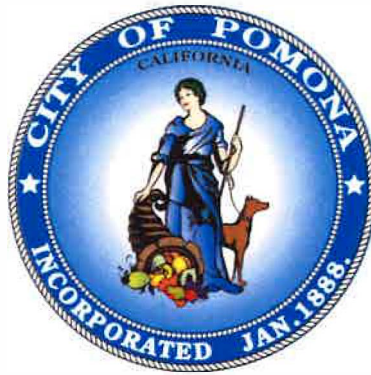


# CITY OF POMONA SEWER SYSTEM MANAGEMENT PLAN

October 2018  
Revised SERP in June 2023



City of Pomona  
Water Resources Department  
148 North Huntington Street  
Pomona, California 91768



*Paul C Garibay*

# Acknowledgements

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The City of Pomona would like to acknowledge the following individuals for their outstanding efforts and contributions, which resulted in the creation of this document. The comprehensive plans included herein reflect the City's on-going commitment to the effective and efficient operation, maintenance and management its wastewater collections system and achieving the City's goals and objectives.

## City of Pomona

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# Acronyms

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|                |   |
|----------------|---|
| <b>BMP</b>     | Best Management Practices                                   |
| <b>CCTV</b>    | Closed Circuit Television                                   |
| <b>CSA</b>     | Compliance Schedule Agreement                               |
| <b>CIP</b>     | Capital Improvement Program                                 |
| <b>CIWQS</b>   | California Integrated Water Quality System                  |
| <b>CMMS</b>    | Computerized Maintenance Management System                  |
| <b>cMOM</b>    | Capacity Assurance, Management, Operations, and Maintenance |
| <b>COD</b>     | Chemical Oxygen Demand                                      |
| <b>CWA</b>     | Clean Water Act   |
| <b>CWEA</b>    | California Water Environment Association                    |
| <b>DEH</b>     | Department of Environmental Health                          |
| <b>EPA</b>     | Environmental Protection Agency                             |
| <b>FOG</b>     | Fats, Oils, and Grease                                      |
| <b>FSE</b>     | Food Service Establishment                                  |
| <b>GIS</b>     | Geographical Information System                             |
| <b>I/I</b>     | Inflow and Infiltration                                     |
| <b>LACSD</b>   | Sanitation Districts of Los Angeles County                  |
| <b>LARWQCB</b> | Los Angeles Regional Water Quality Control Board            |
| <b>LRO</b>     | Legally Responsible Official                                |
| <b>MRP</b>     | Monitoring and Reporting Program                            |
| <b>NASSCO</b>  | National Association of Sewer Service Companies             |
| <b>NPDES</b>   | National Pollutant Discharge Elimination System             |
| <b>O&amp;M</b> | Operations and Maintenance                                  |
| <b>OES</b>     | Office of Emergency Services                                |
| <b>PACP</b>    | Pipeline Assessment Certification Program                   |
| <b>PIO</b>     | Public Information Officer                                  |
| <b>PWRP</b>    | Pomona Wastewater Reclamation Plant                         |
| <b>SSO</b>     | Sanitary Sewer Overflow                                     |
| <b>SCAG</b>    | Southern California Association of Governments              |
| <b>SWRCB</b>   | State Water Resources Control Board                         |
| <b>SSMP</b>    | Sewer System Management Plan                                |
| <b>SSO</b>     | Sanitary Sewer Overflow                                     |
| <b>SERP</b>    | Spill Emergency Response Plan                               |
| <b>WDR</b>     | Waste Discharge Requirements                                |



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# Executive Summary

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On May 2, 2006, the State Water Resources Control Board (SWRCB) adopted Order Number 2006-0003-DWQ, the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDRs), which requires all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate a wastewater collection system greater than one mile in length to develop and implement a system specific Sewer System Management Plan (SSMP). On July 30, 2013, Attachment A to the Order was promulgated and became effective on September 9, 2013, and is known as Attachment A, SWRCB Order No. WQO 2013-0058-EXEC, amending the Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems.

The City of Pomona's (City) 2018 SSMP documents how it manages its wastewater collection system. Pursuant to this Order, each agency must present the Development Plan and Schedule to its governing body at a public meeting prior to certifying the document. The 2018 SSMP was approved by the City Council in October 2018.

The 2018 SSMP was prepared by the City in compliance with the requirements of the WDRs, documents the City's system specific plans and programs to operate, maintain, and manage its wastewater collection system. Goals of the SSMP include:

- Minimizing the frequency and impact of spills;
- Effectively and efficiently mitigating the impacts of spills should they occur;
- Providing adequate sewer capacity to convey peak flows;
- Maintaining and improving the condition of the collection system infrastructure to provide continual reliable service; and
- Engaging and educating the public regarding programs and issues related to the wastewater collection system.

Table ES-1 includes a summary of the mandatory components required by the WDRs and included in the City's 2008 SSMP.

**Table ES-1  
WDR Requirements and Chapter Location**

| <b>WDR Element</b> | <b>Element Description</b>                | <b>Chapter</b> |
|--------------------|---|----------------|
| 1                  | Goals                                     | 2              |
| 2                  | Organization                              | 3              |
| 3                  | Legal Authority                           | 4              |
| 4                  | Operations and Maintenance Program        | 5              |
| 5                  | Design and Performance Provisions         | 8              |
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| 9  | Monitoring, Measurement and Program Modifications       | 11 |
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As in the City’s 2013 SSMP, the updated 2018 SSMP describes each element in detail in the corresponding chapter shown in the Table ES-1. Plans in support of the City’s effort to meet the state requirements and formally document its efforts are included in the appendices. These plans include detailed information regarding the City’s specific policies and procedures to reduce SSOs and manage the wastewater collection system. The plans are included as appendices to facilitate updates to the various programs as they are implemented, refined, and modified.

Pursuant to Sub- Section D. 14 PROVISIONS of the WDRs, the City is required to update the SSMP every five years. That relevant portion of the WDR is as follows:

“...The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the Enrollee is required in accordance with D.14 when significant updates to the SSMP are made. To complete the re-certification process, the Enrollee shall enter the data on the Online Database and mail the form to the State Water Board...”

Hence, to remain compliant, the City has reviewed and updated the 2018 SSMP. Some of the changes include but are not limited to:

1. Updates to Personnel, department name change, and External Organization Contacts
2. Updated System Evaluation and Capacity Assurance Plan.
3. Provided 2017 sewer standard drawings.

This update of the 2018 SSMP satisfies the WDRs requirement.

# Chapter 1

## Introduction

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This Sewer System Management Plan (SSMP) has been prepared in compliance with the requirements of the State Water Resources Control Board, Order 2006-0003 and 2013-0058-EXEC, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDRs). The goal of the WDRs is to provide a consistent statewide approach for reducing Sanitary Sewer Overflows (SSOs). This chapter includes a brief overview of the City of Pomona's (City) service area and wastewater collection system, a summary of the regulations that serve as the impetus for the development of this SSMP, and the purpose and organization of this SSMP.

### 1.1 Service Area and Sewer System

The City of Pomona is located in Los Angeles County approximately 35 miles east of downtown Los Angeles, borders San Bernardino County's western boundary and is just 5 miles north of Orange County. The City encompasses approximately 23 square miles and serves approximately 152,939 residents. The City incorporated in January 1888, became a Charter City in March 1911, and is currently the fifth-largest city in Los Angeles County.

The wastewater collection service area includes incorporated areas within the City limits and a limited area outside the City limits. The City collects and conveys wastewater from the service area for treatment by the Los Angeles County Sanitation Districts (LACSD). Local City sewer mains discharge to several trunk sewers owned and maintained by the LACSD that run through the City.

The City's Distribution/Wastewater Division (newly merged divisions) is responsible for the operation and maintenance of an extensive wastewater collection system and is tasked with ensuring proper and efficient operation of the system. The City provides sewer service throughout the City and to a limited area outside the City limits. The City's wastewater collection system consists of approximately 317 miles of gravity sewer, four (4) pump stations (maintained by LACSD), 1.4 miles of force mains, and 6,360 manholes, and two (2) siphons.

Since the original 2008 SSMP was developed, ownership of the four sewage lift stations have been transferred to the LACSD (Refer to Appendix H). In addition, the force sewer mains from sewage lift station #3 were also transferred and included in the transaction. The sewer lift stations are monitored by LACSD's SCADA system. Prior to the transfer, efficiency improvements were made to each site by the LACSD and then cost were reimbursed by the City once the transfer was completed.

Sewage collected by the City's wastewater collection system is conveyed to the Pomona Water Reclamation Plant (PWRP) for treatment and disposal under the authority of the LACSD. The four pump stations are owned, maintained, and operated by the LACSD under the terms of a new contract that was signed in 2013.

# Introduction

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The City is dedicated to improving the condition and performance of its wastewater collection system and reducing the occurrences of SSOs. Development and implementation of a wastewater collection system operations and maintenance (O&M) program serves to ensure that the wastewater collection system is routinely and properly maintained in a manner that minimizes failures and extends the longevity of the system.

## 1.2 Waste Discharge Requirements

On May 2, 2006, the State Water Resources Control Board (SWRCB) adopted Order 2006-0003, the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDR) which requires all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate a wastewater collection system greater than one mile in length to comply with the elements of the WDRs. On July 30, 2013, Attachment A to the Order was promulgated and became effective on September 9, 2013, and is known as Attachment A, SWRCB Order No. WQO 2013-0058-EXEC, amending the Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems. The WDRs serve to provide a unified statewide approach for reporting and tracking SSOs, establishing consistent and uniform requirements for SSMP development and implementation, establishing consistency in reporting, and facilitating consistent enforcement for violations.

## 1.3 Additional Regulatory Requirements

The Environmental Protection Agency (EPA), in its general pretreatment regulations (40 CFR Part 403) and the City, in its city code (Sec 62-471) , prohibit any user from discharging solid or viscous pollutants, such as FOG wastes, in amounts which will cause obstructions (blockages) to the flow in the wastewater system and interfere with the operation of the wastewater system. As well, the following regulatory requirements establish the impetus for the City to develop a comprehensive SSMP, implement the elements, and follow procedures to minimize the potential of SSOs and demonstrate the proper and efficient management, operation, and maintenance of their wastewater collection systems.

**California Water Code Section 13271, California Code of Regulations:** Section 13271 of the California Water Code, Title 23 of the California Code of Regulations, prohibits the discharge of sewage and hazardous material into the waters of the State and requires the proper notification of authorized agencies in the event of an SSO. Entities which do not properly follow the requirements of this section may be found guilty of a misdemeanor and punished by fine, imprisonment, or both.

**California Waste Discharge Requirements:** On May 2, 2006, the State Water Resources Control Board adopted the Statewide General Waste Discharge Requirements (WDRs) for Sanitary Sewer Systems, Order No. 2006-0003. The WDRs are applicable to all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate wastewater collection systems greater than one (1) mile in length that collect and/or convey untreated or partially treated wastewater to publicly owned treatment facilities in the state of California. Specifically, the WDRs require all affected agencies, municipalities, counties, districts, and other public entities to take a proactive approach to ensure a system-wide operation, maintenance, and management plan is established to effectively reduce the potential,

quantity, and frequency of SSOs that may occur and impact surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.

**Clean Water Act, Section 1251 of Chapter 33 of the United States Code:** In 1972, the federal Congress enacted the Federal Water Pollution Control Act, commonly known as the Clean Water Act (CWA). The CWA prohibits the discharge of pollutants, including sewage, into public waters of the United States. The federal government has the authority to enforce compliance with the CWA via specific permits, such as National Pollutant Discharge Elimination System (NPDES) permits, as well as court action such as administrative orders and consent decrees. The City of Pomona is not currently subject to an NPDES permit or any legal action initiated by the federal government.

### 1.4 Purpose

The City recognizes the importance of preventing sewage spills for the mutual protection of our surface waters and the overall environment to safeguard public health and safety. Therefore, in a proactive approach to achieve WDR compliance, the City has prepared this comprehensive SSMP update. This SSMP update is designed to ensure continuous improvement of system performance, response, monitoring, data recording, and documentation for future system assessments. The City considers the completeness and practicality of a current SSMP a critical component for its long range plans and to comply with all applicable regional, State, and Federal requirements under the Clean Water Act, current Los Angeles Regional Water Quality Control Board (LARWQCB) and the WDRs.

This SSMP update provides a summary of the action plan implemented by the City to comply with the wastewater collection system requirements imposed by the WDRs and other governing agencies. As well, it includes the specific details of the activities and procedures that personnel follow to implement the various programs encompassed in its overall efforts to efficiently manage, operate, and maintain its wastewater collection system and facilitate the reduction and potential elimination of SSOs.

### 1.5 SSMP Elements and Organization

This SSMP has been prepared by the City of Pomona in compliance with the requirements of the SWRCB and adopted WDRs. It includes detailed information demonstrating the City's efforts to comply with each of the mandatory and applicable elements required for its SSMP. The organization of this document is consistent with the SWQCB guidelines. This SSMP is divided into the eleven (11) mandatory elements as follows:

1. Goals
2. Organization
3. Legal Authority
4. Operations and Maintenance Program
5. Design and Performance Provisions

## Introduction

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6. Overflow Emergency Response Plan (OERP)
7. Fats, Oils, and Grease (FOG) Control Program
8. System Evaluation and Capacity Assurance Plan (SECAP)
9. Monitoring, Measurement and Program Modifications
10. SSMP Program Audits
11. Communication Program

Supporting information for each element is included in an appendix associated with the chapter, as applicable. Generally, information expected to require relatively frequent updates are included in appendices, as well as other supporting information, such as forms or schedules.

# Chapter 2

## Element 1 - Goals

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The following sections include a summary of the City's goals that reflect its commitment to continue its effort towards the effective and efficient management, operation and maintenance of the wastewater collection system.

### 2.1 Regulatory Requirement for Goals Element

This first element of an SSMP requires that the City institute goals to provide a plan to properly manage, operate, and maintain all parts of the wastewater collection system. Establishing goals allows the City to effectively and efficiently manage its wastewater collection system to achieve its ultimate goal of reducing and preventing SSOs, and to properly mitigate any SSOs that may occur. To achieve the goals established by the City, it becomes imperative for City staff to consistently maintain quality working procedures and to continue efforts towards identifying and implementing improvements in managing the wastewater collection system.

The WDRs require that the City, at a minimum, develop goals that incorporate and achieve the following:

- Properly manage, operate, and maintain all portions of the wastewater collection system to minimize SSOs;
- Provide adequate capacity to convey peak wastewater flows associated with the design storm event;
- Minimize the frequency and volume of SSOs;
- Mitigate the impacts of SSOs if they occur;
- Meet all applicable regulatory notification and reporting requirements;
- Protection of the public's health and safety;
- Inform and educate the public on programs, projects, and issues related to the wastewater collection system; and
- Implement regular, proactive maintenance of the system to remove roots, debris, and FOG in areas prone to blockage that may cause sewer backups of SSOs.

### 2.2 Goals for City System Maintenance and Management

The City has identified and established several internal goals to assist with instituting comprehensive plans and procedures to properly manage, operate, and maintain the wastewater collection system and to meet all applicable regulatory notification and reporting requirements.



## Goals and Objectives

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Establishing internal core objectives allows City staff to focus on complying with the WDRs, and develop strategies and procedures to achieve successful overall management and maintenance of the wastewater collection system. Goals promote unified efforts towards implementing improvements as they affect the operations, maintenance, and management of the wastewater collection system. They may also reflect performance, safety, levels of service, resource use, and other criteria.

The City's current goal statement, presented in the Fiscal Year 2017/2018 Proposed Operating Budget Users Guide under Enterprise Funds section, states:

“The Sewer Division provides for the safe, effective, and efficient operation of the wastewater collection and conveyance system through maintenance services, engineering services, customer services, and financial oversight. The Division also provides twenty-four hour emergency service in order to respond to system failures, to minimize spills, comply with regulatory mandates, and ensure the public's health and safety”.

This Sewer Division's goal statement is itemized as follows, in no particular order:

- Conduct a well-organized and comprehensive operations and maintenance program
- Minimize the potential for and occurrence of SSOs
- Comply with all regulatory requirements
- Ensure the public's health and safety
- Provide appropriate staffing
- Acquire appropriate funding

To achieve further WDR compliance, the City is incorporating similar core objectives into its overall goal statement to include:

- Manage an effective Fats, Oils, and Grease (FOG) Control Program
- Ensure adequate capacity to convey peak wastewater flows
- Maintain a long-term and capital improvements plan
- Inform and educate the public on programs, projects, and issues related to the wastewater collection system

With incorporation of the objectives listed above, the City's goal statement is summarized as follows:

To provide safe, effective, and efficient operation of the City's wastewater collection and conveyance system through:

- Proper management, operation, and maintenance of all parts of the sanitary sewer system owned or operated by the City, and shall ensure that the system

operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities

- Establish Key Performance Indicators to measure compliance:
  - Four (4) SSO's per 100 mile of collection systems is a good goal;
  - Establishing a response time of 20 minutes during working hours, and 45 minutes during after-hours and weekends
- Taking reasonable steps and attempt to provide feasible alternatives to the reduction and mitigation of SSOs, including:
  - Temporary storage or retention of untreated wastewater. With the relocation of the annex facilities, the First Street facility will have an area designated for storage
  - Reduction of inflow and infiltration. In an upcoming red flags construction contract, a bid option will address rehabilitation and/or replace specific manholes in the Phillips Ranch area wherein water is suspected to be infiltrating.
  - Use of adequate backup equipment. Collecting and hauling of untreated wastewater to a treatment facility or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP
- An effective FOG control program
- Assurance of adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the City's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the City.
- A current long-term and capital improvement plan
- The City shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices.
- The City will provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the City's *System Evaluation and Capacity Assurance Plan* for all parts of the sanitary sewer system owned and operated by the City.
- Compliance with all regulatory requirements:
  - Acquiring the continuous training on existing and upcoming training for Staff
- Protection of the public's health and safety

## Goals and Objectives

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- The City shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:
  - Interception and re-routing of untreated or partially treated wastewater flows around the wastewater line failure
  - Vacuum truck recovery of spills and wash down water
  - Cleanup of debris at the overflow site
  - System modifications to prevent another SSO at the same location
  - Adequate sampling to determine the nature and impact of the release; and
  - Adequate public notification to protect the public from exposure to the SSO. The department has signs to post at a spill site.
  
- Effective Communication Program efforts:
  - Distribute material during city sponsored events
  - Provide material on City website
  - Provide best management practices through social media outlets
  - Obtaining and distributing publications that emphasize the importance of good disposal practices in Spanish and English

The City's goals reflect the comprehensive efforts of City staff to be unified and effective stewards of their customers' assets by efficiently and economically operating, maintaining, and managing the City's wastewater collection system.

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# Chapter 3

## Element 2 - City Organization

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An organizational chart for the City's Water Resources Department (formerly the Water/Wastewater Operations Department) serves to identify the administrative, maintenance, and management positions responsible for implementing, managing, and updating the overall measures in this SSMP Program. This chapter identifies the City staff that is responsible for implementing the SSMP, responding to SSO events, and meeting the SSO reporting requirements.

The communication plan that accompanies the organizational chart serves to identify the positions responsible for implementing specific elements of this SSMP and define the role of each position to ensure that all elements of this SSMP are addressed on a regular basis and that all appropriate staff is properly informed. In addition, a specific communication plan to document the *Spill Emergency Response Plan* (SERP) was developed and is included in Appendix D. The communication plan identifies the staff positions responsible for managing the spills response, investigating the spills cause, and reporting the spills to the appropriate parties. It also provides a consolidated list of contact information of key personnel with regard to spills. The sequence of communication for reporting spills, and the appropriate staff to be notified, must be clearly delineated in the organization structure.

### 3.1 Regulatory Requirements for the Organization Element

It is required that the City's SSMP clearly identify the staff responsible for implementing measures outlined in this SSMP. The WDRs require that the City identify the following:

1. The name of the responsible or authorized representative;
2. The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP Program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
3. The chain of communication for reporting Spills, from receipt of a complaint or other information, including the persons responsible for reporting Spills to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

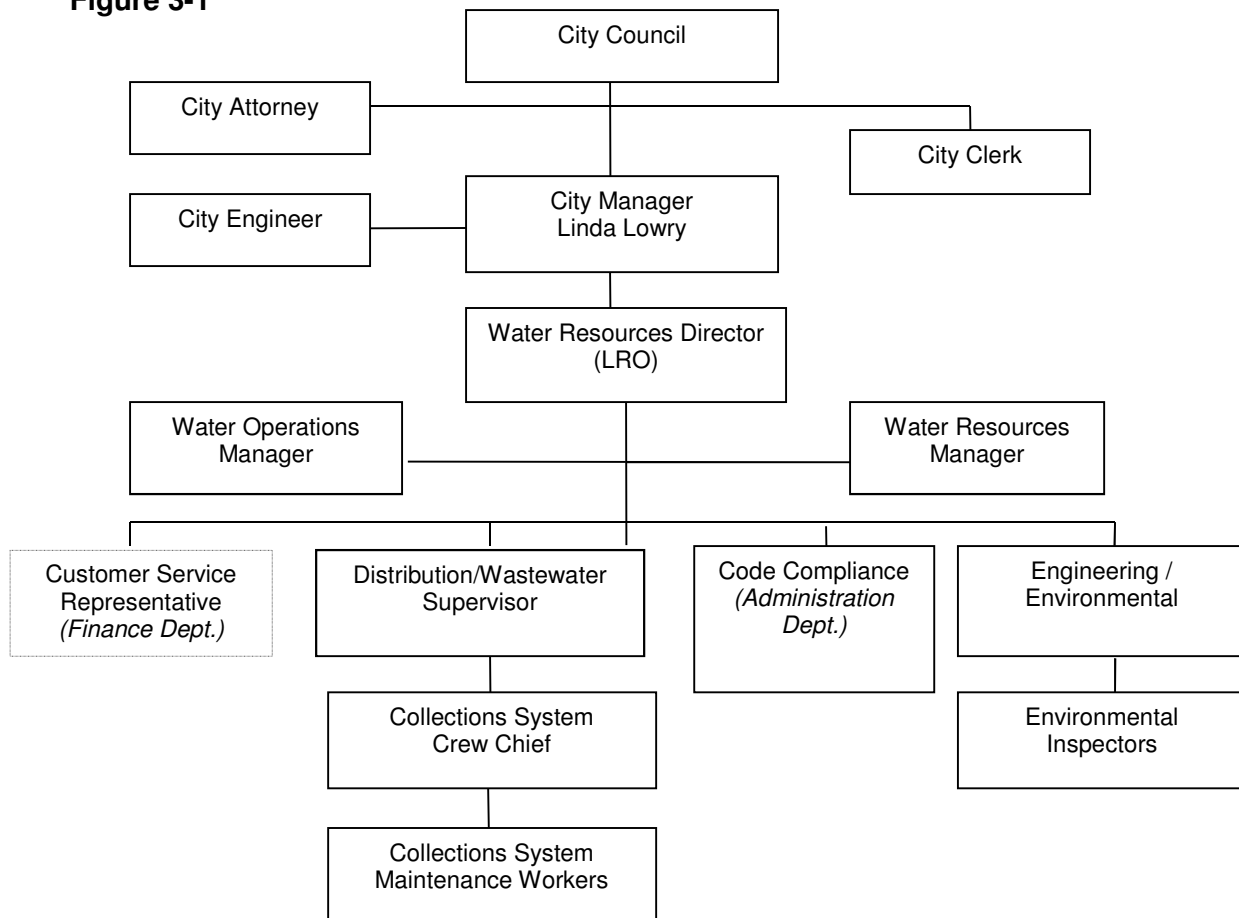
## 3.2 Discussion on Organizational Structure

The City's organizational structure for the Water Resources Department staff responsible for implementing and overseeing the SSMP program are described in the following subsections. Additionally, the general responsibilities of the personnel and chain of communication is included.

### 3.2.1 Governance

The City operates under the Council-City Manager form of government as shown in Figure 3-1. The City's elected governing body consists of a Mayor and six (6) district council members. The Mayor is the presiding officer of the City Council and is elected at-large. Each council member is nominated by, and represents, the district in which he or she lives. The City Manager serves as the chief administrative officer of the City and is directly responsible to the Mayor and City council for the efficient and effective administration and daily operations of all City functions. The Council must certify the completed SSMP and ultimately share the responsibility that the wastewater collection system is managed efficiently.

**Figure 3-1**



## City Organization

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|  |  |
|--|--|
| <b>City Council</b>                                | Establishes policies, reviews and accepts formal plans, sets overall City direction, authorizes funds for projects/plans/programs, general overview of upper management (Mayor, City Manager, City Attorney), conducts public meetings and hearings, approves SSMP.  |
| <b>City Attorney</b>                               | The City's attorney develops and approves legal documents, provides legal advice, conducts litigation, and attends public meetings.  |
| <b>City Clerk</b>                                  | Responsible to maintain City Codes, records management, election services, and claims for the City.  |
| <b>City Manager</b>                                | Responsible for the day-to-day management and operation of the City under the direction of the City Council. Specifically the City Manager establishes procedures, plans strategy, leads staff, allocates resources defined in the City budget, delegate's responsibility, authorizes outside contractor to perform services, and serves as overall public information officer.  |
| <b>Water Resources Director</b>                    | Responsible for the management and operation of the Water Resources Department, including the operation and management of the sanitary sewer system. This position reports to the City Manager. <b><u>Typically is the LRO for the City.</u></b>   |
| <b>City Engineer</b>                               | Responsible for the development and implementation of city design and construction standards. Provides engineering drawings, plans, and specifications for projects within the City (former LRO).  |
| <b>Water Operations Manager</b>                    | Responsible for oversight and management of the work of water and sanitary sewer system including Collections System staff and implementation of the WDR.  |
| <b>Water Resources Manager</b>                     | Responsible for oversight and management of the Engineering and Environmental staff, including implementation of the WDR.  |
| <b>Distribution/<br/>Wastewater<br/>Supervisor</b> | Responsible for the operation and maintenance activities of the sanitary sewer system and distribution, including direct supervision and scheduling of all maintenance crews, and regularly scheduling maintenance activities. Coordinates field operations, and prepares and implement overflow emergency response plan, leads emergency response, investigates and reports Spills, and trains maintenance workers and field crews. |
| <b>Engineering /<br/>Environmental</b>             | Responsible for Capital Improvement, assists in the operational activities of the water and wastewater operations; responsible for stormwater, water conservation, energy efficiency, FOG, and implementation of the WDR.  |



|   |  |
|---|--|
| <b>Wastewater Collections Crew Chief</b>      | Responsible for the maintenance, repair, installation, and construction of the wastewater collection system, and performs a variety of technical tasks relative to assigned areas of responsibility.   |
| <b>Collections System Maintenance Workers</b> | Staff preventative maintenance activities, report condition of City assets, mobilize and respond to notification of stoppages and Spills, and mobilize sewer-cleaning equipment and by pass pumping equipment.                                   |
| <b>Customer Service Representative</b>        | Responsible for receiving maintenance calls and complaints and dispatching maintenance workers to perform emergency operations. Also responsible for initiating records within the agencies tracking system for Spills and other related events. |
| <b>Environmental Inspectors</b>               | Responsible for stormwater compliance, including inspections of Industrial/Commercial Facilities, Construction sites, and the proposed FOG inspections.  |

### 3.2.2 Sewer Utility Organization

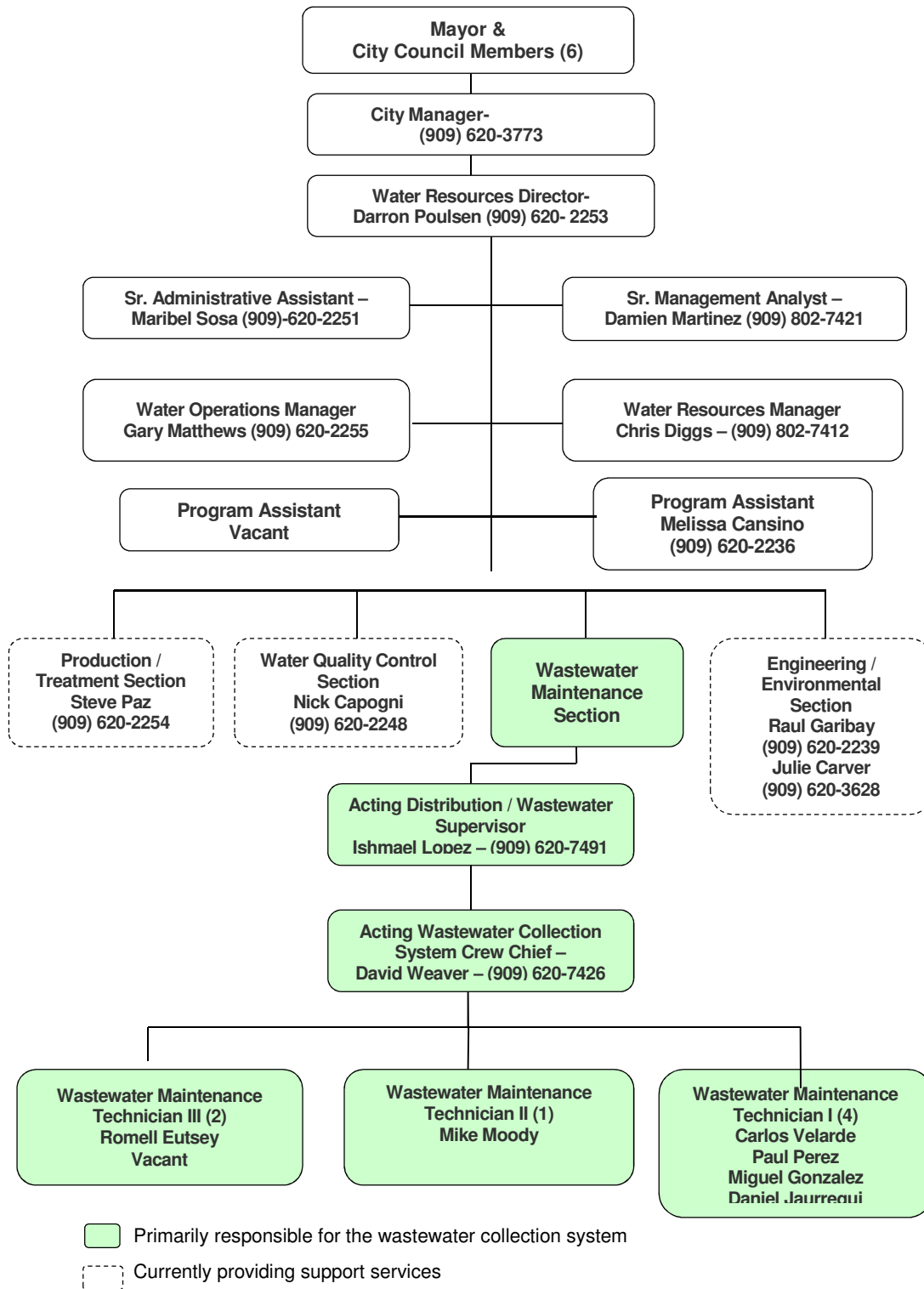
The Water Resources Director reports directly to the City Manager. The Water Operation Manager, who reports to the Water Resources Director, oversees two (2) sections, one (1) of which is the Distribution/Wastewater Collection System Maintenance Section. All nine (9) full time positions identified are necessary for the maintenance and operation of the wastewater collection system, are currently staffed. In addition to the staff within the Distribution/Wastewater Collection System Maintenance Section, staff from other Water Resources Operations sections, such as the Engineering/Environmental Section, Water Quality, and Production/Treatment Section, as well as continual administrative support, provide some staff time in support of the Wastewater Collection System Maintenance Section.

The organizational chart presented in Figure 3-2 shows the positions and sections within the City's current organization responsible for concurrently implementing and managing various plans and procedures required to satisfy the elements of the SSMP, including responding, reporting, and certification of SSOs and this SSMP.

Highlighted on the organizational chart are the current fiscal year's budgeted positions in the Wastewater Maintenance Section, the section that is primarily responsible for operating and maintaining the wastewater collection system. Examples of functions provided by these sections include engineering and system mapping assistance, permit oversight, and heavy construction support. Although they fall under the Water Operation Manager's authority, Production/Treatment Sections do not support the wastewater collection system, and therefore are not shown on this chart. Water Quality section is under the Water Resources Manager's authority, and are also not shown on this chart. Also not shown are other divisions that provide services to the wastewater collection efforts. Equipment maintenance and contract services are examples of those services paid for by the Wastewater Maintenance Section but performed elsewhere within the City for efficiency purposes.

# City Organization

**Figure 3-2  
Organizational Chart of Positions Supporting the Wastewater Collection System**



### 3.2.3 Description of General Responsibilities

The following information provides a brief summary of the roles and responsibilities for City staff supporting the Wastewater Collection System as illustrated in Figure 3-2.

#### **City Manager**

Under the administrative direction from the City Council Members, the City Manager plans and manages the affairs of the City and directs the staff in all functions and operations. The City Manager implements the council's policy and programs with employees, community organizations, and the general public. The City Manager reviews budget requests and makes recommendations to the council on final expenditure levels, manages all labor/management activities, and performs all related work as required.

The City Manager serves as the chief administrative officer and is directly responsible to the Mayor and City Council for the efficient and effective administration and daily operation of all City functions. The City Manager makes policy and procedural recommendations to the City Council and is responsible for implementing the final directives of the City Council. The City Manager's office includes, in addition to the City Manager, the Assistant to the City Manager and several support personnel.

#### **Water Resources Director**

Under general administrative direction, to plan, direct, manage, and oversee the activities and operations of the Water Resources Department including water distribution, water production, water quality control, engineering, environmental and wastewater collection; to coordinate assigned activities with other City departments and outside agencies; and to provide highly responsible and complex management support to the City Manager.

Assume full management responsibility for all Water Resources Department services and activities including water distribution, water production, water quality control, wastewater collection, and the warehouse. Manage the development and implementation of Water Resources Department goals, objectives, policies, and priorities for each assigned service area; establish within City policy, appropriate service and staffing levels; allocate resources accordingly. Continuously monitor and evaluate the efficiency and effectiveness of service delivery methods and procedures; assess and monitor work load, administrative and support systems, and internal reporting relationships; identify opportunities for improvement; direct the implementation of changes. Represent the Water Resources Department to other City departments, elected officials and outside agencies; explain and interpret Department programs, policies, and activities; negotiate and resolve sensitive, significant, and controversial issues. Select, train, motivate, and evaluate Water Resources Department personnel; provide or coordinate staff training; work with employees to correct deficiencies. Coordinate Water Resources Department activities with those of other departments and outside agencies and organizations. Plan, direct, coordinate the Water Resources Department work plan; meet with management staff to identify and resolve problems; assign projects and programmatic areas of responsibility; review and evaluate work methods and procedures. Respond to and resolve difficult and sensitive inquiries and complaints. Manage and participate in the development and administration of the Water Resources Department budget; direct the forecast of additional

## **City Organization**

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funds needed for staffing, equipment, materials, and supplies; direct the monitoring of and approve expenditures; direct and implement adjustments as necessary. Serve as a liaison for the Water Resources Department with other City departments, divisions, and outside agencies; negotiate and resolve significant and controversial issues. Provide staff assistance to the City manager and City Council; prepare and present staff reports and other necessary correspondence. Coordinate contracts for capital improvements, consultant agreements, and intra-agency documents. Manage and administer the water and sewer master plans, standards, specifications, and other documents; recommend changes and corrections as needed. Consult with the Engineering Division in the development and implementation of water and sewer capital improvement projects. Participate on a variety of boards and commissions; attend and participate in professional group meetings; stay abreast of new trends and innovations in the field of water and wastewater. Perform related duties and responsibilities as assigned

### **City Engineer**

Under administrative direction, to direct, manage, supervise and coordinate the programs and activities of the Engineering Division within the Public Works Department including research, survey, design, permitting, construction management, inspection of site/subdivision development, traffic, transportation, and capital projects; to coordinate assigned activities with other City departments, divisions, and outside agencies; and to provide highly responsible and complex administrative support to the Public Works Director.

Assume management responsibility for all Engineering Division programs and activities including research, survey, design, permitting, construction management, inspection of site/subdivision development, traffic and transportation, water, wastewater, and capital projects. Administer the City's capital improvement program; work with City departments and division staff to identify and prioritize needs; formulate cost estimates and develop implementation strategy. Review and recommend approval of plans and specifications, designs, cost estimates, environmental documents, reports and studies for all engineering projects. Administer the supervision and monitoring of the work of all consulting engineers; verify and approve all contractors' work estimates, payment requests, and change orders; perform site inspections during construction for adherence to specific methods and materials and to ensure compliance with regulations for system safety or design. Manage and participate in the development and implementation of goals, objectives, policies, and priorities for Engineering Division programs; recommend, within Departmental policy, appropriate service and staffing levels; recommend and administer policies and procedures.

### **Senior Administrative Assistant**

Under the direction and supervision of the Water Resources Director, the Senior Administrative Assistant performs secretarial, receptionist and administrative tasks, some of which are complex and confidential in nature. The Senior Administrative Assistant provides technical assistance to the general public and public agencies regarding implementing City procedures for development review and permit issuance.

### **Water Operations Manager**

Under administrative direction and supervision of the Water Resources Director, the Water Operations Manager provides direction, manages, supervises, and coordinates operations, programs, and activities of the Water and Wastewater Operations Division including water distribution, water production, and wastewater collection; coordinates assigned activities with other City departments, divisions, and outside agencies; and to provide highly responsible and complex administrative support to the Water Resources Director.

The Water Operations Manager assumes management responsibility for operations, programs, and activities of the Water and Wastewater Operations Division including water distribution, production and treatment and wastewater collection; manages and participates in the development and implementation of goals, objectives, policies, and priorities for water and wastewater programs; recommends, within Departmental policy, appropriate service and staffing levels; recommends and administers policies and procedures; continuously monitor and evaluates the efficiency and effectiveness of service delivery methods and procedures; assesses and monitors work load, administrative and support systems, and internal reporting relationships; identify opportunities for improvement and review with the Water Resources Director; directs the implementation of improvements; selects, trains, motivates, and evaluates assigned personnel; provides or coordinates staff training; works with employees to correct deficiencies; and plans, directs, coordinates, and reviews the work plan for the Water and Wastewater Operations Division; meets with staff to identify and resolve problems; assigns work activities, projects, and programs; monitors work flow; and reviews and evaluates work products, methods, and procedures.

### **Water Resources Manager**

Under general direction, supervise, plan, and oversee City-wide water resource planning, environmental management, water and power conservation, related CIP project development and implementation, provide administrative and technical support, grant administration, budget management and environmental programs. Represent the City at outside meetings as assigned.

The Water Resources Manager assumes management responsibility for Department's engineering, environmental, water and energy conservation, storm water, and administrative programs and activities including research, design, permitting, and construction management. Continuously monitor and evaluate the efficiency and effectiveness of service delivery methods and procedures; assess and monitor work load, administrative and support systems, and internal reporting relationships; identify opportunities for improvement; direct the implementation of changes. Coordinate contracts for capital improvements, consultant agreements, and intra-agency documents. Manage and administer the water and sewer master plans, standards, specifications, and other documents; recommend changes and corrections as needed. Manage and participate in the development and administration of the Department budget, rates, and fees; forecast the need for additional funds for staffing, equipment, materials, and supplies; direct the monitoring of and approve expenditures; direct and implement adjustments as necessary. Represent the Water Resources Department to other City departments, elected officials and outside agencies; explain and interpret Department programs, policies, and activities; negotiate and resolve sensitive, significant, and controversial issues as assigned by the Director. Serve as a liaison for the Department, and coordinate with other City departments, divisions, and outside agencies; negotiate and resolve significant and controversial issues. In

## **City Organization**

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the Directors absence, or as assigned, participate on a variety of boards and commissions; attend and participate in professional group meetings; stay abreast of new trends and innovations in the field of water and wastewater. Plan, direct, and coordinate Department projects and operations, meet with management staff to evaluate work methods and procedures and identify and resolve problems within the assigned area of responsibility. Respond to and resolve difficult and sensitive inquiries and complaints. Select, train, motivate, and evaluate assigned Department personnel; provide or coordinate staff training; work with employees to correct deficiencies. Establish, maintain, and foster positive and harmonious working relationships with those contacted in the course of work. Perform related duties and responsibilities as assigned.

### **Supervising Water Resources Engineer**

Under general direction, to supervise, plan, and coordinate the activities and operations of the assigned programs and projects in the Engineering Division; to coordinate assigned activities with other divisions, outside agencies and the general public; and to provide highly responsible and complex staff assistance to Assist in the operational activities of the Water and Wastewater Operations Division as well as direct the activities of the Engineering Section of the Water and Wastewater Operations Division. Assist in the protection and administration of the City's water rights and resources; develop and maintain accounting systems for water use and storage; represent the City on various water resource committees. Establish and maintain beneficial working relationships with other retail water purveyors, governmental agencies, private firms, organizations or individuals to assist in achieving City objectives and ensuring compliance with appropriate technical standards affecting various activities and projects. Develop water resources policy positions for the Department; represent those views in all forums. Assist in selecting, training, motivating and evaluating assigned personnel; provide or coordinate staff training; work with employees to correct deficiencies. Perform research and conduct field work in the preparation of specifications, estimates and requests for proposals for the construction of a wide variety of projects related to water systems and/or special studies regarding water resources planning utilizing necessary information forecast the short, mid and long-range water resource needs of the City and propose appropriate implementation plans to insure the needs are met. Supervise and participate in the development and implementation of goals, objectives, policies, and priorities for the Water and Wastewater Capital Improvements Program; work with City departments and division staff to identify and prioritize needs; formulate cost estimates and develop implementation strategy; plan future projects and administer long range projects to achieve department goals; identify resource needs; recommend and implement policies and procedures. Supervise, direct, coordinate, and review the work plan for the Water and Wastewater Capital Improvements Program; meet with staff to identify and resolve problems; assign work activities and projects; monitor work flow; review and evaluate work products, methods and procedures. Perform the full range of professional engineering duties involved in the design, planning, and implementation of water and wastewater systems; serve as project engineer on construction projects; coordinate the design and construction facilities with consulting engineers; prepare and review construction plans and specifications for conformance with City standards, regulatory standards and industry standards; prepare preliminary and final estimates of work and material required. Supervise and monitor the work of consulting engineers; verify and approve contractor's work estimates, payment requests, and change orders; perform site inspections during construction for adherence to specific methods and materials. Oversee the timely review of private sector developers', engineers', architects',

contractors', and owners' plans for conformance with the City standards, policies, and codes. Insure the prompt review of various plans from a water resource and supply perspective; provide appropriate feedback and follow-up as appropriate. Identify opportunities for improving service delivery methods and procedures; review with appropriate management staff; implement improvements. Forecast additional funds needed for staffing, equipment, materials, and supplies; direct the monitoring of and approve expenditures; recommend adjustments as necessary. Coordinate assigned services and activities, including maintenance activities and rehabilitation of infrastructure, with those of other divisions, outside agencies and organizations, and the general public. Provide staff assistance to the Water Resources Director; prepare and present staff reports and other necessary correspondence; present information to the City Council in a public forum. Respond to and resolve difficult inquiries and complaints; conduct informational and public meeting / hearings. Participate in the selection of contract services; perform contract negotiations. Participate in responding to litigation, negotiations for right-of-ways, and other matters under the direction of the legal department. Attend and participate in professional group meetings; stay abreast of new trends and innovations in the field of civil engineering.

### **Environmental Programs Supervisor**

Under direction, to coordinate, direct, and implement the City's water conservation program, energy efficiency strategy, stormwater compliance program, and water and wastewater programs such as FOG, water audits, and consumer confidence reports.

### **Sr. Management Analyst**

Under direction, to perform journey level budgetary, financial, administrative and analytical support duties for an assigned department and/or division; to oversee assigned administrative processes, procedures and programs; and to provide highly technical and responsible assistance to assigned department and/or programs.

### **Customer Service Representative**

Under immediate supervision (in 2017 transferred to the Finance Department) or general supervision, to perform a wide variety of customer service duties in support of the City's water and sanitation programs; to process service orders for a variety of water / sanitation services; and to respond to and resolve inquiries and complaints from the public.

Prepare and process service orders for various City services including water turn-ons and turn-offs, water meter installations, new billing accounts, and discontinuance of accounts. Request verification of meter reads; process paperwork for changes to incorrect bills; authorize credit extensions for customers with past due bills; verify payment of bills and current service status; perform credit and collection duties. Provide assistance to citizens with inquiries and complaints; answer customer complaints regarding charges, delinquencies and refunds; identify customer service problems and conduct research; prepare work orders for field maintenance staff; dispatch field staff as necessary; communicate results to customer. Issue new work orders to contractors for renting construction meters, setting up accounts, verifying reads on outgoing and returning meters to begin bill process or close account to generate closing bill and refund deposit.

# **City Organization**

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## **Distribution / Wastewater Supervisor**

Under general direction to manage, supervise, assign, review, coordinate and participate in the work of staff responsible for potable/recycled water distribution and wastewater collection systems construction, maintenance, and operations.

The Distribution/Wastewater Supervisor has the ability to analyze complex water distribution, treatment, sewer collections, and stormwater system maintenance problems, evaluate alternatives, recommend the most effective course of action, and implement that action.

Distribution/Wastewater Supervisor must possess Grade 4 Collection System Operator and D2 Distribution System Operator Certifications or Grade 2 Collection System Operator and D5 Distribution System Operator Certifications issued by California Water Environment Association and State Water Resources Control Board respectively.

## **Wastewater Collection System Crew Chief**

Under general direction of the Distribution/Wastewater Operations Supervisor, the Wastewater Collection System Crew Chief leads, oversees, and participates in the more complex and difficult work of staff responsible for the maintenance, repair, installation, and construction of the wastewater collection system and associated appurtenances; and performs a variety of technical tasks relative to assigned areas of responsibility.

A Wastewater Collection System Crew Chief possesses a Grade III Collection System Maintenance Certification from the California Water Environment Association and has seven years of experience in performing journey level work in the construction, maintenance, and repair of sanitary sewers.

## **Wastewater Maintenance Technician III**

Under immediate supervision or direction of the Wastewater Collection System Crew Chief, a Wastewater Maintenance Technician III performs wastewater collection system cleaning and obstacle clearing work; participates in construction, maintenance, and repair of sanitary sewers; conducts CCTV video inspections of sewer lines; and operates vehicles, light and medium construction equipment, and other specialized equipment.

A Wastewater Maintenance Technician III possesses a Grade II Collection System Maintenance Certification from the California Water Environment Association and has three years of experience as a Wastewater Maintenance Technician II.

## **Wastewater Maintenance Technician II**

Under immediate supervision or direction of the Wastewater Collection System Crew Chief, a Wastewater Maintenance Technician II performs wastewater collection system cleaning and obstacle clearing work; participates in construction, maintenance, and repair of sanitary sewers; conducts CCTV video inspections of sewer lines; and operates vehicles, light and medium construction equipment, and other specialized equipment.



A Wastewater Maintenance Technician II possesses a Grade I Collection System Maintenance Certification from the California Water Environment Association and has three years of experience as a Wastewater Maintenance Technician I.

**Wastewater Maintenance Technician I**

Under immediate supervision of the Wastewater Collection System Crew Chief, a Wastewater Maintenance Technician I performs wastewater collection system cleaning and obstacle clearing work; participates in construction, maintenance, and repair of sanitary sewers; conducts CCTV video inspections of sewer lines; and operates vehicles, light and medium construction equipment, and other specialized equipment.

A Wastewater Maintenance Technician I is required to obtain a Grade I Collection System Maintenance Certification from the California Water Environment Association within one year of employment.

As the various elements of this SSMP are updated, modified, and further refined, the organizational chart will be revised to reflect the correlation between staff positions that support the Wastewater Maintenance Section activities. Additionally, the organization chart may evolve to clearly delineate changes and additions to positions for activities implemented to successfully execute this SSMP. This may include some restructuring of chains-of-command to better align responsibilities and the ability of staff to comply with the WDRs.

**3.2.4 Authorized Representatives**

As of October, 2013, the Water Resources Director, Darron Poulsen will be the City’s Legally Responsible Official (LRO) and authorized representative registered with the State of California to officially sign and certify SSO reports submitted via the California Integrated Water Quality System (CIWQS). The City has also identified the following staff as alternate LROs:

|                      |   |                |
|----------------------|---|----------------|
| Darron Poulsen       | Water Resources Director                | (909) 620-2253 |
| Raul Garibay         | Supervising Water Resources Engineer    | (909) 620-2239 |
| Ishmael Lopez        | Distribution/Wastewater Supervisor      | (909) 620-7491 |
| <u>Proposed LROs</u> |   |                |
| Gary Matthews        | Water Operations Manager                | (909) 620-2255 |
| Chris Diggs          | Water Resources Manager                 | (909) 802-7412 |
| David Weaver         | Wastewater Collection System Crew Chief | (909) 620-7491 |
| Nick Capogni         | Water Quality Supervisor                | (909) 620-2248 |

**3.3 Discussion on Communication Structure**

Communication of activities is important in order to keep managerial staff informed of successes and potential problems. Additionally, implementation of the various elements of the SSMP will require constant coordination between the various sections identified in the organization chart. Therefore, clearly identifying the specific positions and staff as well as establishing communication protocols is necessary to ensure the appropriate personnel are properly informed to respond to wastewater collection system related issues in the most effective and efficient manner.

## City Organization

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A communication structure related specifically to Spills reporting is more thoroughly documented in Chapter 7 and Appendix D, which address the City's Spill Emergency Response Plan (SERP).

### 3.3.1 SSMP Communication Structure

Continual communication among the Water Resources Department sections as well as along the levels of hierarchy facilitates and supports activities that allow the Distribution/Wastewater Maintenance Section to manage, operate, and maintain the City's wastewater collection system and ensures that the appropriate staff is kept informed.

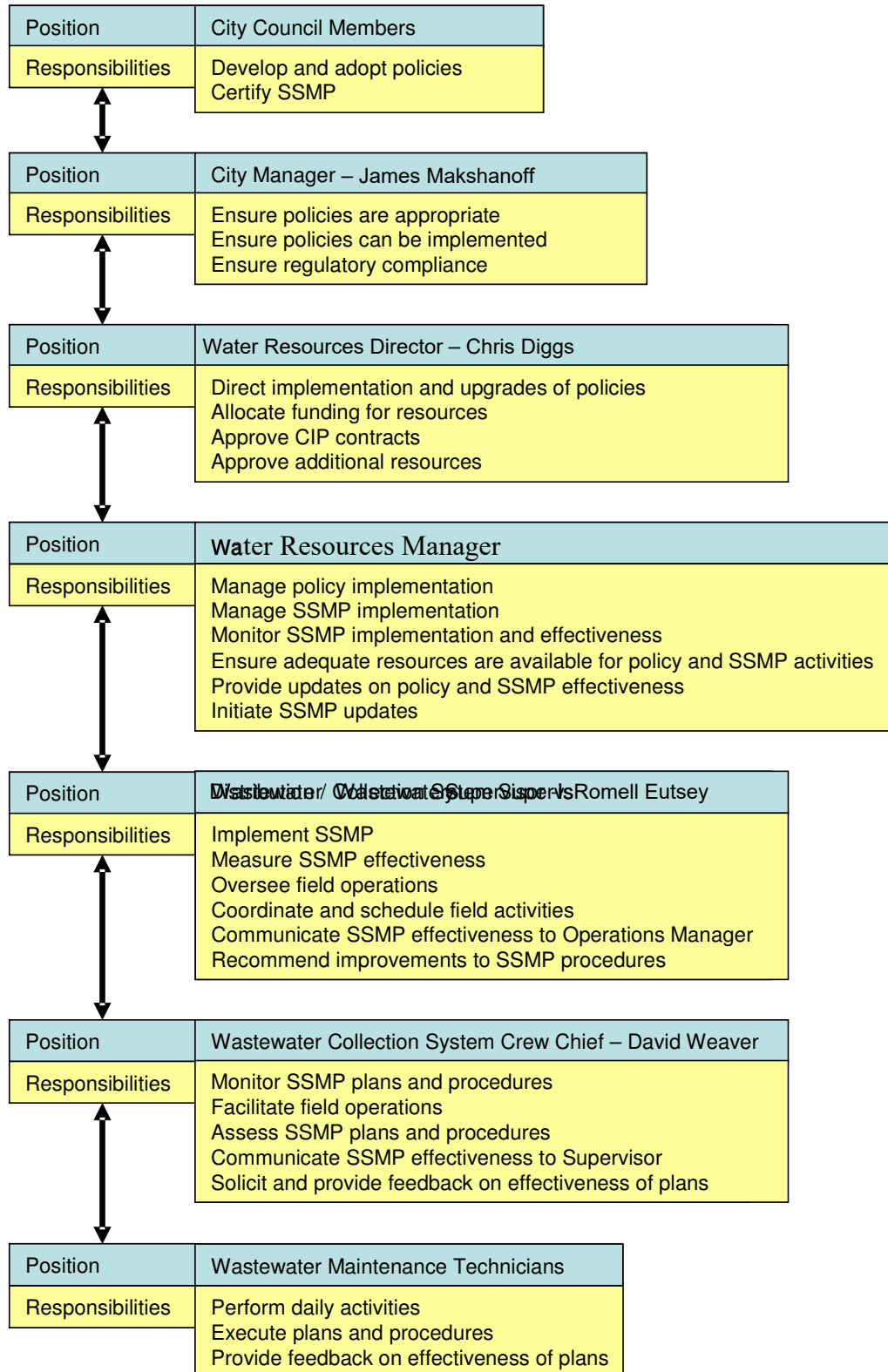
Generally the communication plan follows the chain of command identified in the organizational chart. Specific levels of authority are required to facilitate implementation and enforcement of the various plans and procedures developed and included in this SSMP. As the various plans and procedures are implemented, an assessment as to the effectiveness of the plans will best be determined by the labor force that executes and evaluates the immediate impacts of the plans and procedures. Efficient and timely response is essential to ensure that the adopted plans and procedures are effective for the management and operation of the wastewater system. Therefore, an established communication protocol and a chain of command between sections and levels within the City organization that includes clearly defined roles and responsibilities for each staff position included in the communication plan is imperative. Figure 3-2 provides a summary of the general responsibilities among the staff as it affects the management, operation, and maintenance of the City's wastewater collection system. The responsibilities listed are to illustrate the overall importance of continual communication among the organization regarding wastewater related issues.

Identifying the appropriate City staff and establishing a communication plan is necessary to ensure the efficient and timely response to facilitate the effective enforcement, monitoring, and management of the various SSMP elements.

### 3.3.2 Spill Communication Structure

The communication structure for responding to an Spill is also discussed in further detail in Chapter 7 and Appendix D of this SSMP. Appendix D of this SSMP includes a copy of the City's SERP which contains detailed information pertaining to the City's Spill response procedures. Also included in the SERP are the communication protocol, names, and telephone numbers for City staff required to respond, and a general description of the responsibilities for City staff responding to Spills.

**Figure 3-3  
Communication Plan for SSMP Implementation**



### 3.4 Summary and Continuing Efforts

As the plans and procedures are updated and further refined and revisions and/or updates to this SSMP are performed, staff positions responsible for implementing the various elements of this SSMP should be updated as necessary as well as the specific responsibilities associated with each position. To maintain compliance with the WDRs, the City's organizational chart should reflect the administrative, maintenance, and management positions responsible for implementing, managing, and updating the overall measures contained in this SSMP.

Maintaining efficient and timely communication regarding the implementation and effectiveness of these plans and procedures is essential to ensure proper management and operation of the wastewater system. This communication plan presented here indicates the chain-of-command communication that should occur between the specific staff positions as well as defines each position's role and responsibilities for the successful operation of the wastewater collection system.



# Chapter 4

## Element 3 - Legal Authority

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This chapter of the SSMP includes a discussion of the City's legal authority, including its city code and agreements with cities and agencies for the conveyance, treatment, and disposal of wastewater.

### 4.1 Regulatory Requirement for Legal Authority Provisions

The WDRs require that the City show, through collection system use ordinances, service agreements, or other legally binding procedures, that the City possesses the legal authority to:

- Prevent illicit discharges into its wastewater collection system including, but not limited to, inflow and infiltration, storm water, chemical dumping, unauthorized debris, and cut roots, etc.;
- Require that sewers and connections be properly designed and constructed;
- Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the City;
- Limit the discharge of fats, oils, grease, and other debris that may cause blockages; and
- Enforce any violation of its sewer ordinances.

### 4.2 City's Legal Authority Provisions

The City's current legal authority is established through existing codes, regulations, ordinances, and permitting procedures that allows the City to require and enforce various measures for ensuring the proper and efficient operation, management, and maintenance of the City's wastewater collection system. These mechanisms include, but are not limited to, limiting the types of substances allowed to be discharged into the City's wastewater collection system, establishing requirements for the proper design, construction and connections to the City's collection system, ensuring access to City sewer pipelines for maintaining, inspecting and repairing the system, limiting the discharge of fats, oils, grease, and other types of debris that cause blockages, and enforcing violations of its sewer related ordinances, codes, and laws. The city code sections currently governing the City's wastewater collection system are included for reference in Appendix A, Excerpts from City of Pomona City codes.

### 4.3 Background for Legal Authority

A vital component in preventing SSOs requires that the City have comprehensive policies and procedures that encompass, but are not limited to, the permitting, design, construction, inspection, monitoring, and enforcement of policies as they pertain to the City's wastewater collection system. To implement the various elements required to prevent SSOs to the

## **Legal Authority**

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maximum extent possible and meet state and federal requirements, the City must ensure that its existing codes, policies and procedures are such that the requirements necessary to require, implement, and fulfill the specific City needs are encompassed.

The City has codified several ordinances related to the wastewater collection system in the City of Pomona City codes in Chapter 62, titled Utilities, under Article V, titled Sewage Disposal. In addition, the City has executed various agreements with cities and agencies adjacent to the City for the conveyance, treatment, and disposal of wastewater. These agreements are approved by the City Council. Examples of these agreements include the agreement with Los Angeles County Sanitation District No. 21 to operate and maintain the four (4) pump stations within the City's boundaries, agreements to accept wastewater from adjacent communities, and agreements to send small amounts of wastewater to other agencies for conveyance and disposal. As mentioned before, the sewer lift station transfer agreement is located in Sewer Lift and Force Main Transfer, Appendix H.

Additionally, the California Water Code Section 13271 of the California Code of Regulations, the Clean Water Act, Section 1251 of Chapter 33 of the United States Code, and the California Waste Discharge Requirements serve to ensure the City establishes the necessary codes, agreements, policies, and procedures to provide the City the legal authority to require and enforce the necessary requirements.

### **4.4 Summary and Evaluation of the City's Existing Legal Authority**

The City's legal authority and powers are established in the City of Pomona City code and provide the necessary measures to facilitate the control of inflow and infiltration (I/I); require proper design, construction, installation, testing, and inspection of new and rehabilitated sewers and laterals; control the discharge of FOG; and enforce violation of ordinances. Additionally, it allows the City to promote and protect the health, safety, and general welfare of all of the citizens of the City. The existing ordinances identify the City's director of public works/city engineer as the person responsible for approving and managing permit requirements with respect to the City's wastewater collection system.

The following sections include a summary of the City's existing codes and ordinances as they apply to its wastewater collection system.

#### **4.4.1 Prevention of Illicit Discharges**

The City is required to prevent discharges of illicit and undesirable substances from entering the wastewater collection system. Illicit discharges include, but are not limited to, the release of I/I, storm water, chemical dumping, unauthorized debris and constituents, and cut roots. Properly drafted ordinances provide the City the tools to identify and enforce penalties to prevent illicit discharges. The City's current ordinances prohibiting illicit discharges to control both domestic and industrial discharges are discussed in the following sections.

### 4.4.2 Domestic Discharges

Chapter 62, Article V, Section 62-396, Dumping in Manholes, states that

“[i]t shall be unlawful for any person to dump anything in a manhole unless the person has been issued, by the director of public works/city engineer, a permit to dump in the manhole, which permits the dumping and states what is permitted to be dumped.”

While this section controls discharges into the system via manholes, the type of substances allowed is discretionary. It is imperative that the city engineer coordinate with the City’s Water/Wastewater staff to ensure that substances that may be detrimental to the operation and maintenance of the system are not allowed into the system. The intent of this section is to prevent discharges via manholes and to allow the City to track and control the type and amount of discharges. Often these discharges come from portable comfort stations or sewer cleanings.

Additionally, Chapter 62, Article V, Section 62-401, Compliance with Other Sewage Discharge Restrictions and Requirements, restricts what users can generally discharge into the collection system. This section requires that all persons “shall comply with all sewage discharge restrictions and other requirements of the LACSD and the United States, the state, and the city.” The Wastewater Ordinance for the Sanitation Districts of Los Angeles County, Part I, Section 103, Liquid Waste Disposal Policy, states:

“Wastewater originating within the Districts’ boundaries will generally be accepted into the Districts’ sewerage systems, provided the wastewater will not, directly or indirectly: (1) damage structures; (2) create nuisances such as odors; (3) threaten public health; (4) impose excessive collection, treatment or disposal costs on the Districts; (5) interfere with wastewater treatment or residue disposal processes; (6) violate quality and pretreatment requirements set by the Districts or federal or state agencies; (7) detrimentally affect the environment or (8) cause the Districts to violate any terms or conditions of their facilities’ permits or any other waste discharge or air quality requirements.”

This statement, incorporated by reference into the City’s code, provides the City the authority to determine the extent of substances permitted to be discharged into the wastewater collection system. However, this description of prohibited substances, while specific on the intended results to avoid, is vague on the types of specific constituents that the City should not allow in the collection system. To address this concern for domestic discharges, staff will be proposing code revisions that will identify some of the major prohibited substances. Samples of the revised codes are included in Appendix B *Recommended Legal Authority*. Approval of the code revisions will follow the normal practice of staff and legal review, Public Hearings, and City Council approval.

### 4.4.3 Industrial Discharges

City Code Chapter 62, Article V, Division 4, Industrial Wastes, describes limitations on industrial waste discharges and special permit requirements. Section 62-546 requires that the discharge of industrial wastes into a sanitary sewer shall be governed as follows:



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- (1) All wastes, however harmless, shall be reduced to a minimum in volume and strength, and fluctuations of temperature and flow shall be evened out by adequate storage before discharge.
- (2) All wastes, when necessary, shall be pretreated by screening, sedimentation, neutralization, or other approved methods to produce a quality and character of waste that shall conform to Section 62-504 of the City Ordinance.
- (3) Pretreatment of industrial wastes shall be at the source and at the expense of the agency producing such.

For both the domestic and industrial waste discharges, the City has include and delineated restrictions on what may be deposited into its sewer system. These codes, while they provide the City with sufficient authority to limit and control the types of industrial waste discharged into the system, expanding the codes to include more descriptive types of industrial wastewater not acceptable in the City's wastewater collection system will reduce the potential for misinterpretation. As in the case with domestic discharges, staff will be proposing code revisions that will identify some of the major prohibited substances for industrial waste discharges. Samples of the revised code are included in Appendix B *Recommended Legal Authority*. Approval of the code revisions will follow the normal practice of staff and legal review, Public Hearings, and City Council approval.

### 4.4.4 Proper Connections and Construction

The requirements for the design and construction of new, rehabilitated, and replaced sewer system facilities, including mains, tie-ins, service laterals, cleanouts, manholes, and other system appurtenances, are necessary to ensure the proper operation of the sewer system. City Code Chapter 62, Article V, Division 1, from Section 62-391 to Section 62-396 includes the general design and construction requirements for the City's wastewater collection system. The sections include the requirements for sewer connection locations, pipe size, minimum grades, manholes, and construction requirements. City Code Chapter 62, Article V, Division 1, Section 62-397 provides the director of public works/city engineer the authority to establish the requirements and approve the provisions of specifications for construction of any sewer built in the City.

Additionally, Section 62-504, approval of disposal requirements prerequisite to issuance of building permit, in the Industrial Wastes Division of the Code, requires every person applying for a building permit for construction of a new industrial building or industrial structure, or for an addition or alteration to an existing building or structure, to obtain a signed statement from the director of public works/city engineer allowing the discharge into the wastewater collection system. Although this requirement applies specifically to industrial facilities, it describes a process for the review and approval of construction plans, allowing the City the opportunity to ensure the safety of the wastewater collection system.

The City prepared the *City of Pomona Sewer Design Policy and Standard Drawings* (in Appendix G) to supplement the City's existing codes and provide additional information for the planning and design of wastewater collection facilities within the City of Pomona. The policy has

not been adopted as of the development of this document, outline and describe in one succinct document, the relevant City policies, applicable codes, engineering and operation practices, and procedures to plan, design, and build a cost-effective, reliable, and safe wastewater collection system. The policy includes minimum design standards for sewer mains, sewer manholes, sewer laterals, and general guidelines for common sewer rehabilitation options. Also included are standard drawings, specifications and industry requirements for the planning and design of wastewater infrastructure. In contrast to the City's existing ordinances, the proposed sewer design policy designates the Public Works Director, rather than the director of public works/city engineer, as the person with the authority to review and approve plans and construction related to the wastewater collection system. The *City of Pomona Sewer Design Policy and Standard Drawings* are included in Appendix G for reference and are further discussed in Chapter 8 of this SSMP.

#### **4.4.5 Accessibility for Maintenance, Inspection, and Repair**

The City codes do not expressly document access requirements for maintenance, inspection, or repair of the wastewater collection system. Instead, accessibility requirements are managed through the plan reviews for new sewer service where City staff ensures that sewer system facilities are constructed to specific standards within the public right-of-way or within adequate, permanent easements.

However, Section 62-398, Sewer Construction Permit, Connection Permit and Inspection Fees, in Chapter 62, Article V of the City code implies that the City may have some accessibility rights in that it requires the director of public works/city engineer to issue a permit before a sewer line may be constructed. As such, the director of public works/city engineer has the opportunity to ensure that new sewer lines are accessible. Since this is not an explicit requirement, and it is based on the city engineer's best engineering abilities, not all new sewer pipes may be designed with proper access to the facilities for maintenance, repair, replacement and/or rehabilitation purposes. Plus, City crews and authorized representatives may not have the right to access existing City sewer lines located on private property. As such, adding a specific code section or adopting an ordinance that governs accessibility for maintenance, inspection, and repair efforts will provide the appropriate legal authority for City crews to access the sewer facilities.

The *City of Pomona Sewer Design Policy and Standard Drawings* in Appendix G includes general procedures for ensuring proper access to the City's wastewater collection system is properly addressed in the planning and design phases of sewer projects. The policy includes information pertaining to the placement of sewer mains within the public right-of-way. It includes the requirement for easements and encroachments where public sewer mains are located outside of the public right-of-way and that permanent access easements will be provided with adequate widths to allow maintenance vehicles and necessary equipment proper access to all appurtenances and isolated reaches of sewer main. The policy also includes a summary of prohibited locations for installation of sewer mains and manholes without prior approval by the City Water/Wastewater Operations Manager.

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### 4.4.6 Limit Fats, Oils, and Grease Discharge

Chapter 62, Article V, Division 3, from Section 62-471 to Section 62-477 addresses sand and grease traps. These sections give the City authority to require grease interceptors and sand traps. These appurtenances are required in all packing plants and other establishments that may be a source of food fats and greases with respect to grease interceptors, and in establishments equipped with wash racks, floor drains, or wash tanks for cleaning machined parts or other materials. Specifically, Sections 62-472, 62-473, and 62-474 address the requirements for the installation, minimum capacity and flow rate, and inspection and cleaning frequency of grease interceptors respectively. Sections 62-475, 62-476, and 62-477 respectively address the requirements for grease trap installation, inspection and cleaning frequencies. While the City requires these items and regular cleaning of the same, the City Code does not authorize City staff or authorized representatives to access and routinely inspect these facilities, and issue violation notices or fines. Staff will be proposing code revisions that will authorize City staff or authorized representatives to access and routinely inspect these facilities, and issue violation notices or fines. Samples of the revised code are included in Appendix B *Recommended Legal Authority*. Approval of the code revisions will follow the normal practice of staff and legal review, Public Hearings, and City Council approval.

However, the Regional NPDES Permit for Municipal Storm Water and Urban Runoff Discharges within the County of Los Angeles, and the Incorporated Cities therein, Except the City of Long Beach, requires the City to inspect, twice during the five (5) year term of the NPDES permit, all restaurants that are critical sources of storm water pollution. The inspection focuses on the Best Management Practices (BMPs) for restaurant food preparation, to ensure that workers do not pour oil and grease or its residue onto a parking lot, street, or adjacent catch basin. The City must keep updated records of these restaurants and the results of the inspections. While these inspections focus on restaurants near critical bodies of water and storm drains, they provide a starting point to track and inspect restaurants for possible grease and oil disposal in the wastewater collection system.

The City recently prepared a *Fats, Oils, and Grease (FOG) Control Program* in Appendix F, which is pending City Council approval in November 2018. The FOG Control Program establishes the formal procedures City staff will implement to effectively reduce the direct or indirect discharge of all wastewater or waste containing FOG into the City's wastewater collection system. It includes several components necessary to reduce the quantity of FOG discharged into the City's wastewater collection system to achieve the goal of minimizing SSOs due to excessive FOG. The elements of the FOG Control Program include:

- Kitchen Best Management Practices
- Grease Trap Installation, Operation and Maintenance Requirements
- Grease Interceptor Installation, Operation and Maintenance Requirements
- Notification Requirements
- Record Keeping and Reporting Requirements
- Permits, Inspection, and Enforcement
- Drawing Submittals

- Public Education

With implementation of the FOG Control Program, the City intends to implement and enforce actions against users of the wastewater collection system that violate the prohibition of discharging FOG into the wastewater collection system. The City will initiate enforcement actions for non-compliance and it will be possible for other regulatory agencies, including the EPA or the State to initiate their own enforcement actions, if in their opinion, the City does not implement adequate enforcement. The *City of Pomona Fats, Oils, and Grease Control Program* is included in Appendix F for reference and is further discussed in Chapter 6 of this SSMP.

#### 4.4.7 Violation Enforcement

The authority for the City to enforce violations of the codes or other adopted policies is not explicitly described within the sewage disposal code section. However, in Chapter 1, General Provisions, Section 1-7 describes the general penalties for violating sections of the code and for continuing violations. Individuals convicted of a violation of the City Code that is not specifically declared to be an infraction shall be considered guilty of a misdemeanor, and punished with a fine of not more than \$1,000.00, imprisonment in the city or county jail for not more than six (6) months or both such fine and imprisonment.

Chapter 2, Article X, Code Enforcement includes information regarding the City's authority to enforce penalties for violations of the City's ordinances and City Code. Division 1, Section 2-1161, Authority to Cite Persons in Violation, provides the City Council the power to authorize its officers and employees the ability to enforce the provisions of the City ordinances and the City Municipal Code. Specifically it states:

- (a) The city council hereby authorizes all officers and employees of the city who have the duty to enforce city ordinances and this Code to cite persons for violation of such ordinances and this Code, pursuant to Penal Code § 836.5, provided such officers and employees have reasonable cause to believe that the persons to be cited have committed misdemeanors and infractions in their presence which are violations of the ordinance or section of this Code which such officers and employees have the duty to enforce and further provided that such officers and employees have satisfactorily completed the peace officers standards and training course provided for in Penal Code § 832.

Division 2, Administrative Citations, summarizes the City's administrative citation program as an alternative method of enforcing violations of the City's code. Section 2-1182 recognizes the police chief as the "enforcement official" and gives the police chief the authority to administer and enforce violations of the municipal ordinance that are determined to be infractions. Enforcement of violations shall be in accordance with Sections 2-1183 through 2-1190.

Although the director of public works/city engineer, and on occasion the Director's designee, is responsible for ensuring the codes are followed, and to develop appropriate policies to address areas where the City's Code is silent, the director of public works/city engineer and/or the Director's designee has limited authority to issue violation notices or assess fines for misdemeanors and infractions. As such, specific violations must be delineated to facilitate

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establishing the authorization necessary to issue violation notices and fines specific to the wastewater collection system, including passing on to the culpable parties' fines and penalties that the City may incur for the negligent and intentional acts of others. Staff will be proposing code revisions that will authorize issuance of violation notices and fines specific to the wastewater collection system, including passing on to the culpable parties fines and penalties that the City may incur for the negligent and intentional acts of others. Samples of the revised code are included in Appendix B *Recommended Legal Authority*. Approval of the code revisions will follow the normal practice of staff and legal review, Public Hearings, and City Council approval.

### 4.5 Recommendations

The City intends to update the City code to clarify and enhance the City's legal authority with respect to the wastewater collection system, and expects to implement the changes in fall of 2018. The Director of Public Works/City Engineer remains the person responsible to review and condition construction plans, develop and enforce permits, and generally make decisions with respect to the wastewater collection system. The recommended revisions and additions to the City's code are included in the *Recommended Legal Authority*, Appendix B of this SSMP. The proposed ordinances identify the Public Works Director as the responsible person. Bracketed text may be appropriate when certain policies, such as a FOG Control Program, are adopted. The revised and new ordinances should be inserted into Chapter 62, Article V of the City's City code.

# Chapter 5

## Element 4 - Operations and Maintenance Program

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This chapter of the SSMP discusses the City's operations, maintenance and other related measures and activities as they pertain to its wastewater collection system.

### 5.1 Regulatory Requirement for Operations and Maintenance Program

The WDRs require that the SSMP contain descriptive measures of the City's Operations and Maintenance (O&M) Program that are implemented by the City to facilitate proper and efficient management and maintenance of the wastewater collection system and affected appurtenances. The WDRs require that the SSMP include a description of each of the following components as they apply to the City's wastewater collection system:

- Maintenance of up-to-date sanitary sewer system map showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
- Routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventive Maintenance Program has a system to document scheduled and conducted activities, such as work orders;
- Development of a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan includes a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan includes a time schedule for implementing the short and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
- Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and repair contractors to be appropriately trained; and
- Provide equipment and replacement part inventories, including identification of critical replacement parts.

### 5.2 City's Operations and Maintenance Program

The City prepared a comprehensive document titled City of Pomona Operation and Maintenance (O & M) Program which includes a summary of the City's current procedures and practices as they pertain to the O&M activities related to its wastewater collection system. The

# Operations and Maintenance Program

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City of Pomona Operation and Maintenance Program contains information pertaining to the following components for compliance with the WDRs:

- Inventory and Mapping of the Wastewater Collection System Assets
- Preventative Maintenance Program
- Spill Emergency Response Plan (SERP)
- Fats, Oils, and Grease Control Program
- Wastewater System Inspection and Assessment Program
- Capital Improvement Program (CIP) Project Identification
- Computerized Maintenance Management System (CMMS)
- Equipment and Replacement Part Inventories
- Training Program
- Staffing Requirements and Recommendations

A copy of City of Pomona Operations and Maintenance Program is included in Appendix C for reference.

## **5.3 Discussion of Regulatory SSMP Elements for WDR Compliance**

The following sections highlight the City's O&M efforts and include recommendations that the City could implement to improve its O&M program.

### **5.3.1 Wastewater Collection System Mapping**

The City effectively manages and maintains information pertaining to the wastewater infrastructure by means of manually updating atlas maps and/or references to hard copy as-built drawings. As of today, the City has converted the manually drawn, paper mapping system, to a GIS using ESRI's ArcGIS software. As shown in Appendix C, the City has transitioned from hard copy Atlas Sheets to electronic Atlas Sheets. The conversion of records to GIS has primarily included digitizing location information from the City's atlas map sheets and recording facility attributes including:

- Main
- Manhole, and
- Lateral Connections

The initial phase included conversion of the City's earliest records in sequential order through and including 2005 as-builts. The subsequent phase will include the conversion of information from 2006 to the present.

In addition to the original information posted on the Hard Copy Atlas sheets, numerous improvements were able to be integrated into the GIS database:

- Year of installation
- Diameter
- Slope
- Material
- Invert elevations
- Manhole rim elevations
- Flow direction
- House Numbers
- Manhole Numbers, and
- Ownership: Los Angeles County Sanitation District or Pomona

To ensure that potential errors associated with the transfer of available graphic data into the GIS were omitted, City staff performed internal reviews of the conversion for accuracy of the information. Involved in this review was staff in the Engineering and Wastewater Maintenance Sections with extensive knowledge and experience with the City's wastewater collection system.

Completion of the conversion of the graphic information to the computerized mapping system, population of the GIS database, assignment of identifying labels to all pipeline segments and manholes, and establishment of a routine updating and maintenance procedure enhances the City's ability to effectively manage the system and implement an asset management program for the wastewater collection system. This also facilitates planning and funding of potential future capital improvement projects.

### **5.3.2 Preventive Maintenance Program**

The City's wastewater collection system requires frequent maintenance due to age, extended use, debris accumulation, and tree root intrusion. To minimize and prevent system blockages and extend the useful life of the wastewater collection system, the City's Preventive Maintenance Program primarily includes the routine cleaning of all wastewater pipelines. The preventive maintenance program also includes scheduled focused and cyclic cleaning, root control, and response to customer complaints. The following paragraphs describe the City's current preventive maintenance procedures as they apply to the wastewater collection system.

#### **Mechanical Cleaning**

The City's Wastewater Maintenance Section continually cleans the sanitary sewer system. In this manner, they are able to clean the entire system approximately once every one and a half years. They utilize three (3) combination jetter/vactor vehicles, and one (1) trailer mounted mechanical rodder. The sewers are typically cleaned by putting high pressure water jetting nozzles in the pipe and manually removing debris from the downstream manhole. Purchased



## **Operations and Maintenance Program**

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equipment or staff-made appurtenances are inserted at the downstream manhole to capture and remove debris. The material is stored in 55 gallon drums at the Water Resources Operations yard. When there are 10 or more drums, a licensed contractor removes the drums and properly disposes of the material. Cleaning efforts are documented daily. Progress ranges from 3,000 to 18,000 lineal feet per day, depending on the existing conditions, staffing available, and other assigned duties.

The City's cleaning efforts focus on one (1) quadrant of the City at a time. Although the map varies slightly year to year, the current quadrant map is provided in Appendix C. Wastewater Operations crews work daily to eliminate potential pipe and manhole blockages. There are currently two (2) crews, consisting of two (2) staff members each that are assigned to perform daily routine cleaning tasks. Additionally, crews clean high frequency maintenance locations monthly which have identified in an excel table and graphically depicted on a GIS map. Since 2008, the high frequency (hot spot) locations identified in the map have changed somewhat. Included in Appendix C is map (2008 and present) showings these hot spots as well as an excel table listing the locations. These locations include areas identified as having excessive amounts of grease accumulation and concentration of roots. Staff primarily uses the combination jetter/vactor vehicles for cleaning, and uses the mechanical rodder truck in areas known for high root concentrations and areas with blockages.

### **Root Treatment**

The City's root treatment program is performed by the City's Wastewater staff utilizing Root X. Pipelines identified as locations with root intrusion problems are treated and evaluated on a yearly basis. Target sites are located in the older developed areas with large mature trees as well as locations identified via the CCTV inspection efforts that identify high concentration of roots. As locations are identified as requiring chemical treatment for root control, location information is recorded in the CCTV database, assessed, and evaluated for inclusion in the root control program.

### **Manhole Treatment Program**

To control infestations of insects and to maintain adequate access to the system, the City's wastewater collection system manholes are systematically treated for the removal of roaches. The annual roach treatment, referred to as Insecta, is performed by an independent contractor retained by the City. The last treatment was performed by Golden Bell for a cost of \$19,000 and money is set aside each year for treatment in our annual operating budget. Each chemical application is capable of treating approximately 500 to 800 manholes per year. This contractor can apply the chemical at a rate of about 150 to 200 manholes per day. The manholes selected for treatment are identified by areas known to be prone to insect infestation, and observations made during the annual cleaning. After application, infestation is controlled in most cases is typically for two years (this is the company's guarantee).

Although we know the chemical treatment is effective, the roach infestation moves around. One way in which we locate the infestation is through field observation while cleaning the line. Another method of discovery comes from our past experience. Staff has a good sense of how the population moves so we use that knowledge in determining where to apply the chemical.

## **Response to Customer Notifications**

City service calls are currently handled manually. All customer calls are routed to the Wastewater Collection System Crew Chief or designee from either the City's Customer Services Section or the Pomona Police Dispatch Center. Customer notifications may also be received via the City's GOVQA (formerly the Comcate eFeedback Manager) notification system currently in place. The GOVQA is Customer Relationship Management/Request Tracking software that allows internal and external notification of various issues via an email system. City staff is required to respond to issues received via the GOVQA system in a timely manner.

Response to customer notifications is performed by the Wastewater Collection System staff during business hours and the standby staff during non-business hours. The staff's responsibility primarily includes assessing the complaint and resolving the potential problem.

## **Management of Operations and Maintenance Activities**

Tracking and reporting are done electronically using SEDARU. In addition, a wall map of the City divided into two (2) quadrants and depicting the City's wastewater collection system, is highlighted daily by the maintenance crews to reflect the cleaning and CCTV inspection completed. The map serves to provide City maintenance crews with a comprehensive view of the progress of the preventive maintenance efforts by quadrant. A copy of the quadrant map is located in Appendix C.

## **Maintenance Data Management**

In 2015, staff worked with a firm ID Modeling to develop a reporting program via Sedaru. The program is able to extract data from the hydraulic model and report on works orders for the wastewater division.

The current CCTV data storage and management process, in place since October 2017, includes transferring the recorded data onto the City's WINCAN database server for future reference as needed. Staff has purchased portable storage drives that have at least one terra bite capacity as a back up to the information contained on the database server.

The City continues to work toward identification, integration, and utilization of a CMMS to facilitate management of wastewater facilities and resources. A versatile CMMS will allow staff to properly and efficiently organize, plan, and schedule the appropriate resources for routine preventive maintenance activities, coordinate and prioritize urgent and/or unique maintenance activities, and ensure uniformity and consistency in processing and tracking facility related information.

### **5.3.3 Wastewater Collection System Inspection and Condition Assessment Program**

A rehabilitation and replacement plan serves to identify and prioritize system deficiencies and establish short and long-term rehabilitation actions to address each deficiency. The City's program includes regular visual and CCTV inspections, and assessment of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation.

# **Operations and Maintenance Program**

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## **System Inspection and Assessment**

The City's CCTV truck is equipped with WINCAN software in 2017. The inspection codes incorporated into the WINCAN software are National Association of Sewer Service Companies (NASSCO) certified and comply with the Pipeline Assessment and Certification Program (PACP). The defect codes also include codes developed and incorporated by the City. The information obtained and recorded from the CCTV inspections is reviewed, recorded, and assigned a severity rating according to a rating scale developed by City staff. Permanent records of the inspections are made by capturing still images of the information on the TV screen and recording the information to the City's database. The City's CCTV inspection capability extends to various pipe sizes.

Inspections are performed by a one (1) person and are typically performed after the cleaning of the particular pipeline sections to be televised. Daily progress is recorded and uploaded to the WINCAN database and utilized for recording, tracking, and reporting purposes. As the necessity to televise a particular location or portion of the wastewater collection system arises, staff assignments are reorganized and resources are reallocated to accommodate the requirement. Although the City's goal includes televising the sewer from north to south and east to west, the majority of the staff resources are currently devoted to performing routine cleaning and maintenance tasks.

Inspection information is recorded and rated according to the City's procedures summarized in the *City of Pomona Operations and Maintenance Program* included in Appendix C. Recommendations for modifying the inspection codes are also included in Appendix C.

## **Repair and Rehabilitation Projects**

The City's Wastewater Operations Section is responsible for performing various types of wastewater facility repairs and rehabilitation improvements. Repair and rehabilitation work performed by crews may include point repairs at cracks, joints, and service interfaces, repairing collapsing or broken sewer pipe, removing obstructions in the sewers that hinder cleaning operations, manhole rehabilitation, video inspection, and other related work. Repairs that require resources beyond those available within the Wastewater Maintenance Section, including staff and equipment, are coordinated and scheduled with other sections including the Water Distribution/Treatment and Environmental/Engineering Section. In conjunction with the City's Water Distribution Section's staff and equipment, the Wastewater Maintenance staff is responsible and able to implement mitigation efforts and perform repairs for pipeline up to 12 inches in diameter to restore or replace failing wastewater collection sewer lines. Repairs for pipelines greater than 12 inches in diameter or that require an extensive construction effort are performed by independent contractors retained by the City.

## **CIP Development**

The City's 2017 Sewer CIP Program included eliminating Red Flag repair areas identified by the previous CCTV work.

### 5.3.4 Training Program

Prior to performing any work on City facilities, City Wastewater Maintenance staff is trained on the existence and the provisions of the wastewater operations and maintenance policies, procedures, safety policies, and the equipment used. Additionally, Wastewater Maintenance staff are required to receive Collection System Maintenance training and certification through CWEA. Training for operation of City equipment includes primarily “on-the-job” training in conjunction with weekly “tailgate” meetings to discuss safety issues.

The City requires maintenance staff to become CWEA certified, and provides training opportunities to enable its maintenance staff to become and remain certified. The City assists with certifications by sponsoring preparation courses, certification exams, and requiring continuing education. Minimal certification is required for maintenance staff. However, the City will institute additional certification requirements if deemed necessary by governing authorities.

Each year in January, wastewater maintenance staff undergo spill scenario training to demonstrate the proper procedure for establishing manhole to manhole bypass system in the field.

The City also ensures that contractors for the City have appropriate training. The City has incorporated language in its various programs to require contractors working on City facilities to be adequately trained and provide proof for wastewater collection system work. The contract specifications list Special Technical Provisions, in Section 1170, Paragraph 1.5, which states the contractor must maintain sewage flows and sewage bypass if necessary.

Lastly, to stay abreast of current technologies and ensure that the report is developed and maintained over the course of time, environmental/engineering staff has been developing its own familiarity with the SSMP and associated regulations. Hence, environmental/engineering staff is expected to attend and access CWEA technical meetings, regulations updates, seminars, such as Tri-State, and web site information for other agencies, so as to sustain an informed staff.

### 5.3.5 Equipment and Replacement Part Inventories

The Wastewater Maintenance Section maintains an inventory of vehicles and sanitary sewer system replacement parts. The inventory of vehicles includes the vehicle type currently utilized to perform the necessary operation and maintenance activities of the City’s wastewater collection system. A listing of the vehicles and replacement parts are tabulated in Appendix C.

The vehicles and sanitary sewer system replacement parts are made readily accessible to maintenance staff. The replacement parts maintained in the City Yard are for the specific types of repairs performed by Wastewater Maintenance staff. As necessary, maintenance staff solicits the utilization of resources, including equipment and staff, from the Water Distribution/Treatment Section. For implementation of repairs that extend beyond the City’s internal resource capabilities, the City retains the services of professional contractors.



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# Chapter 6

## Element 7 - Fats, Oils, and Grease (FOG) Control Program

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This chapter of the SSMP discusses the City's Fats, Oils, and Grease (FOG) Control Program including identification of high frequency maintenance locations and source control.

### 6.1 Regulatory Requirement for a FOG Control Program

To comply with the WDRs, the City is required to evaluate its service area to determine whether a FOG Control program is necessary. If deemed necessary, the City is required to develop and implement a FOG Control Program to effectively control the quantity of FOG that is discharged into the City's wastewater collection system. The FOG Control Program shall include the following as appropriate:

- a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- 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 SSOs and blockages caused by FOG;
- d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.

### 6.2 Implementation of the City's FOG Program

As with other agencies in the region, the City has had to cope with dwindling operating budgets. In light of this situation, the City will be using a City staff and consultant to implement, and enforce the City's FOG program initially. In this regard, the program can be run as a revenue



# FOG Control Program

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neutral effort. The City is re-organizing job duties with internal staff to perform the inspection program in near future.

## 6.3 Discussion of FOG Characterization Study

Prior to developing the comprehensive FOG Control Program, the City performed a characterization study, titled *City of Pomona Fats, Oils, and Grease Control Program Technical Memorandum*, to identify the sources and nature of the FOG generated. The City identified that its primary source of FOG is generated from established restaurants located throughout the City. Large quantities of FOG is generated from the food service establishments (FSEs) during food preparation from both FOG used to assist in the cooking of the food (i.e. frying oil) and from the food itself (i.e. hamburger meat). In 2008, the City identified approximately +/- 220 existing FSEs and several high frequency maintenance sites within the City's service area boundary. The high frequency maintenance locations are routinely cleaned on a monthly basis and include areas with high FOG and root concentrations, sewer pipelines with minimal slope, and locations that have been identified to have repetitive grease accumulation. Review of historical records pertaining to wastewater related emergency calls identified additional locations of potential problem sites due to excessive FOG concentrations an/or accumulations. The characterization study served to compile and categorize information pertaining to the City's wastewater collection system as it relates to FOG.

Based on the results of the characterization study, it was determined that the City's proactive maintenance procedures have been successful in minimizing the number of SSOs. However, the City determined that it would benefit from preparing and implementing a comprehensive FOG Control Program to preemptively reduce FOG related SSOs by preventing the disposal of FOG into the City's wastewater collection system, as well as reduce the occurrence of high frequency maintenance cleanings.

## 6.4 Discussion of FOG Control Program

The City developed the *City of Pomona Fats, Oils, and Grease Control Program* to facilitate the maximum beneficial public use for the City's wastewater collection system while preventing blockages of the sewer lines and pump stations, reducing the adverse effects on sewage treatment operations resulting from discharges of FOG into the system, and specifying appropriate FOG discharge requirements for FSEs discharging into the City's wastewater collection system.

The City's FOG Control Program documents the processes and procedures intended to provide the City with a comprehensive document that includes components necessary to reduce the quantity of FOG discharged into the city's wastewater collection system to achieve the goal of minimizing SSOs due to excessive FOG. Elements of the FOG Control Program include the following:

- Kitchen Best Management Practices
- Grease Trap Installation, Operation and Maintenance Requirements
- Grease Interceptor Installation, Operation and Maintenance Requirements

- Notification Requirements
- Record Keeping and Reporting Requirements
- Permits and Enforcement
- Drawing Submittals
- Public Education Outreach Program

To address the components listed in Section 6.1 and as required by the WDRs, the following subsections provide a summary of the applicable FOG control procedures currently being implemented and the procedures the City is evaluating for implementation. The following paragraphs correlate to the WDR components listed in Section 6.1. The complete FOG Control Program is included in Appendix F.

a) Public Education Outreach Program

The FOG Control Program identifies several forms of media available to educate and inform the public about FOG effects and requirements including, but not limited to, direct mailers, door hangers, brochures distributed at City locations and kiosks, and announcements placed on the City's web site, and social media (Facebook, Instagram, and Twitter). An effective outreach program educates the public on ways to reduce putting FOG into the wastewater collection system. All messages that are used to communicate to the public will be prepared in English and, where appropriate, in Spanish, and in any other dominant language spoken by the target audience. The Water Resources Department intends to work closely with the City's Public Information Officer to develop appropriate messages and with the type of media to be utilized to disseminate the messages to the public.

Additional details on the City's Public Education Outreach Program effort can be found in Section 10, Public Outreach and Education. A couple of highlights from that Section include:

- Posting the SSMP and its updates on the City's web site
- Using social media
- Having a booth at Citywide events
- Handing out brochures that convey the importance of Fat-Free Sewers (Water Environment Federation) in English and Spanish

b) Disposal of FOG

The FOG Control Program includes a description of BMPs, which include simple and effective practices that an FSE can implement to prevent and reduce the quantity of FOG discharged into the wastewater collection system. Since the success of a BMP program requires proper implementation and continual re-enforcement of the adopted BMPs, a requirement for routine and proper training of FSE employees on the proper implementation methods of BMPs is also included. A location of local FOG disposal facilities will be updated and available on the website.

Requirements for the pretreatment of wastewater flows generated at FSEs are also included in the FOG Control Program. Typical pretreatment devices include grease traps and grease

## FOG Control Program

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interceptors. The cleaning and removal of all accumulated grease is required by a licensed waste hauler with an approved license from an authorizing agency.

### c) Legal Authority to Prohibit Discharges

The City's current legal authority is established through existing codes, regulations, ordinances, and permitting procedures that allows the City to require and enforce various measures for ensuring the proper and efficient operation, management, and maintenance of the City's wastewater collection system. A mechanism includes limiting the types of substances allowed to be discharged into the City's wastewater collection system. Discussed below are the City's ordinances to control both domestic and industrial discharges.

#### **Domestic Discharges**

Chapter 62, Article V, Section 62-396, Dumping in Manholes, states that:

“It shall be unlawful for any person to dump anything in a manhole unless the person has been issued, by the director of public works/city engineer, a permit to dump in the manhole, which permits the dumping, and states what is permitted to be dumped.”

While this section controls discharges into the system via manholes, the type of substances allowed is discretionary. The intent of this section is to prevent discharges via manholes and to allow the City to track and control the type and amount of discharges.

Additionally, Chapter 62, Article V, Section 62-401, Compliance with Other Sewage Discharge Restrictions and Requirements, restricts what users can generally discharge into the collection system. This section requires that all persons “shall comply with all sewage discharge restrictions and other requirements of the [Los Angeles] County Sanitation Districts, and the United States, the state and the city.” The Wastewater Ordinance for the Sanitation Districts of Los Angeles County, Part I, Section 103, Liquid Waste Disposal Policy, states:

“Wastewater originating within the Districts' boundaries will generally be accepted into the Districts' sewerage systems, provided the wastewater will not, directly or indirectly: (1) damage structures; (2) create nuisances such as odors; (3) threaten public health; (4) impose excessive collection, treatment or disposal costs on the Districts; (5) interfere with wastewater treatment or residue disposal processes; (6) violate quality and pretreatment requirements set by the Districts or federal or state agencies; (7) detrimentally affect the environment or (8) cause the Districts to violate any terms or conditions of their facilities' permits or any other waste discharge or air quality requirements.”

The statement is incorporated by reference into the City's code and provides the City the authority to determine the extent of substances permitted to be discharged into the wastewater collection system. Pursuant to Chapter 4 Legal Authority, staff will be proposing code revisions that will identify some of the major prohibited substances. Samples of the revised code are

included in Appendix B *Recommended Legal Authority*. Approval of the code revisions will follow the normal practice of staff and legal review, Public Hearings, and City Council approval.

### **Industrial Discharges**

City Code Chapter 62, Article V, Division 4, Industrial Wastes, describes limitations on industrial waste discharges and special permit requirements. Section 62-546 requires that the discharge of industrial wastes into a sanitary sewer shall be governed as follows:

- (1) All wastes, however harmless, shall be reduced to a minimum in volume and strength, and fluctuations of temperature and flow shall be evened out by adequate storage before discharge.
- (2) All wastes, when necessary, shall be pretreated by screening, sedimentation, neutralization, or other approved methods to produce a quality and character of waste that shall conform to Section 62-504 of the City Ordinance.
- (3) Pretreatment of industrial wastes shall be at the source and at the expense of the agency producing such.

These codes provide the City with sufficient authority to limit and control the types of industrial waste discharged into the system.

#### d) Legal Authority to Inspect

Chapter 62, Article X, Division 2, 62-478 and 62-479 will grant staff the authority to perform inspections of grease producing facilities, and establish a fee for said inspections. Council approval in November 2018.

#### e) Requirements for Installation of Pretreatment Devices

The FOG Control Program includes a description of acceptable pretreatment devices, including grease traps, grease interceptors, or other grease control devices approved by the City Public Works Director or authorized designee. The City will require that each FSE be solely responsible for the proper operation, maintenance and repair of the approved pretreatment device(s). Sizing and installation requirements for the devices will be according to the manufacturer's recommendations and are required to conform to the adopted edition of the California Plumbing Code. Cleaning and removal of accumulated grease will be required by a licensed waste hauler with an approved license from the authorizing agency. Disposal of all water and material removed from the pretreatment devices at qualified disposal stations will also be required. To ensure proper disposal of the collected grease, the City will require that tracking logs be maintained by each FSE for a period of up to two (2) years and be made available to City Inspectors during scheduled and routine inspections.

#### f) Facility Inspection

## FOG Control Program

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Implementation of the FOG Control Program will require all FSEs to obtain and renew a Food Service Establishment Waste Discharge Permit. Although the requirements for compliance with the permit will vary among FSEs, generally each permit will require the FSE to meet the requirements for installation of FOG removal devices, comply with applicable City policies, and pay all required fees as set by the permit fee schedule.

To determine whether the FSE is in compliance with the conditions of the Food Service Establishment Waste Discharge Permit, FOG Control Program, and City ordinances, the City's Water Resources Director or authorized designee will have the authority to inspect each FSE. Compliance with the FOG Control Program will require that reasonable access to all parts of the FSE be made available when inspection and/or sampling of the wastewater is required.

### g) Maintenance Schedule for High Frequency Maintenance Locations

The performance and scheduling of preventive operation and maintenance activities is performed by the existing staff. The preventive maintenance program includes a cleaning cycle for the areas that have been identified by City staff as high frequency maintenance sites. The City's high frequency maintenance sites include pipe segments with high FOG and root concentrations. The pipe segments within the wastewater system that have been identified as having an excessive amount of grease accumulation are routinely cleaned on a monthly basis. Additional details on the City's high frequency maintenance sites can be found in Chapter 5, Operations and Maintenance Program.

### h) Development and Implementation of Source Control Measures

Detailed information pertaining to the implementation of the FOG Control Program and the source control measures for all sources of FOG discharged to the sanitary sewer system is included in the *City of Pomona Fats, Oils, and Grease Control Program Technical Memorandum* which is included in Appendix E for reference.

## Chapter 7

### Element 6 - Overflow Emergency Response Plan (SSOERP)

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The chapter of the SSMP provides a summary of the City's Sanitary Sewer Overflow Emergency Response Plan (SSOERP). Complete documents and procedures for the City's SSOERP are included in Appendix D for reference.

#### 7.1 Regulatory Requirements for Overflow Emergency Response Plan

The WDRs require that the City develop and implement an overflow emergency response plan which identifies measures to protect public health and the environment. At a minimum, the plan must include the following:

- a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- b) A program to ensure an appropriate response to all overflows;
- c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

#### 7.2 Discussion of Overflow Emergency Response Plan

The City prepared and updated the *City of Pomona Sanitary Sewer Overflow Emergency Response Plan* in Appendix D, which includes the formal procedures for City staff to contain, correct, and clean up SSOs. The SSOERP is intended to provide the City with a comprehensive document that includes components necessary for minimizing the effects of SSOs on the environment while protecting the public's health and safety.

# Spill Emergency Response Plan

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Additionally, the SSOERP includes a strategy for the Wastewater Maintenance Section to mobilize labor, material, tools, and equipment to contain, mitigate, and clean-up residuals from an SSO and correct or repair any condition which may cause or contribute to an un-permitted sewage discharge. The document provides the necessary guidelines for City staff to respond to an SSO event and contains the following elements:

- Introduction and Regulatory Requirements
- Sanitary Sewer Overflow Emergency Response Procedures
- Public Advisory of Sewage Contamination Procedures
- SSO Reporting Requirements
- Training Requirements
- SSOERP Updating Requirements
- Various Attachments

To address the components listed above in Section 7.1 and as required by the WDRs, the following subsections provide a summary of the applicable procedures that are currently being evaluated for implementation and included in the SSOERP. Further detailed descriptions of the policies and procedures as they pertain to responding to SSOs are included in the SSOERP document included in Appendix D.

## a) SSO Notification Procedures

The SSOERP includes procedures for proper notification of the appropriate staff in a timely manner. Notifications of possible SSOs may be received via field personnel, customer telephone calls, or the City's GOVQA notification system. Calls or complaints received via telephone for actual or possible SSOs are routed directly to the Distribution/Wastewater Supervisor or designated back-up from either the City's Customer Services Section or the Pomona Police Dispatch Center.

Pump Stations Alarms: Since the City's pump stations are owned, operated, and maintained by the Los Angeles County Sanitation Districts (LACSD) under an agreement between the City and LACSD adopted in 2013, the City is not responsible to respond first to any possible or actual SSO reported at a pump station. Each pump station has telemetry to monitor certain events and activate alarms. The telemetry is no longer connected to the City of Pomona's Police Department.

Public Advisory: The SSOERP includes public advisory procedures as required to limit public access to surface waters and other areas potentially impacted by SSOs originating from the wastewater collection system. The City has primary responsibility for determining when to post notices of polluted surface waters or ground surfaces that resulted from uncontrolled wastewater discharges from its facilities. Posting of public notices of SSOs should occur as soon as practical following the initial response to overflows. Signs should be posted on either side of the point of entry where sewage entered the body of water or public facility and the nearest public access point to that body of water or public facility. Examples

## Spill Emergency Response Plan

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of signs are included in Attachment H of the SSOERP. Should additional notification of sewage contamination be deemed necessary, City staff shall, in cooperation with the City's Public Information Officer, provide further notices through the use of pre-scripted notices made available to the printed or electronic news media for immediate publication or airing, or by other measures, such as door hangers.

b) SSO Response

The City's SSOERP includes response priorities, safety, and overflow containment, correction, and clean-up measures for potential or actual SSOs of various types. Specific actions to be performed by Wastewater Maintenance Section staff and additional crews for public, private, and pump station SSOs are outlined and described. To summarize the SSO response procedures, a flow chart that illustrates the City's emergency response procedures, including notification and request of additional resources as required in the event of a large SSO, is included and offers a concise overview of the steps required to quickly respond to an actual or possible SSO event.

c) Procedures for Prompt Notification of Regulatory Agencies

The volume, impact, and location of an SSO determine the level of notifications required to comply with City and regulatory requirements. Included in the SSOERP is Table 2-3 that summarizes the officials and agencies to be notified and under what conditions they are to be notified of an SSO. Attachment E of the SSOERP includes a list of the specific names and telephone numbers of the individuals to be notified.

d) Training of Appropriate Staff and Contractor

Appropriate staff will participate in regularly scheduled training sessions to assist response crews in awareness of their responsibilities and executing their duties. The training sessions will be organized based on the latest SSOERP as well as other reference materials.

The Overflow Response Plan should be updated and made available to key personnel who are responsible for managing or responding to SSOs. Copies of the City's instruction manuals should be available to field crews and engineers at the office who manage or have the role of preparing SSO reports to regulatory agencies.

The City will also implement procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained. Training will also incorporate hands-on field demonstrations to insure the preparedness of all response personnel to all anticipated situations.

The City is working to identify and approve various types of contractors and vendors to be available to respond to the City's needs during SSO events. Once identified, the City will address the requirements of the various contractor and vendors.

Our current procurement process, for contractors working on our sewer system, requires them to provide the City with a sewer spill plan. This plan is reviewed and approved by City staff to ensure its completeness.



# Spill Emergency Response Plan

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- e) Emergency Procedures and Response Activities (i.e. traffic/crowd control and other necessary response activities); and

Guidelines for traffic and crowd control, for use in limiting public access to areas potentially impacted by un-permitted discharges of sewage based on the various types of SSOs, are also provided. The following traffic and crowd control guidelines include:

## Small SSO (Up to 1,000 gallons)

- i. Set up cones to direct traffic away from spill area; and
- ii. Use City personnel to control traffic and pedestrians.

## Medium SSO (1,000 to 10,000 gallons)

- i. Contact regulatory agencies as required;
- ii. Perform lane closures as necessary;
- iii. Place proper signage for any lane closures and contaminated area signs;
- iv. Close affected entrances or exits from public and private facilities; and
- v. Place caution tape and barricades to protect pedestrians from contaminated area.

## Large SSO (greater than 10,000 gallons)

- i. Assess spill situation;
- ii. Contact regulatory agencies as required;
- iii. Inform City Police Department of any law enforcement assistance necessary for roadway closures and traffic control;
- iv. Delegate responsibility to County Health Department of informing public of hazards;
- v. Place signage to inform public of potential hazards to public health and safety; and
- vi. Block public access to hazard using barricades, cones, and caution tape.

Additional response activities may include posting of notices which shall be done as soon as practicable following the initial response to the overflow. Examples of signs are included in Attachment H of the SSOERP.

- f) SSO Prevention and Containment

The City developed the *City of Pomona Operation and Maintenance Program*, included in Appendix C that documents the City's efforts to ensure that the wastewater collection system is routinely and properly maintained and operated in a manner that minimizes the potential for failures and extends the longevity of the system. The City's preventative maintenance program

## Spill Emergency Response Plan

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includes the routine cleaning, inspection, and video taping of the wastewater pipelines and specifically the high frequency maintenance locations.

The SSOERP was developed to facilitate and ensure the proper response to any type of potential SSO occurrence. It includes a strategy for the Wastewater Maintenance Section to mobilize labor, material, tools, and equipment to contain, mitigate, and clean-up residuals from an SSO and correct or repair any condition which may cause or contribute to an un-permitted sewage discharge. Appropriate mitigation measures to contain the SSO and recover spilled sewage to minimize the impact to the public or environment are included. Additionally, City staff will implement monitoring measures and perform a thorough assessment of the site for potential future SSOs and to prevent SSOs from re-occurring. The efforts serve to minimize and correct any adverse impact on the environment that may potentially result from an SSO.

The City has developed a database for sewer easements since the last update in 2013. By creating a GIS shapefile layer in the sewer GIS database, and linked to CCTV videos, scanned records, and maintenance work to these locations. Through Sedaru, staff tracks all infrastructure inspections.

### g) Tracking SSOs

The data displayed on the California Integrated Water Quality System (CIWQS) web site represents SSO reports for individual locations where sewage was discharged from a sanitary sewer system enrolled under the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems Order, WQO No. 2006-0003-DWQ (the Statewide Sanitary Sewer Order). SSO incidents from a sanitary sewer system may result in discharges from multiple locations and have more than one SSO report in the database.

The data used to display the SSO reports on these maps is dynamic and may change without notice, based on the latest information for SSO reports (certified or amended reports only) from individual agencies enrolled under the Statewide Sanitary Sewer Order. The State Water Resources Control Boards provide a hosting service of all SSO reports and have "view only" access to this information.

Utilizing this site, one can geographically see where SSO occurrence has taken place. The SSO is identified by a symbol: a circle or a plus sign. Placing the mouse pointer over that symbol, that distinguishes between Category 1 or 2 spill, will display information about the SSO: City, flow, location, etc. Staff can also access the SSO report filed to get even more information about the SSO. A sample of the site and the report are included in Appendix D.



# Chapter 8

## Element 7 - Design and Performance Provisions

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This chapter of the SSMP discusses the City's design and construction standards and serves to fulfill the Design and Construction Standards SSMP requirement of the WDRs. A copy of the *City of Pomona Sewer Design Policy and Standard Drawings* is included in Appendix G for reference

### 8.1 Regulatory Requirement for Design and Performance Element

The WDRs require that the SSMP include the following:

- a. Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations, and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- b. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

### 8.2 Discussion on Design and Performance Provisions

The City's current design and performance standards are addressed in the existing codes, regulations, ordinances, and permitting procedures that allow the City to require and enforce the proper design, construction, and connections to the City's collection system, and ensure access to City sewer pipelines for maintaining, inspecting, and repairing the system. Also currently used is the City's Public Works Department's *The City of Pomona Standard Drawings*, which was last updated in 2017 and included in Appendix G.

The *City of Pomona Sewer Design Policy and Standard Drawings* were developed to supplement the City's existing codes and sewer design policy, and to provide additional information for the planning and design of wastewater collection facilities within the City of Pomona. The document outlines and describes the relevant City policies, applicable codes, engineering and operation practices, and procedures to plan, design, and build a cost-effective, reliable, and safe wastewater collection system.

To address the components listed above in Section 8.1 and as required by the WDRs, the following subsections provide a summary of the applicable procedures that are currently being evaluated for implementation. Further detailed information of the design and performance standards and guidelines are included in the *City of Pomona Sewer Design Policy and Standard Drawings* in Appendix G.

## **Design and Performance Provisions**

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### a) Design and Construction Standards and Specifications

The requirements for the design and construction of new, rehabilitated, and replaced sewer system facilities, including main, tie-ins, service laterals, cleanout, manholes, and other system appurtenances, are necessary to ensure the proper operation of the sewer system. City Code Chapter 62, Article V, Division 1, from Section 62-391 to Section 62-396 includes the general design and construction requirements for the City's wastewater collection system. The sections include the requirements for sewer connection locations, pipe size, minimum grades, manholes, and construction requirements. All public sewer mains within the City are constructed by the City, under contract to the City, or by a private developer. The City has been using "Standard Plans for Public Works Construction" (Greenbook), prepared by the American Public Works Association.

The *City of Pomona Sewer Design Policy and Standard Drawings* include minimum design standards for sewer mains, sewer manholes, sewer laterals, and general guidelines for common sewer rehabilitation options. Also included are updated standard drawings, specifications, and industry requirements for the planning and design of wastewater infrastructure. Design considerations for wastewater facilities that the City considers non-standard, such as pump or lift stations, force mains, inverted siphons, internal sealing of existing sewers, treatment plants, outfall sewers, energy dissipaters, regulating devices, and/or flow measurement devices, are not included in the *City of Pomona Sewer Design Policy and Standard Drawings* and require prior approval from the City before design can begin.

### b) Inspecting and Testing

Compliance with the sewer design policy requires the contractor performing work on the City's sewer facilities to be responsible for conducting a CCTV inspection for all new and rehabilitated sanitary sewer systems and other appurtenances and submitting a copy of the CCTV report and inspection documentation to the City's Water Operations Manager at least thirty (30) working days in advance of the anticipated date of final construction acceptance. The information provided by the contractor is subsequently reviewed by the City's designated inspector for compliance with City design and construction policies.

# Chapter 9

## Element 8 - System Evaluation and Capacity Assurance Plan

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Identified as an element of the SSMP, the WDRs require each agency to prepare a System Evaluation and Capacity Assurance Plan. This chapter of the SSMP discusses the City's capacity management measures to address the current and future capacity requirements of its collection system and the recommended capacity improvement projects.

### 9.1 Regulatory Requirement for System Evaluation and Capacity Assurance Plan

The WDRs require that the City prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

- a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates for the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.
- d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions for the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D.14 of the WDRs.

### 9.2 Discussion on System Evaluation and Capacity Assurance Plan

The City's previous Sewer Master Plan was prepared in 2005, and was based upon an assessment of the hydraulic capacity of the City's major sewers, and focused on approximately 44 miles of pipelines, ranging from 10 to 30 inches in diameter, and 784 manholes. The wastewater collection system was modeled using H<sub>2</sub>OMAP Sewer Pro, a standalone

## **System Evaluation and Capacity Assurance Plan**

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geographical information system (GIS) based hydraulic model. The City has, since then, developed a current sewer hydraulic under the guise of the 2018 Strategic Plan by calibrating and conducting capacity analysis using InfoWorks ICM (by Innovyze). The ICM model was subsequently converted to InfoSewer v. 7.6 in its final state.

The 2018 hydraulic sewer model is based upon the updated GIS sewer database and is inclusive of sewer mains 8" and larger. Additional components of the sewer system analyzed under the current conditions included the following:

- 514,542 feet or 97.5 miles of sewer pipelines
- 1,630 manholes (includes 6 "outfall" manholes)
- 4 pump stations

At the time of this writing, a full assessment of the model had not been completed. However, as in the case of the 2005 model, an assessment of the hydraulic capacity of major sewers and pump stations will be performed using both dry and wet weather. The system evaluation will be performed to identify improvements necessary to meet the requirements of the Capacity Assurance, Management, Operations, and Maintenance (cMOM) Plan. The 2018 Sewer Master Plan will include a summary of the findings and recommendations to meet the cMOM program assessment requirements and anticipated state or federal regulations.

The model will be used to determine if there are hydraulic capacity deficiencies. To ensure an approach, consistent with industry practices, it is necessary to apply capacity triggers to each model for analysis. Listed below are some of the triggers to be used in Pomona's sewer hydraulic model:

- Hydraulic water freeboard must be less than 5 feet
- No pipelines surcharging or flowing full under Dry or Wet Weather conditions
- (when Hydraulic Grade Line is greater than 2 feet)
- Don't want the HGL elevation to exceed the ground surface elevation of manholes and inlets; this would indicate that flow exist the system at undesirable locations
- Peak weather flow conditions is identified as an rain event that occurs every ten years; this event size is used in standard approach to evaluate the model

The following subsections provide a brief summary of the modeled system, flow estimates, and evaluation criteria used for the City's sewer system capacity evaluation to address the components listed above in Section 9.1 and as required by the WDRs.

### a) Evaluation

The capacity assessment completed as part of the City's 2018 Sewer Master Plan will be based on hydraulic modeling of the City's collection system under current and future design flows. The overall objective of the City's capacity assessment is to avoid capacity related spills. The 2018 sewer hydraulic model will help to identify potential capacity problems in the City's sewer system, identify projects to address potential capacity problems, and determine an approximate completion schedule necessary for implementing the projects.

# System Evaluation and Capacity Assurance Plan

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Since 2005, the City has experienced several spills due to a reduction in maintenance efforts and not due to hydraulic capacity deficiencies in the sewer system. Likewise, the modeling results of the City's 2018 sewer system will need to predict overflows due to hydraulic deficiencies.

## b) Design Criteria:

In keeping with the development of the City's 2018 hydraulic model sewage flow estimates and system capacity, analysis will be evaluated for conformance with industry standard practices as well as for compliance with the WDRs. The evaluation will include a review of dry weather peak flow conditions and identify areas of the model that may require modification and/or expansion. Recommendations for assessing current and future capacity requirements as well as a schedule to complete the modeling scenario simulations will also be included.

The new sewer model will involve a comprehensive evaluation of available flow monitoring and water use data to develop realistic factors for estimating base wastewater flow (BWF), groundwater infiltration (GWI), rainfall-dependent infiltration/inflow (RDI/I), and peak dry and wet weather flows. The Consultant will:

- Utilize the temporary meters placed in various areas of the collection system. Winter water consumption data will also be compared to measure wastewater flows. Analysis of dry weather data will focus on refining flow factors for BWF, developing appropriate values for Dwelling Unit Equivalent (DUE) and per capita flows, and incorporating the anticipated long-term effects of water conservation.
- Build upon previous analyses of wet weather flows to develop RDI/I rates (R-values and hydrograph shapes) for various areas of the City collection system and the anticipated RDI/I contributions from future development.
- Make recommendations for appropriate design criteria for evaluating collection system capacity requirements such as:
  - Type of design storm; in this case, a 10 year rain event is typical
  - The flow in the pipe should be at least 2 feet per second or greater; that is, the flushing velocity must be at least 2 ft/sec or greater to avoid sediment buildup in the pipe
  - The depth to diameter ratio should not exceed .75; if the pipe is flowing full, it could create a whole host of problems

## Hydraulic Model Development

Using existing data in the City's updated GIS database, atlas maps, record drawings, and pump station details, the current model of the sewer collection system was constructed. Some of the steps used in the development of the new sewer hydraulic model are listed below:

- Imported pipe and manhole data from the City's GIS database (e.g. spatial coordinates, manhole identifiers, manhole rim elevations, pipe inverts, diameters, and lengths).



## System Evaluation and Capacity Assurance Plan

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- “Skeletonized” the sewer system to focus the modeling effort on those sewer lines that are most critical with respect to hydraulic capacity, called the “trunk sewer system”. These sewer lines are typically the 10-inch and larger pipes. However, some 8-inch pipes that served relatively large areas (i.e. effectively acting as trunk sewers), were downstream of larger pipes, or serves as system flow splits were also included in the modeled network.
- Validated the network to correct incomplete or erroneous data values. Profiles for pipe segments in the modeled network were reviewed to visually check for suspect data. Refer to the attached record of sewer geodatabase changes.
- Delineated sewer system sub-basins. These represent the un-modeled sewers that discharge flow to the modeled network. Sub-basins were created by dissolving parcels loading to the same model manhole. Each sub-basin therefore discharges to a load manhole, representing the point where base wastewater flow (BWF) and infiltration/inflow (I/I) flows originating from the sub-basin enter the modeled trunk sewer network.
- Loaded average base wastewater flows to each sub-basin to compute based on a sum of the flows from the parcels contained within the sub-basin. Base wastewater flows are comprised of residential and non-residential (e.g. commercial/industrial) flows.
- Assigned diurnal curves and rainfall-dependent infiltration/inflow (RDI/I) parameters to each sub-basin in the model based on its land use characteristics and associated flow meter area.
- Added GWI to each sub-basin during model calibration by comparing the modeled dry weather flow to actual observed flows at the flow meter sites.
- Populated missing GIS data with the best information found in record drawings and on the sewer atlas maps.

### Estimated Wastewater Generation Rates

Estimates for wastewater generation rates are typically prepared using population and land use data. Residential population and non-residential square footage estimates were developed for the existing and build out conditions for the year 2040. For the 2018 model existing conditions, residential population and non-residential square footage were estimated based upon 2010 Census block data, Southern California Association of Governments (SCAG) 2001 estimates, and existing City land use data. Estimates for the build out condition were based upon SCAG growth projections and City planning input. The existing condition residential population and non-residential square footage estimates were compared to temporary flow meter data, collected at 10 locations, to determine unit generation rate factors. Table 9-1 summarizes the unit generation rate factors that were developed in the 2018 Master Plan. These factors are within typical values for cities in Southern California.

**Table 9-1  
Unit Generation Rates**

| Land Use                         | Unit Generation Rate             |
|----------------------------------|----------------------------------|
| Residential                      | 70 gallons per day per capita    |
| Light Industrial & Institutional | 0.04 gallons per day/square feet |
| Other Non-Residential            | 0.08 gallons per day/square feet |

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## System Evaluation and Capacity Assurance Plan

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The unit generation rates were then applied to the estimated residential population and non-residential square footage to develop sewage flow estimates for the build-out condition. Large domestic water users were also identified and point loads were developed as inputs into the model.

The 2018 sewer model incorporated sewer mains 8" and greater to calculate the City's current and projected sewer flows through year 2040 and at build out. It also includes the following sewer collection projection methods: 1) land use based; and 2) population based. The model will developed by comparing the results of the two methods and reconcile them to the City's historic sewer flow data, and data from neighboring cities and sewer districts. The City currently uses a percentage of all potable water usage for sewer discharge projection.

For purposes of creating a hydraulic model and forecasting future sewer flows by development, the model will:

- Develop sewer unit flow coefficients and peak hour factors.
- Develop a sewage unit flow coefficients for each category of land use in the City's General Plan or best available information at the time.
- Develop average day and peak hour unit flow coefficient factors for the different categories of land use.
- Validate the developed factors by comparing them to observed customer sewer flow patterns.

### System Capacity Analysis

The 2018 model will be able to provide the following capacity:

- Verify the City's existing GIS database of collection system information for missing data and physical inconsistencies (connectivity; reverse pipe slopes; missing pipe diameters, slopes, upstream/downstream invert/rim elevations; significant discontinuities in pipe sizes or slopes). The data validation will utilize GIS routines that display the pipe profile to enable graphical review of the data.
- Utilize the sewer watershed modeling areas to estimate flow to support detailed hydraulic modeling and engineering analysis.
- Recommend the optimal number and size of watershed boundaries before delineating sewer watershed modeling areas.
- Estimate sewage flows from the land use data and criteria developed above, with flow monitoring, and with water demands.
- Identify those portions of the sewage system that are overloaded under existing conditions and provide a database that will permit the identification of those portions of sewer system that will become overloaded as additional development occurs.

The 2018 model was calibrated in the following manner:

- For a 7-day dry weather flow (DWF) period (starting on January 29<sup>th</sup>), the calibration periods included both weekdays and weekends.
- For a 7-day wet weather flow (WWF) period (starting on January 18<sup>th</sup>), the calibration periods included both weekdays and weekends.

## System Evaluation and Capacity Assurance Plan

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- The WWF calibration period included two main rainfall events (Jan. 19<sup>th</sup> and Jan. 22<sup>nd</sup>).
- 10 flow meters were used for a 6-week flow monitoring period (mid Jan through end of Feb 2017). Flow data provided in 15-min intervals (flow/depth/velocity).
- Also used 3 rain gauges were used to capture 4 main rainfall events
  - Jan 13<sup>th</sup>
  - Jan 19<sup>th</sup> through Jan. 21<sup>st</sup>
  - Jan. 22<sup>nd</sup> through Jan. 23<sup>rd</sup>
  - Feb. 17<sup>th</sup> through Feb. 19<sup>th</sup>

Prior to running a calibrated model, scenarios are developed to get a better sense of how Pomona's sewer system will respond. Four scenarios would then be applied to the calibrated model to evaluate the impacts to the system. At the writing of this text, not all of the scenarios have been run using the model. The scenarios to be run were as follows and are listed below in order of greater loading:

- #1 - Existing Infrastructure under Dry Weather Conditions
- #2 - Existing Infrastructure under Peak Wet Weather Conditions
- #3 - Future (2040) Infrastructure under Dry Weather Conditions
- #4 - Future (2040) Infrastructure under Peak Wet Weather Conditions

Of the various scenarios mentioned, scenario #4 represents the greatest wastewater loading case for the model. The initial model run, using scenario #4, appeared to reveal that the system has adequate load carrying capacity as it currently exists. Although this is good news, it does not mean that the system cannot be made to operate more efficiently. Closed Circuit Television Video has uncovered a variety of locations wherein system pipelines have been subjected offsets, breaks, or even sags. Sewer lines that have reached to their useful life need to be replaced. There may be legacy sewer lines that are placed under building or structure that needs to be relocated to ease maintenance efforts.

### c) Capacity Enhancement Measures

The new model will be used to identify system deficiencies, generate operations and emergency scenarios, and analyze the impacts from new developments. Given the expected use from the model, the City is motivated to keep it calibrated as things change in the field.

To date, the City has not experienced a hydraulic capacity related SSO. However, there have been several SSOs resulting from decreased maintenance efforts and illegal manhole dumping's. Given that the model has not run all of the scenarios, there can be no finding that there exists sewer system no capacity deficiencies at this time. Therefore, no projects have been identified at this time to repair or address systems capacity deficiencies.

### d) Schedule

Since the model was recently developed, coupled with the lack of scenario runs simulations, no new projects were preliminarily identified as deficient under dry or wet weather conditions. Therefore, no final conclusions can be made at this time. Despite this, a number of projects were completed since the 2005 Sewer Master Plan. These projects were either based

## System Evaluation and Capacity Assurance Plan

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upon leaks, joint offsets, or line sags discovered during CCTV filming and were known as Red Flags. A list of those completed projects is shown below:

| Project Name              | Main Replacement | Construction Number |
|---------------------------|------------------|---------------------|
| Towne Avenue              | 8" VCP           | FB 1312B            |
| Dawson Street             | 8" VCP           | FB 1312C            |
| Hardwood Drive            | 8" VCP           | FB 1312D            |
| Leather Oak Lane          | 8" VCP 8" PVC    | FB 1312E            |
| Rancho Camino Drive       | 4" PVC           | FB 1313             |
| Rio Rancho Road           | 8" VCP           | FB 1327             |
| Ganesha Hills (Phase III) | 8" VCP           | FB 1321A            |
| S/O Dudley                | 8" VCP           | FB 1321D            |
| Fairplex Parking Lot      | 8" VCP           | FB 1321E            |
| Paige Drive               | 8" VCP           | FB 1321F            |
| Paige Drive               | 8" VCP           | FB 1321G            |
| North Hill Road           | 8" VCP           | FB 1321H            |
| Holt Avenue               | 15" VCP          | FB 1356             |
| Fairplex Drive            | 8" & 15" VCP     | FB 1355             |

As we continue to move forward with technology, we have added a new tool to help with the development of future CIP projects. Sedaru's Smart CIP (Smart CIP) software will be used to identify and plan for future CIP projects by integrating its software with the City's GIS system and the sewer hydraulic model. Smart CIP uses a dashboard concept to access information from the GIS database, the sewer hydraulic model analysis, and is much more user friendly.

Smart CIP will be able to extract potential projects by interacting with the model analysis feature. It will base its project selection on Likelihood of Failure, Likelihood of Risk, age, hydraulic capacity deficiencies and the like. From this extraction, a project list will emerge and can then be prioritized. The cost and implementation will then be developed to ensure that the project implementation schedule will be spread over the future years so as not to create a financial burden in any given year. Any financial plan developed will include both internally produced funds and external sources of income. Internal funds may include reserved funds from previous operations or from the sale of revenue bonds. External funds include Federal grants or state loans.

### 9.3 Recommendations for Capacity Assurance Plan

The 2018 sewer model was constructed in such a manner to ensure that key segments of the wastewater collection system were being properly evaluated and for compliance with the WDRs. The model will analyze the City's system of pipelines of 8-inch diameter and larger and took into account the following actions:

## **System Evaluation and Capacity Assurance Plan**

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- Populate the Model with main line invert data to create a more robust GIS database and allow the pipes to be modeled in the future.
- Obtain and incorporate existing and projected hydraulic flow data for the LACSD trunk sewers in order to evaluate whether the trunk sewers produce backwater effects into the City's system.
- Include the 8-inch diameter pipelines and the LACSD trunk sewer data and project peak dry weather and wet weather (10-year storm event) flows.
- Apply industry standard trigger criteria and re-evaluate: (1) recommended projects; (2) potential capacity constraints within the wastewater collection system; and (3) the estimated required completion dates (in order to avoid capacity related SSOs).
- Evaluate funding sources on an annual basis for potential sewer projects. This review is part of the City's annual budgeting process as we are required to submit both an operating and CIP budget for the Water Resources Department.
- Attend and investigate new external funding sources for CIP projects. Events such as the California Financing Coordinating Committee, 2018 Funding Fair Partners workshop may offer some opportunities to grants, for example.

# Chapter 10

## Element 9 – Communication Program

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The primary objective of a Communication Program is to increase public awareness of wastewater collection system issues and to promote a sense of stewardship for the City's system and facilitate its efforts towards the effective and efficient management, operation, and maintenance of the wastewater collection system. This chapter of the SSMP discusses the City's efforts to educate and inform the public and affected agencies regarding the proper use of the City's wastewater collection system.

### 10.1 Regulatory Requirements for Communication Program

The WDRs require the City to communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the City as the program is developed and implemented.

### 10.2 Discussion of Communication Program

The City's Communication Program's efforts to comply with the WDRs and address the development and implementation of this SSMP will serve to educate, inform, and engage key stakeholders, such as agencies served by the City's wastewater collection system or that may be affected by an SSO, and businesses, developers, contractors, vendors, and plumber's whose business could be impacted by specific requirements or elements of this SSMP.

As a result of changes in the City's organization, the duties of the City's Public Information Office (PIO) are handled by Mr. Mark Gluba, Assistant City Manager and/or designee. He will work to coordinate external communications between the City and the public regarding the development and implementation of this SSMP and the various elements. The PIO will be responsible for preparing or reviewing before distributed, and providing pertinent information for news releases, articles, the City's monthly electronic newsletter, and the website. Additionally, the PIO will work closely with the City Council, City departments, news media, the public and affected agencies to assist in promoting an open and frequent exchange of information necessary for the systematic and effective implementation of the various SSMP elements.

The following includes a summary of the City's efforts to educate, inform and engage the public's support and participation in the proper utilization of the City's wastewater collection system and comply with the WDR requirements.

## **Communication Program**

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### *City of Pomona Official Website*

The City's current outreach efforts include maintaining a website (<http://www.ci.pomona.ca.us>) to inform the public about City activities. The City's website is an effective communication channel for providing alerts and news to the public. The main page of the website provides access to various City departments including the Public Information Office, and links to diverse information, important announcements, agendas and minutes for City Council meetings, and other key information for City residents. City staff can utilize the website to publish its SSMP to provide the public the opportunity to view and offer input to the City as the SSMP elements are implemented. As well, the City can utilize the website to notify the public of important upcoming activities related to sewer system management. This information is located on the Water Resources Department home page with links to other programs.

### *City of Pomona FOG Control Program*

The public outreach element included in the *City of Pomona FOG Control Program* includes educating the public on the negative impacts of putting FOG into the wastewater collection system. Providing information via various forms of media is an effective way to engage the public in recognizing the importance of reducing the quantity of FOG introduced to the wastewater collection system and the threat of excessive quantities to the potential and actual occurrence of SSOs. Examples of educational campaigns are included in Attachment G of the FOG Control Program in Appendix F, which includes a flyer advertising that the drain is not a dump for FOG, a door hanger, presented in both English and Spanish, that can be left with residents, and best kitchen practices for businesses. Additionally, an example of text that may be included on a postcard and mailed to residents soon after a FOG related SSO has occurred to alert people to the effort required to clear a blockage and to reinforce not to put FOG down the drain.

### *City of Pomona Spill Emergency Response Plan*

The SERP, in Appendix D, includes a Public Advisory of Sewage Contamination Procedures which includes a description of the action that City staff must take to limit public access to surface waters and other areas that may have been impacted by an Spill as well as notify the public of potential hazardous conditions. Examples of signs that may be posted to provide a warning of potential public health risk are included in Attachment H of the SERP. Additionally, pre-scripted notices are included in Attachment I of the SERP which may be modified to accurately reflect the conditions at the time of publication and/or airing.

Should additional notification of sewage contamination be deemed necessary, City staff is required to, in cooperation with the City's PIO, provide further notices through the use of pre-scripted notices made available to the printed or electronic news media for immediate publication or airing, or by other measures, such as door hangers.

In addition, Wastewater staff will work cross train the City's Street Maintenance and Water Distribution Crews in the basic of spillage containment. Acknowledging that these crews do not have the required equipment to clean up a spill, they would be able to reduce the spillage area if they came across the spillage first.

### *Public Meetings*

Public meetings to discuss the City related issues are held regularly in the City Council Chambers. The City encourages residents to attend City council meetings to become better informed about how the City of Pomona works and various issues. The council meetings provide the residents and concerned citizens a forum to provide the council with input on particular programs through the Public Hearing process, and through the Citizen Participation portion of each City Council meeting. During Citizen Participation, each person who wishes to address the City Council on an item not on the agenda may do so. Certification of the completed SSMP will be required by the City Council during a public city council meeting.

Copies of the Council Agenda are made readily available to the public at the City Clerk's Office, on the website, and in the lobby of the Council Chambers during the meeting. A complete agenda packet is also available for review in the Special Collections section of the Pomona Public Library and at the Council meeting. The City currently is offering live streaming of council meetings, and provides a link to recorded meetings. This information is located on the home page on the City's website.

Project specific meetings may also be convened with community leaders and other citizens to discuss the impacts, schedule and criteria of sewer related projects and efforts. These meetings give citizens a forum to learn about the City's activities, voice their concerns, and receive clarification on a variety of issues. Often the project managers will arrange these meetings.

### **10.3 Public Education and Outreach Media**

A variety of means exist to educate and inform the public regarding impacts to the City's wastewater collection system facilities. The following list identifies several forms of media available for the City to use to educate and inform the public:

- Bi-annual inserts in water and/or sewer bills;
- Press releases;
- Direct mailers;
- Door hangers;
- Brochures distributed at City locations and kiosks;
- Posters and flyers displayed prominently in public areas, such as on buses, libraries, and recreational centers;
- Announcements and notices placed on the City's web site, and social media;
- Advertisements placed in the City's recreation guide,
- Public service announcements on the City's cable television channel; and
- Specific co-sponsored events hosted by the City to educate the public on the effects of Spills to the public and environment such as at an earth day fair, open



## **Communication Program**

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house events, and other appropriate venues. Below is an idea what staff includes at such events:

- Manned a booth to discuss the sewer system with the public attendees
- Illustrations the sewer system and goals of grease free traps placed on posters boards
- Handouts from the Water Environment Federation in Spanish as well (included in Appendix I)
- Future ideas will include having a lap top run a CCTV video

All messages that are communicated to the public should be prepared in English, and, where appropriate, in Spanish and any other dominant language spoken by the target audience. Translation services may be required and anticipated during any educational campaign. Staff from all departments should work closely with the City's Public Information Office to develop appropriate messages, and with which media the messages should be disseminated. Educational activities should occur regularly throughout the year, but the City may consider enhancing education campaigns near holidays when many residents increase their cooking activities, and consequently generate more FOG.

The City will communicate on a regular basis with interested parties on the implementation and performance of this SSMP. The Public Education and Outreach program will allow interested parties to provide input as the SSMP and its elements are developed and implemented.

### **10.3 Satellite Agencies**

Satellite Agencies, as mentioned in this report, refer to those neighboring agencies that convey wastewater into Pomona's sewer system. As it stands today, the following agencies are the satellite systems for Pomona:

- Cal State University, Pomona
- City of Claremont
- City of La Verne
- City of Chino
- Pomona Unified School District
- Chino Basin Municipal Water District

A copy the existing agreements will be placed in the Appendix K.

For communication with other satellite agencies, staff will consider regular coordination meetings, annual surveys for changes in their system, and/or web pages devoted to satellite agency issues. Staff has this interagency cooperation is helpful as in the case of gathering information for the development of the City's FOG program. As of this point, Water Resources Director or his designee will be responsible for satellite agency coordination. This person will ensure that the program is sustained, and that our efforts to get the program up and running aren't wasted once the updated SSMP is completed.

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# Chapter 11

## Element 9 - Monitoring, Measurement, and Program Modifications

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This chapter of the SSMP discusses the parameters the City will utilize to track and monitor the progress of implementing elements of the SSMP, the effectiveness of the SSMP, and how the City intends to update and revise the SSMP to keep it current.

### 11.1 Regulatory Requirements for Monitoring, Measurement, and Program Modifications

The WDRs require the City to:

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

### 11.2 Discussion of Monitoring, Measurement, and Program Modifications

To date, the City has changed the way in which they manage and maintain information pertaining to the wastewater infrastructure. The preventive maintenance activities and documenting notifications received regarding potential and actual SSO occurrences are now inputted electronically in an excel spreadsheet that was developed by staff. This process allows staff to reduce the paper storage issue, allows them the ability to query data, and make the information more easily transferable. The City has tracked performance measures through logs and reports including, but not limited to, the length of pipe cleaned and televised, the quantity, cause and location of stoppages, SSOs, and the scheduled maintenance of high frequency maintenance locations. The City will continue to monitor the performance measures it currently tracks.

To address the components listed above in section 11.1 and as required by the WDRs, the following subsections provide a summary of the procedures to be implemented to properly monitor program progress and implement necessary modifications.

## **Monitoring, Measurement, and Program Modifications**

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(a) Maintain information to establish and prioritize SSMP activities

The City's primary designee will be the Water Resources Director or his designee, responsible to continually monitor the SSMP provisions to ensure that the system is maintained in conformance with the document. As improvements or modifications are identified, the City will implement the necessary adjustments to the program at the earliest practical time.

(b) Monitor the implementation and measure the effectiveness of each SSMP element

As the SSMP elements are implemented and evolve, the City will modify the elements due to new technology, equipment, code changes, specific program enhancements, and the collection system's rehabilitation through implementation of the CIP. The Water Resources Director or designee should identify and recommend updates to this SSMP as part of the City's regular performance measurement assessments.

The following performance parameters may be utilized along with typical industry and EPA performance indicators for the City's system:

1. Pipe age
2. O & M cost/mile/year
3. O & M staff/100 miles
4. Percent of system each year
5. Total annual percent cleaned
6. System cleaning cycle frequency
7. FOG program activities
8. Percent CCTV per year
9. I & I monitoring
10. Planning goals status

(c) Assess the success of the preventative maintenance program

The City developed the *City of Pomona Operation and Maintenance Program* that includes a summary of the City's current procedures and practices as they pertain to the O&M activities and includes recommended changes to augment the City's current activities to facilitate compliance with the WDRs. A comprehensive evaluation of the elements affecting the O&M of the City's wastewater collection system including, but not limited to, system inventory and mapping, the work order process, inspection and assessment of the system including objective standards, CIP project identification process, preventative maintenance procedures, repair and rehabilitation procedures, and training programs is included. Also discussed in the technical memorandum are staffing requirements and work schedules necessary to develop and implement an effective and efficient program for the long term maintenance of its wastewater collection system that satisfies the WDRs. Additional details

## Monitoring, Measurement, and Program Modifications

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relevant to the preventative maintenance efforts are included in the *City of Pomona Operation and Maintenance Program* included in Appendix C for reference.

### Computerized Maintenance Management System

A key component involved in integrating workflow and data flow between the various divisions is the integration of Computerized Maintenance Management System (CMMS)-related technology. It is the desire of the Department to integrate work order systems and asset management systems around GIS.

Currently, there are three software solutions in use throughout City departments that provide functionality of CMMS. One is used by the Finance Department to manage customer billing data, respond to service requests, and issue service orders. Another is used by the Water Distribution Section to issue work orders and store historical work order information. The last one is used by the Wastewater Collections Section to assist in performing closed circuit television (CCTV) inspections and to generate CCTV inspection reports.

The Water Resources Department uses SEDARU and WINCAN for electronic work orders and electronic historical documentation. A CMMS system will be utilized in 2019. Staff is currently obtaining requests for proposals.

One important commonality between the three existing systems is that they all have the ability to integrate with a GIS. For this reason, it is recommended that the main integration between the three systems be accomplished at the database level, using the GIS as the common asset database. Once that integration is accomplished, integrations should be considered to synchronize work order processing between the three systems and to expand asset management systems beyond the Water Distribution Division.

#### (d) Update program elements based on monitoring or performance evaluations

The City will review this SSMP and its elements on a regular basis and update the document with any significant changes. The SSMP must be reviewed, updated, and re-certified at least once every five (5) years as this update stems from the 2013 SSMP. The City's process should include distributing the SSMP to appropriate City staff for review to ensure the most current legal authority, response plans, organizational charts, equipment lists, and contact/notification information is included. Once the City makes operational, maintenance, management, and administrative changes, the City may consider distributing the SSMP to other agencies to perform a peer review of the document. Once recommendations are incorporated into the document, the SSMP will be ready for public dissemination and ultimately for recertification by the Council. The City is responsible for maintaining the SSMP program as required by the Los Angeles RWQCB and will make the SSMP accessible to the public via the City's web site in PDF form.

#### (e) Identify and illustrate SSO trends, including: frequency, location, and volume

The City currently maintains a spreadsheet with information as to the emergency calls received reporting potential and/or actual SSOs. The City will continue to document SSO trends. A sample of the SSO report is included in the Appendix D. Additional information to

## **Monitoring, Measurement, and Program Modifications**

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be included in the documentation process is the frequency and approximate volume of the SSO. The City is efficiently and effectively implementing the measures to properly document and report any SSOs as required by the WDRs.

On a monthly basis, the City is required to certify via e-mail that there are no spills. A sample of the e-mail is included in Appendix D.

### **11.3 SSMP Modifications**

The City must update the SSMP periodically to maintain current information, and modify the programs as necessary to ensure program effectiveness and continual compliance with the WDRs. Information that will be routinely updated includes, but is not limited to, contact names and phone numbers for City staff responsible for implementation of specific SSMP programs, staff on stand-by for SSO response, and approved contractors and vendors. From a practical standpoint, the current SSMP version will be marked up by staff, using track changes, and then reviewed by the necessary people: Environmental/Engineering, Distribution/Wastewater, Water Resources Manager, and the Water Operations Manager will participate in the review and approval of SSMP updates.

As modifications to elements of this SSMP are deemed necessary, the City will implement them at the earliest practical time. However, changes will be officially made to this updated SSMP during the annual or bi-annual update to the document. A comprehensive SSMP update and recertification will occur every five (5) years as necessary and will include any significant program changes. The next recertification of the SSMP will take place in October 2023.

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# Chapter 12

## Element 10 - SSMP Program Audits

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This chapter of the SSMP discusses the City's SSMP Auditing Program.

### 12.1 Regulatory Requirements for SSMP Program Audits

The WDRs require the City to conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two (2) years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the City's compliance with the SSMP requirements identified, including identification of any deficiencies in the SSMP and steps to correct them.

### 12.2 Discussion of SSMP Program Audits

The City will conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. These audits will occur every two (2) years and a report will be prepared and kept on file. Any modifications identified while monitoring the implementation of this SSMP will be officially noted during the SSMP audit to ensure this SSMP is up to date. The audit will be completed internally, and the City may elect to have the audit performed by an appropriate third party auditor or a neighboring agency. The audit may include, but not be limited to:

- Reviewing the progress made on the development of SSMP elements
- Reviewing the status of the SSMP programs implemented
- Identifying the success of various SSMP programs implemented
- Identifying the improvements necessary to various SSMP programs
- Describing system improvements within the two (2) year audit period
- Describing system improvements planned for the upcoming two (2) years
- Reviewing data related to SSO occurrences

### 12.3 SSMP Program Audits

Since the 2013 SSMP update, there have been two audits performed: One by staff and the second by a consultant. The audits were performed in-house in 2015 and 2017.

A copy of the 2015 and 2017 internal audit can be found in Appendix J. Rather than list all of the recommendations for each goal; a copy of the entire report is included in Appendix J. A few of the main points from that report are listed below:

- Updated the organizational charts

## **SSMP Program Audits**

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- Provided a sample of the new GIS Atlas Sheets and Field Modification Forms
- Provided a sample of the CCTV work performed by Tran Consulting

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# **Appendix A Pomona City Code**

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**Excerpts from the City of Pomona City Code, codified through Ordinance No. 4093, adopted October 15, 2007 (Supplement No. 7), pertaining to the wastewater collection system**

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**Chapter 1 – General Provisions**

**Section 1-7. General penalty; continuing violations.**

- (a) In this section "violation of this Code" means any of the following:
- (1) Doing an act that is prohibited or made or declared unlawful, an offense, a violation, an infraction or a misdemeanor by ordinance or by rule or regulation authorized by ordinance.
  - (2) Failure to perform an act that is required to be performed by ordinance or by rule or regulation authorized by ordinance.
  - (3) Failure to perform an act if the failure is prohibited or is made or declared unlawful, an offense, a violation, an infraction or a misdemeanor by ordinance or by rule or regulation authorized by ordinance.
- (b) In this section "violation of this Code" does not include the failure of a city officer or city employee to perform an official duty unless it is specifically provided that the failure to perform the duty is to be punished as provided in this section.
- (c) Except as otherwise provided by law or ordinance, a person convicted of a violation of this Code that is not specifically declared to be an infraction shall be punished as a misdemeanor, with a fine of not more than \$1,000.00, imprisonment in the city or county jail for not more than six months or both such fine and imprisonment.
- (d) A person convicted of a violation of this Code that is an infraction shall be punished by:
- (1) A fine not exceeding \$100.00 for a first violation.
  - (2) A fine not exceeding \$200.00 for a second violation of the same provision within one year.
  - (3) A fine not exceeding \$500.00 for each additional violation of the same provision within one year.
- (e) When a person under the age of 18 is charged with a violation of this Code and a peace officer issues a notice to appear in superior court to that minor, the charge shall be deemed an infraction unless the minor requests that a petition be filed under Welfare and Institutions Code §§ 601, 602.
- (f) Except as otherwise provided by law or ordinance, with respect to violations of this Code:
- (1) That are continuous with respect to time, each day that the violation continues is a separate offense.

(2) That are not continuous with respect to time, each act constitutes a separate offense.

- (g) The imposition of a penalty does not prevent suspension or revocation of a license, permit or franchise or other administrative sanctions.
- (h) Violations of this Code that are continuous with respect to time are a public nuisance and may be abated by injunctive or other equitable relief. The imposition of a penalty does not prevent injunctive relief. (Code 1959, § 1-8; Ord. No. 3945, § 1(16-48), 2-11-2002)

### **Section 1-8 - Severability**

If any section, subsection, sentence, clause, phrase, provision or portion of this Code, or the application thereof to any person or circumstances, is for any reason held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions or provisions of this Code or their applicability to distinguishable situations or circumstances. In enacting this Code, it is the desire of the city council to validly regulate to the full measure of its legal authority in the public interest, and to that end, the city council declares that it would have adopted this Code and each section, subsection, sentence, clause, phrase, provision, or portion thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, phrases or portions thereof might be declared invalid or unconstitutional in whole or in part, as applied to any particular situation or circumstances, and to this end the provisions of this Code are intended to be severable. (Code 1959, § 1-5)

## **ARTICLE X. CODE ENFORCEMENT**

### **DIVISION 1. GENERALLY**

#### **Sec. 2-1161. Authority to cite persons in violation**

- (a) The city council hereby authorizes all officers and employees of the city who have the duty to enforce city ordinances and this Code to cite persons for violation of such ordinances and this Code, pursuant to Penal Code § 836.5, provided such officers and employees have reasonable cause to believe that the persons to be cited have committed misdemeanors and infractions in their presence which are violations of the ordinance or section of this Code which such officers and employees have the duty to enforce and further provided that such officers and employees have satisfactorily completed the peace officers standards and training course provided for in Penal Code § 832.
- (b) The city council further authorizes civilian volunteer patrol members (C.V.P.) of the city to cite parked vehicles for violations of the Vehicle Code, this Code and city ordinances. (Code 1959, § 1-9; Ord. No. 3095, § 1; Ord. No. 3273, § 1; Ord. No. 3794, § 1)



## **DIVISION 2. ADMINISTRATIVE CITATIONS\***

### **Sec. 2-1181. Purpose**

It is the purpose and intent of this division to provide an alternative method of enforcement for violations of this Code and any other city ordinances (collectively referred to as the "Code"). The city council finds that an administrative citation program is an appropriate method of enforcement. (Ord. No. 3950, § 1(5.2-1), 3-4-2002)

### **Sec. 2-1182. Enforcement authority**

The police chief (referred to as the "enforcement official") shall have the authority to administer and enforce this division and to promulgate rules and regulations for uniform policies and procedures to be followed in the implementation of the administrative citation program. In addition, the enforcement official shall have the authority to nullify or void a citation which was issued in error or to the wrong person. (Ord. No. 3950, § 1(5.2-2), 3-4-2002)

### **Sec. 2-1183. Scope**

- (a) For purposes of this division only, the enforcement official has discretion to treat any violation of this Code as an infraction. This division shall apply only to violations of this Code determined to be infractions (referred to as "municipal ordinance violations").
- (b) The procedures established in this division supplement and are an addition to or an alternative to any criminal, civil or other remedy available or established by law or under other sections of this Code. (Ord. No. 3950, § 1(5.2-3), 3-4-2002)

### **Sec. 2-1184. Administrative citation**

- (a) *Issuance.* Except as set out in section 2-1185 for correction conditions, the enforcement official, upon determining that a person has committed a municipal ordinance violation (referred to as "responsible party"), may issue an administrative citation to the responsible party using the procedures set out in this section. As used in this division, the term "responsible party" shall mean the occupant or owner of the property or the person otherwise responsible for complying with Code requirements. The administrative citation shall be served by personal service on the responsible party or by certified mail, return receipt requested, to the responsible party's last known address. The responsible party's refusal to accept the administrative citation shall not affect the validity of the administrative citation or any proceeding undertaken under this division.
- (b) *Contents.* To the extent the following information is reasonably available to the enforcement official, the administrative citation shall:
  - (1) State the date the administrative citation is issued;
  - (2) State the responsible party's name, current residential address, and mailing address;
  - (3) Refer to the Code section violated and describe how the responsible party violated the Code section;
  - (4) State the date the violation was discovered by the enforcement official;

- (5) State the amount of fine imposed for the violation;
- (6) Explain how the responsible party may pay the fine, including the location and manner, as well as the time period by which the fine must be paid and the consequences of failure to pay the fine (i.e., ten working days to pay the fine);
- (7) Explain the procedure for obtaining an administrative hearing; specifically, notice that the responsible party must make a written request within ten working days from the date the administrative citation is issued and that the responsible party will be notified by mail of the date of the hearing;
- (8) Include a warning that a failure to pay the fine and/or failure to appear at a requested administrative hearing may result in the penalties described in section 2-1190(b); and
- (9) Describe the action necessary to correct the municipal ordinance violation and explain that failure to do so may result in the issuance of additional administrative citations and the imposition of additional fines. (Ord. No. 3950, § 1(5.2-4), 3-4-2002)

**Sec. 2-1185. Correction conditions**

- (a) *Issuance of correction notice.* This section shall apply when the municipal ordinance violation pertains to building, plumbing, electrical, landscape maintenance, or other similar structural or zoning issues that do not create an immediate danger to health or safety (referred to as "correction condition").
- (b) *Correction period.* A responsible party shall have a reasonable period of time to correct or otherwise remedy a correction condition prior to the issuance of an administrative citation and the imposition of a fine.
- (c) *Correction notice.* Upon discovery of a correction condition, the enforcement official shall issue a written correction notice to the responsible party by personal service or by certified mail, return receipt requested, to the responsible party's last known address. The responsible party's refusal to accept the correction citation shall not affect the validity or any other proceeding set forth in this division.
- (d) *Correction notice contents.* To the extent the following information is reasonably available to the enforcement official, the correction notice shall:
  - (1) Refer to the Code section violated and describe how the responsible party violated the Code section;
  - (2) Describe the action necessary to correct the municipal ordinance violation;
  - (3) State the final date by which the correction must be completed; and
  - (4) Include a warning that failure to correct the violation may result in the issuance of an administrative citation and imposition of an administrative fine and shall state the amount of the fine to be imposed for the violation.

- (e) *Procedure upon expiration of correction period.* If the responsible party does not remedy the municipal ordinance violation within the period set forth in the correction notice, the enforcement official may issue the responsible party an administrative citation pursuant to section 2-1184. (Ord. No. 3950, § 1(5.2-5), 3-4-2002)

### **Sec. 2-1186. Responsible party's obligations**

Within ten working days from the date the administrative citation is served on the responsible party, the responsible party shall pay the fine amount designated on the administrative citation and may also make a written request for an administrative hearing. The issuance date shall mean the date the administrative citation is released from the official's possession by any of the methods specified in section 2-1184. (Ord. No. 3950, § 1(5.2-6), 3-4-2002)

### **Sec. 2-1187. Administrative fines**

- (a) *Amount.* The amount of administrative fines shall be determined by resolution of the city council, which shall include penalty charges for late payments and increased fines for repeated violations. The fine amounts for infractions set forth in other sections of this Code shall not apply to this division and shall in no way limit the amounts which may be imposed for administrative fines. However, the fine amounts shall not exceed the maximums set forth in Government Code § 53069.4(a)(1).
- (b) *Continuing violation.* Each and every day during any portion of which any municipal ordinance violation is committed, continued, or permitted shall constitute a separate offense.
- (c) *Payment of fine.* The responsible party must pay the administrative fine within ten working days from the date the administrative citation is issued.
- (d) *Obligation to correct violation.* Nothing in this division shall be interpreted to mean that, because a responsible party has paid the administrative fine, he is not required to correct the municipal ordinance violation. Failure to correct the municipal ordinance violation may result in additional fines. (Ord. No. 3950, § 1(5.2-7), 3-4-2002)

### **Sec. 2-1188. Administrative hearing**

- (a) *Ability to contest administrative citation.* Any responsible party to whom an administrative citation has been issued may contest that there was a violation of this Code or that he is the responsible party by filing a written request with the enforcement official for a hearing within ten working days from the date of issuance of the administrative citation. Such request shall be accompanied by payment of the administrative fine or notice that a request for a hardship fee mitigation has been filed pursuant to section 2-1187(a). The enforcement official shall set a date for a hearing within 30 calendar days of the request.
- (b) *Notification of hearing.* At least ten working days prior to the date of the hearing, the city shall, by certified mail, return receipt requested, or personal service, give notice to the responsible party of the time, date and location of the hearing. The city also shall provide the responsible party in advance with any materials provided to the hearing officer.
- (c) *Hearing officer.* Appointment and responsibilities of the hearing officer shall be in accordance with the following:

- (1) The city manager shall appoint a person who shall preside at the hearing and hear all facts and testimony presented and deemed appropriate (referred to as the "hearing officer").
  - (2) Any person designated to serve as a hearing officer is subject to disqualification for bias, prejudice, interest, or for any other reason for which a judge may be disqualified pursuant to Code of Civil Procedure § 170.1. The responsible party may challenge the hearing officer's impartiality by filing a statement with the city manager objecting to the hearing before the hearing officer and setting forth the grounds for disqualification. The question of disqualification shall be heard and determined in writing by the enforcement official within 30 days following the date on which the disqualification statement is filed.
- (d) *Administrative hearing procedures.* Administrative hearing procedures are as follows:
- (1) The administrative hearing is intended to be informal in nature. Formal rules of the Evidence Code and discovery shall not apply, except that irrelevant and unduly repetitious evidence may be excluded at the hearing officer's discretion.
  - (2) Each party shall have the opportunity to offer testimony and evidence and cross examine witnesses in support of his case.
  - (3) Pursuant to Penal Code § 196, a responsible party shall not be entitled to a jury for an infraction charge, nor shall a responsible party be entitled to have the public defender or other counsel appointed at public expense to represent him.
  - (4) The hearing officer may continue the hearing or request additional information from either side.
- (e) *Administrative order.* The administrative order shall be issued in accordance with the following:
- (1) Within ten working days of the conclusion of the hearing, the hearing officer shall provide the responsible party with his decision in writing (referred to as "administrative order"). The hearing officer shall provide the responsible party with the administrative order by personal service or by certified mail, return receipt requested, to the responsible party's last known address.
  - (2) The administrative order shall contain the hearing officer's reasons for the decision and the procedure described in Section 2-1189 for seeking judicial review.
  - (3) A decision in favor of the responsible party shall constitute a dismissal of the municipal ordinance violation. The city shall promptly return any monies paid by the responsible party.
  - (4) If the hearing officer renders a decision in favor of the city, the responsible party must comply with the administrative order or seek judicial review of the administrative order pursuant to section 2-1189.
- (f) *Failure to attend administrative hearing.* The effects of failing to attend the administrative hearing are as follows:

- (1) *Waiver of right of hearing.* The responsible party's failure to appear at a hearing shall constitute a waiver of the right to a hearing, a forfeiture of the fine, and a failure to exhaust administrative remedies.
- (2) *Good cause.* Upon a showing of good cause by the responsible party, the hearing officer may excuse the responsible party's failure to appear at the hearing and reschedule the hearing. Under no circumstances shall the hearing be rescheduled more than one time. (Ord. No. 3950, § 1(5.2-8), 3-4-2002)

### **Sec. 2-1189. Judicial review**

If an administrative order is rendered in favor of the city pursuant to this division, the responsible party may seek judicial review of the administrative order by doing one of the following:

- (1) Appeal the administrative order pursuant to Government Code § 53069.4 within 20 calendar days after service of the administrative order. Pursuant to Government Code § 53069.4, the appealing party shall serve a copy of the appeal notice in person or by first class mail upon the city. Appeal notices shall be sent to the city clerk. If no appeal notice is filed within the 20-calendar-day period, the decision shall be deemed confirmed and final; or
- (2) File a petition for a writ of mandate pursuant to Code of Civil Procedure §§ 1094.5--1094.8 within 90 calendar days after service of the administrative order. (Ord. No. 3950, § 1(5.2-9), 3-4-2002)

### **Sec. 2-1190. Failure to comply**

- (a) *Definition.* As used in this section, the term "default" shall mean any of the following occurrences:
  - (1) The responsible party fails to either pay the administrative fine within ten working days from the date the administrative citation is issued.
  - (2) The responsible party fails to either comply with the administrative order or to seek judicial review of the administrative order.
- (b) *Late penalty.* The occurrence of a default may result in the city increasing the administrative fine, not to exceed the maximum amounts set forth in the council resolution adopted pursuant to section 2-1187(a).
- (c) *Account receivable.* Upon the occurrence of a default, the city may treat the administrative fine or penalty fine, whichever is applicable, as an account receivable, subject to the established policy for delinquent accounts receivable.
- (d) *Misdemeanor.* Except for the failure to pay an applicable administrative fine, a default shall constitute a misdemeanor punishable by a maximum fine of \$1,000.00 or six months in jail or both.
- (e) *Collection.* The city may use all appropriate legal means to collect the fines imposed pursuant to this division.

- (f) *Lien against property.* The city council may pass a resolution to place a lien on the real property upon which the violation occurred to collect any unpaid administrative and/or penalty fines as a special assessment against the real property. The resolution shall further direct that the city clerk shall file with the county auditor and the county tax assessor and tax collector certified copies of the resolution. The clerk shall direct the auditor to enter the amounts of the fines against the real property described in the resolution as it appears on the current assessment roll. The amount of the fines shall constitute a lien against the real property against which the fines have been imposed. The tax collector shall include the amount of the fines on bills for taxes levied against the real property. Thereafter, the amount of the charges shall be collected at the same time and in the same manner and by the same person as, together with and not separately from, the general taxes for the city and shall be subject to the same penalties and interest upon delinquent payment. (Ord. No. 3950, § 1(5.2-10), 3-4-2002)

**Sec. 24-1. Public Health Code adopted.**

- (a) The City of Pomona hereby adopts as its own Public Health Code, Chapter 8.04 of Title 8 and Titles 11 of the Los Angeles County Code as they are now constituted as of April 26, 2005 and as amended in the future, to the extent that they do not conflict and/or are inconsistent with the Pomona City Charter and Code as it is now constituted and as amended in the future.
- (b) A copy of the pertinent titles of the Los Angeles County Code as constituted as of April 26, 2005 and as amended in the future shall be on deposit in the office of the city clerk and shall be maintained by the city clerk for use and examination by the public. (Ord. No. 4047, § 2, 11-21-2005; Ord. No. 4048, § 1, 12-5-2005)

## **Chapter 62 – Utilities**

### **ARTICLE V. SEWAGE DISPOSAL\***

#### **DIVISION 1. GENERALLY**

##### **Sec. 62-391. Definitions.**

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Domestic* refers to single- and multiple-residential units, stores, offices, schools, places of public assemblage, garages, service stations and other commercial establishments.

*Sewage* includes the following:

- (1) Sewage, garbage, feculent matter, offal, refuse and filth.
- (2) Any animal, mineral or vegetable matter or substance that is offensive, injurious or dangerous to health.

*Sewer* includes the following:

- (1) Main trunk or outfall, interceptor and lateral sewers.
- (2) Catchbasins, flush tanks, manholes, reception basins and all other appurtenances thereto that may constitute a sewer system. (Code 1959, § 27-1; Ord. No. 910, §§ 320, 321 and 322)

##### **Sec. 62-392. Connections with trunk and outfall lines.**

Connection of lateral lines to a main trunk or outfall sewer shall be made at points and in the manner determined by the director of public works/city engineer and subject to such terms and conditions as the city council may prescribe. (Code 1959, § 27-3; Ord. No. 910, § 324)

##### **Sec. 62-393. Size of lateral lines; house connections.**

(a) To obtain good depth and velocity of flow, but of sufficient size to prevent undue stoppage, eight inches shall be the minimum diameter for all lateral sewer lines.

(b) To prevent the introduction, accidental or otherwise, of articles of an injurious nature, all house connections shall be restricted to a minimum inside diameter of four inches. (Code 1959, § 27-4; Ord. No. 910, § 325)

##### **Sec. 62-394. Grades.**

In order to prevent, so far as possible, the formation of deposits, the minimum grade for sanitary sewers shall be such as to provide a velocity of not less than two feet per second when the sewer is flowing full or half full, in order that during periods of low flow an actual velocity of 1 1/2 feet per second may prevail. (Code 1959, § 27-5; Ord. No. 910, § 326)

**Sec. 62-395. Manholes generally.**

- (a) All sewer manholes shall be constructed according to designs and specifications approved by and on file with the director of public works/city engineer.
- (b) Manholes shall be placed at all sewer junctions, at every change of grade or alignment, and at distances not greater than 400 feet on sewers of constant diameter and having a straight line gradient and alignment; provided, however, a manhole shall be made available for sampling and measurement of flow of industrial wastes before their discharge into a sanitary sewer. (Code 1959, § 27-6; Ord. No. 910, § 327)

**Sec. 62-396. Dumping in manholes.**

It shall be unlawful for any person to dump anything in a manhole unless the person has been issued, by the director of public works/city engineer, a permit to dump in the manhole, which permit permits the dumping and states what is permitted to be dumped. The permit shall expire on January 1 of each year; however, each permit shall be subject to recall at any time by the director of public works/city engineer in order to change the manhole in which dumping is permitted. The director of public works/city engineer shall provide an application form for the permit and shall provide such information as shall be necessary to protect the city sewer system. It is declared that any person violating this section shall be guilty of a misdemeanor. (Code 1959, § 27-7; Ord. No. 1224)

**Sec. 62-397. Construction of sewers generally.**

- (a) Any sewer built in the city shall be constructed in compliance with the provisions of specifications approved by the director of public works/city engineer and the provisions of any other city ordinance applicable thereto.
- (b) As a requirement of a lot split, subparcel, parcel map, subdivision, or building permit, the director of public works/city engineer may require a main sewer and sewer laterals to be constructed to serve each possible lot that can be created from each parcel created by the lot split, subparcel, parcel map, or subdivision or parcel built upon, under the zoning district in which the parcel is located at the time of the approval of the lot split, subparcel, parcel map, or subdivision or the issuance of the building permit. (Code 1959, § 27-8; Ord. No. 910, § 329; Ord. No. 2322, § 1 (part))

**Sec. 62-398. Sewer construction permit, connection permit and inspection fees.**

- (a) Any person or his duly authorized representative who makes, causes, permits, or allows to be made any connection to a sanitary sewer shall first apply for and be issued a permit by the director of public works/city engineer. Such permit shall be for a single sewer connection.
- (b) Any person or his duly authorized representative, who makes, causes, permits, or allows to have a sewer line constructed or who desires to make any connection to a sanitary sewer shall first apply for and be issued a permit therefor by the director of public works/city engineer. If any of the work to be done is located within a street travel way, the permit will be issued only to a contractor licensed to perform this type of work.



- (c) There shall be a permit issued for every sewer built or connection made, and a sum equal to three percent of the estimated cost of the sewer, as computed by the director of public works/city engineer, shall be charged to cover the cost of inspection. A minimum charge for inspection services shall be as determined by resolution. If a sewer is built for any other governmental agency and no city inspection is required, the inspection fee may be waived.
- (d) If there is no record of a property being connected to the city's sanitary sewer system, the city may, at the written request of the property owner, perform a dye test to certify the property being connected to an existing sanitary sewer. Such dye test will be performed by the city upon payment of a fee as determined by resolution.
- (e) After payment of the prescribed fees and deposits in the manner provided, the director of public works/city engineer may issue a permit to construct a domestic sanitary sewer or to construct a sewer connection. Such permit shall be issued in quadruplicate; one copy shall be filed by the director of public works/city engineer, one copy shall be delivered by the permittee to the office of the plumbing inspector, one shall be sent to the sewer inspector, and the original shall be retained by the permittee. However, all work done pursuant to each permit shall be in compliance with the provisions of all other ordinances and sections of this Code that may be applicable thereto.
- (f) Any person who makes, causes, permits, or allows to be made any domestic connection to a sanitary sewer without first having applied for and been issued a permit therefor by the director of public works/city engineer is guilty of a misdemeanor.
- (g) Any person who makes, causes, permits, or allows to be made any domestic connection to a sanitary sewer and fails, refuses or neglects to apply for and be issued a permit therefor by the director of public works/city engineer shall be assessed an additional 100 percent of the fixed fees and deposits for such connection, which penalty shall be added thereto and shall be collected with the fees and deposits. (Code 1959, §§ 27-9--27-13; Ord. No. 910, §§ 340--344; Ord. No. 1539, § 4; Ord. No. 2322, § 1 (part); Ord. No. 2872, § 1; Ord. No. 2969, § 1; Ord. No. 3354, § 1)

**Sec. 62-399. Connection charges and deposits.**

- (a) A connection charge is levied so as to provide from the private property served by the sewer lines a contribution to the cost, maintenance, and upkeep of the line for the benefit that will be received by the private property connecting to the sewer line, which is determined by the council to be equal to the charge levied by this section.
- (b) If the real property to be connected has an existing city or sanitation district sewer running adjacent to its front or rear lot lines and the boundary lines thereof are substantially parallel, the connection fee shall be based upon distances measured parallel to the lot line nearest to and parallel with the sewer line; but where the boundary lines are not substantially parallel, the connection fee shall be based upon the average width of such lot or parcel of land as determined by the director of public works/city engineer. However, the connection fee shall cover only that portion of the property which is within 150 feet from the street front of the property, and the remainder of the property shall be charged a connection fee based upon acreage. A corner lot shall be charged for its addressed street front width if the sewer line is in the side yard street. Lots which have access to a street by a narrow strip or easement shall be charged on the portion of the lot that can be developed.

- (c) The director of public works shall update and charge appropriate fees as approved by the city council by resolution.
- (d) The director of public works/city engineer shall not permit a private sewer connection to the sewer lines without there being paid to the city treasurer the sum determined in this section, which sum shall be deposited in the sewer construction fund.
- (e) The amount of any sewer connection fee shall be deemed a debt owing to the city, and any person who connects to a street sewer without having paid the connection fee in full or any portion thereof as provided in this section shall be liable to any action in the name of the city in any court of competent jurisdiction for the amount of such fee. The conviction and punishment of any person for connecting to a street sewer without obtaining a permit to do so shall not relieve such person from paying the connection fee due and unpaid at the time of such conviction, nor shall the payment of any connection fee prevent a criminal prosecution for the violation of any of the sections of this article. All remedies prescribed under this subsection shall be cumulative, and the use of any one or more remedies shall not bar the use of any other remedy for the purpose of enforcing this article.
- (f) The director of public works/city engineer shall require a sum to be deposited with the city treasurer that will cover the cost of replacing the surface of any street, alley, or sidewalk that may be damaged or destroyed by the construction of the sewer line or private connection.
- (g) The property owner shall also be responsible for maintaining the house connections up to and including the connection to the sewer line. (Code 1959, §§ 27-14--27-16; Ord. No. 910, § 341; Ord. No. 1292, § 1; Ord. No. 1539, §§ 1, 2, 5; Ord. No. 2322, § 1 (part); Ord. No. 2969, § 2; Ord. No. 3354, § 2)

**Sec. 62-400. Sewer service charge.**

- (a) Effective at the beginning of the first billing period on/or subsequent to the first day of July 1, 2003, and continuing thereafter until changed by resolution of the city council, there is hereby imposed a service charge for sewer use comprised of a fixed charge and a volumetric charge.
  - (1) The "fixed charge" shall be a set fee established by resolution of the city council and adjusted as set forth in subpart (b) and (c) below.
  - (2) The "volume charge" shall be computed by multiplying the volumetric charge rate, as established by resolution and adjusted by paragraphs (i), (ii) and (iii) below, by each 100 cubic feet (hcf) of water consumed ("volumetric data"), regardless of whether the sewage be generated from residential, commercial or industrial land uses, except that single family residential use shall be on a "winter-months basis" as defined below. Volumetric data for residential, commercial and industrial sewer users shall be based upon records of water consumption available to the City of Pomona for each sewer customer location. Such data shall be compiled by the city utilizing water consumption records for each sewer user location, regardless of water provider or duration of service to such sewer user.

- i) For City of Pomona single-family residential water customers, each July 1, the "winter months' basis" for each such user shall be calculated, where such basis is defined as an average of two complete months data within the period of December of the previous year through the following March. The city may utilize historical data of prior users at such location for such computation if insufficient data exists for said at such location until appropriate data is established.
- ii) For all other City of Pomona water customers, volumetric data shall be computed on a bi-monthly basis. Where insufficient data initially exists, the city may utilize historical data at such users location for such computation without regard to the duration of use by said customer at said location until appropriate data is established.
- iii) For all City of Pomona water customers, where volumetric data is not available, due to a loss of data, or other occurrence, the city shall use the lesser of the average for all similarly situated customers in the city or the 12-month average for the prior user as such location. This process would apply to a new or incoming user until a 12-month review period or winter-months basis (as applicable) has been determined. Such calculation shall be used until the appropriate data is established for normalized calculation.
- iv) For City of Pomona sewer users who receive water service from a provider other than the City of Pomona ("Non-Pomona water customer"), where volumetric data is not available to the City of Pomona, aggregated data available from the water service provider will be used to establish an average user volumetric data consumption amount ("aggregated average"). For residential customers, the aggregated average will be computed to establish an aggregated winter months' basis each July 1 for the Non-City of Pomona water service area in which that address is situated. For all other customers, the aggregated average will be computed to establish an aggregated average based on industrial and commercial users respectively each July 1 by averaging the previous 12 months data for each such use in each non-City of Pomona water service area in which that address is sited.
- v) Nothing in this section shall prevent any Non-Pomona water customer from providing or authorizing release of water records to the City of Pomona for computation of more accurate volumetric water data ("released records"). Released records shall be used to provide volumetric data to calculate adjusted volume sewer charges in accordance with procedures for calculating city provided water customers. Such adjusted volume sewer charges will become effective the billing period following release of such data. A Non-Pomona water customer's released records shall be removed from any calculation of any aggregated average for the following computation period. Any City of Pomona sewer user authorizing release of water records from a non-city water provider to the City of Pomona shall agree that such authority to release will remain effective for a period of no less than five years and continue in effect until written notice is received by both the water service provider and the city rescinding such authorization by said user. In the event a Non-Pomona water customer rescinds the city's access to released records, volume sewer charges for volume sewer charges for such Non-Pomona water customer shall be calculated by the method described in subpart iv) above.

- (3) The sewer service charge shall be invoiced and collected bi-monthly in the same manner as the water service charges are billed within the city or in such manner as the city council shall determine. For partial payment of utility billing, the utility services director reserves the right to credit any monies remitted for payment of sewer service charges. The city council reserves the right to adjust the sewer service charges for actual discharge and metered usage or other special circumstances. Nothing in section 62-400(a) shall cause any written agreement between a City of Pomona water and/or sewer customer and the City of Pomona relating to sewer service charges existing and in force at the time of adoption of such section to be abrogated.
- (b) Notwithstanding any other section of this Code, the fees and charges set forth in this section shall be automatically updated annually on January 1 each year, beginning January 1, 2004, by an adjustment of all rates and fees contained in this section as follows: The annual adjustment shall be made by multiplying each rate and fee included in the fee resolution by the Los Angeles-Long Beach Consumer Price Index for All Urban Consumers of the preceding July and by dividing the result of such multiplication by the same index of the July of the prior year, as reported by the CPI Detailed Report, Bureau of Labor Statistics. The result of the calculations shall be rounded to the next lower cent and added to the old rate to become the rate and the amount for the ensuing year. The new rates shall be effective on January 1 without further approval by the city council.
- (c) Additionally, on January 1 of each year beginning January 1, 2004, the fees and charges set forth in this section shall be updated annually for the following expenses:
- (1) Federal and state water quality requirements;
  - (2) Cost of purchased water adjustments;
  - (3) Groundwater basin replenishment assessments and other costs; and
  - (4) Other extraordinary operating expenses which exceed the Consumer Price Index adjustment. (Code 1959, § 27-8.5; Ord. No. 3867, § 1; Ord. No. 3973, § 1, 1-27-2003; Ord. No. 4075, § 5)

**Sec. 62-401. Compliance with other sewage discharge restrictions and requirements.**

All persons shall comply with all sewage discharge restrictions and other requirements of the county sanitation district and the United States, the state and the city.

## **DIVISION 2. SERVICE OUTSIDE OF CITY**

### **Subdivision I. In General**

#### **Sec. 62-421. Compliance for industrial waste.**

Industrial liquid waste pretreatment facilities or industrial sewage treatment plants and all appurtenances thereto shall conform with all sections of this article and those of the California Plumbing Code as well as any regulations of the appropriate state or local agency that may be applicable thereto. (Code 1959, § 27-52; Ord. No. 910, § 356)

#### **Sec. 62-422. Additions to facilities; permit.**

If an existing industrial liquid waste pretreatment facility or industrial sewage treatment plant is added to or altered because of a change of use, a permit shall be secured in accordance with this article before commencing work thereon. The completed work shall be accepted only when the entire plant shall meet all of the requirements for new facilities as provided in this article, except that existing facilities, used and undisturbed, may not be rejected because they are not new. (Code 1959, § 27-53; Ord. No. 910, § 357)

#### **Sec. 62-423. Maintenance and operation of facilities.**

All industrial liquid waste pretreatment facilities or industrial sewage disposal plants and all appurtenances thereto, existing or constructed, shall be maintained and operated by the owner of the property affected in a safe and sanitary condition. All devices and safeguards for the operation thereof shall be maintained in good working order. This section shall not be construed as permitting the removal or non maintenance of any device or safeguards on existing facilities unless authorized in writing by the director of public works/city engineer. (Code 1959, § 27-54; Ord. No. 910, § 358)

#### **Sec. 62-424. Fees.**

- (a) The council prescribes a fee set by resolution as a charge for services and facilities furnished by the city outside its territorial limits in connection with its sewer system.
- (b) The charge shall be paid annually and be the sum set by resolution of the city council per year for each connection to the city sewer system on all connections of private property owners made outside of the territorial city limits.
- (c) The money collected from charges imposed by this division shall be used for the acquisition, construction, reconstruction, and maintenance and operation of sewage facilities. (Code 1959, §§ 27-17, 27-18; Ord. No. 1537, §§ 1, 2; Ord. No. 2163, § 1; Ord. No. 2322, § 1 (part))

#### **Sec. 62-425. Prescribed contracts for service.**

Before any connection is made to a city sewer facility outside the territorial city limits by a private property owner, the property owner shall execute the following contract, and the contract shall be acknowledged and recorded:

The undersigned, being the owner of the following described real property, agrees to pay to the City of Pomona the prescribed fees, tolls, rates, rentals, or other charges for services and facilities furnished by the City of Pomona in connection with its sewer system as prescribed by ordinance of the City of Pomona as now adopted, or as hereafter may be adopted by the Council of the City of Pomona. The undersigned agrees that the City of Pomona can sever, without notice, the sewer connection if the prescribed fees, tolls, rates, rentals or other charges are not paid as prescribed by ordinance of the council of the City of Pomona. It is understood and agreed that the City of Pomona has the power to discontinue the furnishing of sewage facilities to the following described real property at any time when done by ordinance of the council of the City of Pomona adopted by a three-fifths vote of the council. The real property being served by the City of Pomona with sewer facilities under this agreement is described as follows:

(Description)

Dated this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Owner

STATE OF CALIFORNIA (COUNTY OF LOS ANGELES)

On \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned, a Notary Public, in and for said County and State, personally appeared \_\_\_\_\_ known to me to be the person whose name is subscribed to the within instrument and acknowledged that \_\_\_\_\_ he executed the same.

\_\_\_\_\_  
Notary Public in and for said County and State

WITNESS MY HAND & OFFICIAL SEAL:

\_\_\_\_\_  
(Code 1959, § 27-19; Ord. No. 1537, § 3; Ord. No. 2322, § 1 (part))

## **Subdivision II. Collection of Charges**

### **Sec. 62-441. Filing of report of charges.**

- (a) The charges prescribed in this division for each forthcoming fiscal year shall be collected on the tax roll in the same manner and by the same persons and at the same time, together with and not separately from its general taxes. The director of public works/city engineer is directed to prepare a written report and file it with the clerk on or before June 30 of each year. The report shall contain a description of each parcel of real property receiving such service and facilities and the amount of the charge for each parcel for the year, computed in conformity with the charges prescribed in this division.
- (b) The real property may be described by reference to maps prepared in accordance with Revenue and Taxation Code § 327 and on file in the office of the county assessor or by reference to plats or maps on file in the office of the clerk. (Code 1959, § 27-20; Ord. No. 1537, § 4)

### **Sec. 62-442. Notice of filing of report of charges required**

- (a) The clerk shall cause notice of the filing of the report pursuant to section 62-441 and of a time and place of hearing thereon to be published pursuant to Government Code § 6066 prior to the date set for the hearing in a newspaper of general circulation printed and published within the city.
- (b) Before the city may have such charges collected on the tax roll, the clerk shall cause a notice in writing of the filing of the report proposing to have such charges for the forthcoming fiscal year collected on the tax roll and of the time and place of hearing thereon, to be mailed to each person to whom any parcel of real property described in the report is assessed in the last equalized assessment roll available on the date the report is prepared at the address shown on the assessment roll or as known to the clerk. If the council adopts the report, the requirements for notice in writing to the persons to whom parcels of real property are assessed shall not apply to hearings on reports prepared in subsequent fiscal years, but notice by publication as provided in this section shall be adequate. (Code 1959, § 27-21; Ord. No. 1537, § 5)

### **Sec. 62-443. Hearing on report**

- (a) At the time stated in the notice given pursuant to section 62-442, the city council shall hear and consider all objections or protests, if any, to the report referred to in the notice and may continue the hearing from time to time. If the council finds that protest is made by the owners of a majority of separate parcels of property described in the report, the report shall not be adopted, and the charges shall be collected separately from the tax roll and shall not constitute a lien against any parcel of land.
- (b) Upon the conclusion of the hearing, the council may adopt, revise, change, reduce or modify any charge or overrule any or all objections and shall make its determination upon each charge as described in the report, which determination shall be final. (Code 1959, § 27-22; Ord. No. 1537, §§ 6, 7)

**Sec. 62-444. Filing copy of final report with county tax collector**

On or before August 10 of each year following the final determination of the city council pursuant to this subdivision, the clerk shall file with the county tax collector a copy of the report with a statement endorsed thereon over his signature that it has been finally adopted by the council. The county tax collector shall enter the amount of the charges against the respective lots or parcels of land as they appear on the current assessment roll. If the property is not described on the roll, the county tax collector may enter the description thereon, together with the amounts of the charges, as shown on the report. (Code 1959, § 27-23; Ord. No. 1937, § 8; Ord. No. 2322, § 1 (part))

**Sec. 62-445. Method of collecting charges**

The amount of the charges imposed under this division shall be collected at the same time and in the same manner and by the same persons as, together with and not separately from, the general taxes for the city and shall be delinquent at the same time and thereafter be subject to the same delinquency penalties. (Code 1959, § 27-24; Ord. No. 1537, § 11)

**Sec. 62-446. Inclusion of charges in tax bill**

The tax collector shall include the amount of the charges on bills for taxes levied against the respective lots and parcels of land pursuant to this division. (Code 1959, § 27-25; Ord. No. 1537, § 10)

**Sec. 62-447. Lien**

The amount of the charges imposed pursuant to this division shall constitute a lien against the lot or parcel of land against which the charges have been imposed as of 12:00 noon on the first Monday in March immediately preceding the date of levy. (Code 1959, § 27-26; Ord. No. 1537, § 9)

**Sec. 62-448. Applicability of other laws**

All laws applicable to the levy, collection and enforcement of general taxes of the city, including but not limited to those pertaining to the matters of delinquency, correction, cancellation, refund and redemption, are applicable to the charges imposed pursuant to this division. (Code 1959, § 27-27; Ord. No. 1537, § 12)



### **DIVISION 3. SAND AND GREASE TRAPS\***

#### **Sec. 62-471. Grease interceptors required for packing plants and certain other establishments**

In order to prevent clogging of waste lines with grease and to prevent large quantities of grease from reaching the disposal plant, grease interceptors shall be installed in all packing plants and in any other establishment that may be a source of food fats and greases. (Code 1959, § 27-28; Ord. No. 910, § 335; Ord. No. 2322, § 1 (part))

#### **Sec. 62-472. Installation of grease interceptors**

All grease interceptors shall be installed as near as possible to fixtures discharging greasy waste and in such a manner that the top shall be easily accessible for cleaning. The discharge pipe shall be properly vented to prevent siphonage of the interceptor contents and in compliance with the California Plumbing Code. (Code 1959, § 27-29; Ord. No. 910, § 335)

#### **Sec. 62-473. Capacity of grease interceptors**

Every grease interceptor shall have a minimum rate of flow capacity adapted to the fixture to which it may be connected and an accumulated grease capacity large enough that its average efficiency will not drop below 90 percent at the end of a normal cleaning period. (Code 1959, § 27-30; Ord. No. 910, § 335)

#### **Sec. 62-474. Cleaning of grease interceptors**

All grease interceptors shall be inspected at regular intervals by the plumbing inspector and cleaned by the owner or operator at least once each week and more often if necessary to maintain the required efficiency of grease removal. (Code 1959, § 27-31; Ord. No. 910, § 335)

#### **Sec. 62-475. Sand traps required for certain establishments**

In all establishments equipped with wash racks, floor drains, or wash tanks for cleaning machined parts or other material, there shall be installed sand boxes of an approved type and having such a capacity that the flow-through velocity shall be not greater than one foot per second, for the interception of mud, sludge or grease. (Code 1959, § 27-32; Ord. No. 910, § 336)

#### **Sec. 62-476. Installation of sand traps.**

All sand boxes required under this division shall conform to and be installed in accordance with the California Plumbing Code. (Code 1959, § 27-33; Ord. No. 910, § 336)

#### **Sec. 62-477. Cleaning of sand traps**

All sand boxes required under this division shall be inspected at regular intervals by the plumbing inspector and cleaned by the owner or operator at least once each week and more often if necessary to maintain the required efficiency of grease, mud or sludge removal. (Code 1959, § 27-34; Ord. No. 910, § 336)

## **DIVISION 4. INDUSTRIAL WASTES\***

### **Subdivision I. In General**

#### **Sec. 62-501. Acceptance under special permit**

Should there exist the available sewage treatment capacity, industrial wastes that are acceptable as to analysis and population equivalent but in excess of the proportional amount for a certain industry, may be accepted for disposal under a special permit whereunder the industry shall agree to bear the entire cost of such excess disposal. If such disposal facilities should become overloaded, the director of public works/city engineer may, with the approval of the state agency having jurisdiction, upon 90 days' notice of intention, terminate any such special permit. (Code 1959, § 27-35; Ord. No. 910, § 350)

#### **Sec. 62-502. Proportional use of city sewers**

Any industry which lies within or partly within the city for which sewerage is available and whose wastes have been determined to cause no damage to the system or unjustifiable expense to other users shall have a right to a proportional use of any available capacity of such sewerage and treatment plant maintained by the city. (Code 1959, § 27-46; Ord. No. 910, § 351)

#### **Sec. 62-503. Proportional use defined.**

Proportional use, as used in this division, is the amount per capita of domestic sewage, normal as to volume, suspended solids and biochemical oxygen demand which shall be equated to the basis of \$1,000.00 of assessed valuation and shall constitute one unit of industrial waste. Any industry whose wastes are in compliance with this division and for which there exist available sewerage and disposal capacity may discharge to the sewers as many such units of waste as there are whole units of \$1,000.00 each in such industry's assessed valuation as lies wholly within the city or in the assessed valuation of such part thereof as may lie within the city limits. (Code 1959, § 27-47; Ord. No. 910, § 351)

#### **Sec. 62-504. Approval of disposal requirements prerequisite to issuance of building permit**

- (a) Every person applying for a building permit for construction of a new industrial building or structure or for an addition or alteration to an existing building or structure shall secure a signed statement for the director of public works/city engineer as to requirements for disposal of industrial liquid wastes, industrial sewage, and other waste materials from such building or structure. The person for whom such building or structure is to be constructed shall furnish the director of public works/city engineer such plans, information, data, statements or affidavits as the director of public works/city engineer may require for determination of the nature and quantity of the wastes involved and the facilities to be provided for the disposal thereof.
- (b) Upon completion of his examination of the data submitted, the director of public works/city engineer shall promptly issue a statement made in accordance with one of the following conditions, which shall be incorporated in the approved plans and made a part of the building permit:

- (1) Disposal of all industrial wastes, industrial sewage or other waste materials shall be made by connection to the public sewer in accordance with this division, and plans for the facilities required shall be submitted to and approved by the director of public works/city engineer and a permit issued before construction of such waste disposal facilities is started.
- (2) Connection to the public sewer is not feasible; the applicant has certified that the wastes involved consist only of domestic sewage, uncontaminated cooling water, or other innocuous materials; and disposal shall be made into septic tanks, cesspools or other similar facilities to be approved by the county health officer and constructed in accordance with the California Plumbing Code.
- (3) Connection to the public sewer is not feasible; the proposed use of the building or structure will produce wastes containing impurities which cannot be reduced to safe or reasonable limits by any known processes; disposal of such wastes in the manner proposed may create a menace to the public health or safety, create a public nuisance, pollute underground water supplies, or cause serious damage to public or private property; and no permit for disposal of such wastes can be issued under this division. (Code 1959, § 27-50; Ord. No. 910, § 355)

## **Subdivision II. Connection Permit**

### **Sec. 62-521. Required**

- (a) Any person who makes, causes, permits, or allows to be made any connection to a sanitary sewer for the disposal of any industrial waste shall first file an application with the director of public works/city engineer in the manner provided in this subdivision and be issued a permit therefore. Such permit shall be for a single industrial sanitary sewer connection.
- (b) Any person who makes, causes, permits, or allows to be made any industrial connection to a sanitary sewer without first having filed an application with the director of public works/city engineer and being issued a permit thereof is guilty of a misdemeanor.
- (c) Any person who makes, causes, permits, or allows to be made any industrial connection to a sanitary sewer and who fails, refuses or neglects to apply for and be issued a permit therefore by the director of public works/city engineer shall be assessed an additional 100 percent of the fixed fee for such permit, which penalty shall be added thereto and shall be collected with the fee. (Code 1959, §§ 27-36, 27-42, 27-43; Ord. No. 910, §§ 360, 366, 367)

### **Sec. 62-522. Application contents**

Every person or his duly authorized representative applying for a permit to make a connection to a sanitary sewer for the purpose of discharging industrial wastes shall file with the director of public works/city engineer an application in duplicate, signed and setting forth the following:

- (1) The name and address of the applicant.
- (2) The name and official status of the authorized representative, if any.

- (3) The character and analysis of waste proposed to be discharged.
- (4) The volume and rate, periodic or otherwise, of discharge.
- (5) The location of the point of discharge.
- (6) A scale drawing or print of the plant layout showing in outline all equipment producing industrial wastes, buildings, and railroad sidings or spurs, if any. Such drawing or print shall be attached to and be a part of each copy of the application as filed.
- (7) The applicant agrees to provide at his expense any manhole necessary for adequate sampling and measurement as referred to in section 62-395 should such sampling and measurement be deemed necessary by the director of public works/city engineer. (Code 1959, § 27-37; Ord. No. 910, § 361)

#### **Sec. 62-523. Pretreatment plans**

- (a) If pretreatment is required to make the waste acceptable, the applicant for a permit to dispose of industrial liquid waste or industrial sewage shall be accompanied by four copies of suitable plans showing the method of collection and pretreatment proposed to be used. A permit shall not be issued until such plans or required modification thereof have been checked and approved by the director of public works/city engineer and any other affected governmental agency.
- (b) Whenever, in the opinion of the director of public works/city engineer, special field investigation is required or when plans for construction of any industrial sewer or industrial waste pretreatment facilities must be checked and approved, the applicant shall deposit a sum estimated by the director of public works/city engineer to cover the cost of checking the plans and based on the following schedule:
  - (1) For sewage treatment plants or industrial liquid waste pretreatment plants or other facilities, the fee shall be set by resolution of the city council times the estimated number of man-hours required for checking the plans and making field examinations.
  - (2) An amount equal to ten percent of the amounts in subsection (b)(1) of this section to cover indirect costs.
  - (3) In no case shall the fee be less than the amount set by resolution of the city council. (Code 1959, §§ 27-38, 27-39; Ord. No. 910, §§ 362, 363; Ord. No. 2322, § 1 (part))

#### **Sec. 62-524. Fees.**

The fixed fee, payable in advance, for a permit to discharge any industrial waste into a sanitary sewer shall be as follows:

- (1) For each permit for an industrial connection to a sanitary sewer, the sum as computed in section 62-399(a) through (c).
- (2) For each special permit to discharge into a sanitary sewer any industrial waste exceeding in volume the allowed proportional amount, per section 62-503, the sum it will

cost the city to expand its facilities to the nearest industrial outfall line. (Code 1959, § 27-40; Ord. No. 910, § 364; Ord. No. 2322, § 1 (part))

**Sec. 62-525. Action on application.**

If, after due investigation, the director of public works/city engineer determines that the proposed wastes will be in compliance of all applicable laws, ordinances and regulations, he shall so inform the applicant and furnish him a statement of the amount of charges to be levied for treating such wastes. (Code 1959, § 27-41; Ord. No. 910, § 365; Ord. No. 2322, § 1 (part))

**Sec. 62-526. Issuance.**

The prescribed fees and deposits having been deposited in the manner provided in this subdivision, the director of public works/city engineer may issue a permit, provided that sewerage and disposal capacity are available and it has been determined that the wastes conform to the provisions of all applicable laws, ordinances and regulations and that the volume of waste that is in excess of the allowed proportional amount will not cause overloading of the disposal plant. (Code 1959, § 27-44; Ord. No. 910, § 368)

**Sec. 62-527. Transferability.**

Permits issued under this subdivision are not transferable from one location to another, and discharge of wastes shall be made strictly in accordance with all provisions contained in the permit, at the location specifically designated therein. (Code 1959, § 27-45; Ord. No. 910, § 369)

**Subdivision III. Pretreatment**

**Sec. 62-546. Requirements.**

The discharge of industrial wastes into a sanitary sewer shall be governed as follows:

- (1) All wastes, however harmless, shall be reduced to a minimum in volume and strength, and fluctuations of temperature and flow shall be evened out by adequate storage before discharge.
- (2) All wastes, when necessary, shall be pretreated by screening, sedimentation, neutralization, or other improved methods to produce a quality and character of waste that shall conform to section 62-504.
- (3) Pretreatment of industrial wastes shall be at the source and at the expense of the agency producing such waste. (Code 1959, § 27-51; Ord. No. 910, § 354)

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## **Appendix B Legal Authority**

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# Recommended Legal Authority

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The following draft code sections are recommended for inclusion in either the City's municipal code or as a policy to be adopted by Council. These codes must be modified to ensure compliance with the City's municipal code format and to avoid creating conflicting codes. Bracketed text may be appropriate when certain policies, such as a FOG Control Program, are adopted. The ordinances below should be inserted into Chapter 62, Article V.

## **Sec. 62-XX. Administration**

Except as otherwise provided herein, the Public Works Director shall administer, implement, and enforce the provisions of Chapter 62, Article V, of this Code. Any powers granted to or duties imposed upon the Public Works Director may be delegated by the Public Works Director to designated persons authorized to act in the beneficial interest of or in the employ of the City.

## **Sec. 62-XXX. Restrictions for sewer discharges**

- A. No person shall throw or deposit any substance or liquid into any vessel or receptacle directly or indirectly connected to the City's wastewater collection system that is not in conformance with current LACSD district regulations. This shall include, but not be limited to, storm drainage discharge, ground water discharge, cut or dislodged roots, and toxic or malodorous gases or materials.
- B. No person or business shall introduce into the sewer system a quantity of fats, oils, or grease that would cause or contribute to a blockage of any lateral, collector, main line[ **in accordance with the City's Fats, Oils, and Grease Control Program**]. Each person or business who discharges wastewater into the sewer system shall take all practicable steps to prevent the accidental or intentional introduction of such materials into the sewer system.
- C. The City shall enforce the general and specific prohibitions of the national pretreatment program under Title 40 of the Code of Federal Regulations, Section 403.5, as they pertain to the City's status as a collector system for the County Sanitation District No. 21. No person or business shall therefore introduce any of the following into the City's sewer system:
  - a. Pollutants which create a fire or explosion hazard in the sewer collection system or Publicly Owned Treatment Works (POTW), including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 Code of Federal Regulations 261.21
  - b. Pollutants which will cause corrosive structural damage to the sewer collection pipes and structures, but in no case discharges with pH lower than 5.0 or higher

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than 11.0, unless the work is specifically designed to accommodate such discharges

- c. Solid or viscous substances in amounts which will cause obstruction to the flow or result in the interference in the sewer collection system or the POTW
- d. Any “emulsifying agent” which suspends or emulsifies any fats, oils, and grease and is specifically used to prevent oil and grease build-up in any gravity separation device or interior plumbing
- e. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW
- f. Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes, are sufficient to create a public nuisance or hazard to life, or are sufficient to prevent entry into the sewers for maintenance and repair
- g. Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Public Works Director, upon the request of the POTW, approves alternate temperature limits
- h. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil in amounts that will cause interference with the maintenance of the sewage collection system
- i. Pollutants which result in the presence of toxic gases, vapors, or fumes within the sewer collection system or the POTW in a quantity that may cause acute worker health and safety problems
- j. Any transported substances



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**Sec. 62-XXX. Improper use of connected sewers**

The City may inspect any lateral or collecting sewers that discharge wastewater directly or indirectly to the City's trunk sewers. If the Public Works Director determines that the improper use, maintenance, or construction of a lateral or collecting sewer causes or contributes to the discharge of septic wastewater, excessive groundwater, debris or any other objectionable substance to the City's sewers, the Public Works Director may give notice of the violation to any discharger contributing to such condition and to the local sewerage agency responsible for the maintenance of such sewer, and shall direct that condition be corrected. In the event of a failure to comply with the Public Works Director's directive, the City may disconnect such lateral or collecting sewer from the City's wastewater collection system.

**Sec. 62-XXX. Damage to City's facilities or equipment**

Any unauthorized entering, breaking, damaging, destroying, uncovering, defacing or tampering with any temporary or permanent structure, equipment or appurtenance which is owned by the City or a part of the City's sewerage systems shall be a violation of this Code.

**Sec. 62-XXX. Penalty for violation and civil liability**

*(this section may be superseded by other penalty and administrative citation provisions in the code, including, but not limited to, Chapter 1, Section 1-7, and Chapter 2, Division 2)*

Every person violating any provision of this Article, including the failure to pay any fees, charges or surcharges imposed hereby, or any condition or limitation of a permit or plan approval issued pursuant thereto, is guilty of a misdemeanor, and upon conviction is punishable as provided by law. Each day during which any violation continues shall constitute a separate offense. The Public Works Director or Director's designee is hereby authorized to seek, through the office of the District Attorney of Los Angeles County or other appropriate authority, prosecution of criminal charges against any person or establishment violating any provision of this Code. Violations of discharge limitations established under this Code may also be violations of state and federal environmental laws which may be punishable as felonies and which may also carry substantial fines and penalties.

In addition, any person who violates any provision of this Code or any term or condition of any permit issued pursuant to this Code or plan approval which prohibits or limits the discharge of any waste or imposes any pretreatment requirement shall be civilly liable to the City in the maximum sum provided by law for each day in which such violation occurs.

City is hereby delegated the sole authority to, and by action of its Council may, elect to have any fees or charges prescribed by this Code collected on the tax roll, and may, as provided by law, impose liens on property to collect any fees and charges which have become delinquent. City is further delegated the sole authority to commence civil actions to enforce the provisions of this Code and to recover any sums due hereunder and may further delegate such portions of that authority to the Public Works Director or Director's designee as the City Council may deem appropriate. The City may agree to submit such actions to binding arbitration in those instances in which the Council determines that it is in the best interest of the City to do so.

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### **Sec. 62-XXX. Charge for excessive sewer maintenance**

No person shall discharge or cause to be discharged to the City's wastewater collection system, either directly or indirectly, any waste that obstructs, interferes with, or otherwise requires excessive maintenance of any City's sewer or sewerage facility, including: any waste that creates a stoppage or breakage; any toxic, hazardous or odorous condition; or any damage or deterioration of any City's sewer or sewerage facility. Any excessive sewer or sewerage maintenance expenses or reconstruction costs including administrative costs attributable thereto shall be charged to the discharger causing or contributing to such conditions. Any refusal to pay such charges shall constitute a violation of this Code.

### **Sec. 62-XXX. Inspectors and monitoring personnel**

The Public Works Director shall provide adequate identification for all City inspectors, monitoring personnel, and other authorized personnel and these persons shall, when so requested, identify themselves when entering any property for inspection or sampling purposes, or when inspecting the work of any contractor.

Authorized personnel of the City may inspect and monitor any facility or industrial process that is involved directly or indirectly with any discharge to the City's sewerage systems. These facilities shall include but not be limited to: sewers; wastewater pumping plants; pollution control plants; industrial wastewater generation, conveyance and pretreatment facilities, devices and connection sewers; wastewater monitoring facilities or stations; Food Service Establishments (FSEs); and all similar or related sewerage facilities and appurtenances. Inspections may be made to determine whether such facilities are maintained and operated properly, to verify that the discharger is in compliance with a cease and desist order, and to determine whether the discharger is otherwise in compliance with the provisions of this Code.

Authorized personnel of the City shall be provided immediate access to all of the above facilities or to other facilities directly or indirectly connected to the City's sewerage systems any time wastewater is being discharged to the City's sewerage system, and any time the discharger's facility is open or operating, and during any other reasonable times including, but not limited to, emergency situations. A condition for the issuance of any industrial wastewater discharge permit described in Sections 62-501 through 62-504, Sections 62-521 through 62-527, and Section 62-546 of this Code and for the continued use of the City's sewerage system shall be that the discharger expressly consents to inspection of the discharger's facility and industrial processes at reasonable times by City's personnel or authorized representatives. Inspections of other facilities for which no permit has been applied or issued may be made pursuant to the procedures set forth in Title 13 (commencing with Section 1822.50) of Part 3 of the Code of Civil Procedure. However, those procedures need not be followed in the event of an emergency affecting public health and safety, or if the discharger consents.

Access to wastewater monitoring facilities or stations shall be granted immediately upon request during any time the discharger's establishment is open, any time wastewater is being discharged to the City's sewerage system, and during any other reasonable time. Any permanent or temporary obstruction to the safe and easy access to the sewerage facility to be inspected shall promptly be removed by the discharger or property owner at the written or verbal request of the Public Works Director or the Director's designee and shall not be replaced.

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Dischargers of wastewater that have been determined by the Public Works Director or the Director's designee to present identifiable hazards to the City's sewerage systems, and those individual dischargers whose security procedures or plant configurations restrict or delay access, shall provide an approved, secured monitoring facility which is directly accessible to City's personnel without having to pass through other secured property of the discharger. The costs of providing facilities with such access shall be borne by the discharger and not by the City.

No person shall interfere with, delay, resist or refuse entrance to authorized City's personnel attempting to inspect any facility involved directly or indirectly with a discharge of wastewater to the City's sewerage system.

**Sec. 62-XXX. Inspection of construction**

All sewer laterals to be connected directly to the City's wastewater collection system will be inspected by personnel of the City during construction. The City shall be notified at least 48 hours prior to excavating to expose a City sewer or commencing construction of a manhole on a City sewer. In making a connection to a City sewer, no physical alteration of the City's facilities shall commence until a City inspector is present.

Sewerage facilities which will not be directly connected to the City's sewer will not be inspected routinely by the City during construction. Upon completion of construction and prior to removal of the downstream bulkhead and upon receiving 48 hours notice, the City will inspect the work to determine if it has been constructed according to the City's sewer design guidelines or as approved by the Public Works Director or the Director's designee, in a satisfactory manner, and to determine if all facilities are cleaned of construction debris that could be flushed into the City's sewers.

No wastewater shall be discharged into any sewerage facility directly connected to or tributary to a City facility prior to obtaining inspection and approval of sewerage construction by the City.

Following satisfactory completion of construction, the City will, if requested, issue a construction inspection completion statement.

**Sec. 62-XXX. Additional requirements by the Public Works Director**

Nothing contained in this Code shall be construed to prevent the Public Works Director or the Director's designee from requiring compliance with higher or more stringent requirements or specifications than those contained herein where compliance with such higher or more stringent requirements or specification is necessary to maintain a sanitary condition.

Below are recommended ordinances for the City to consider and adopt as part of Article 5, Division 3.

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## **Waste Disposal – Permit Required**

Facilities engaged in preparing food for consumption by the public desiring to discharge wastewater into a public sewer shall obtain a permit to discharge from the City Public Works Director known as a permit Food Establishment Wastewater Discharge.

### **Permit for Food Service Establishment Waste Discharge**

The permit for Food Service Establishment Waste Discharge may require pretreatment of wastewater prior to discharge, restriction of peak flow discharges, discharge of certain wastewater only to specified sewers of the City, relocation of point of discharge, prohibition of discharge to certain wastewater components, restrictions of discharge to certain hours of the day, payment of additional charges to defray increase costs of the City created by the wastewater discharge and such other conditions as may be required to effectuate the purpose of this ordinance. No person shall discharge industrial wastewater in excess of the quantity or quality limitations set by the Permit of Industrial Wastewater Discharge Permit and City ordinance.

### **Permit Application**

Persons seeking a Food Service Establishment Waste Discharge Permit shall complete and file with the City Public Works Director, an application in the form prescribed by the City Public Works Director, and accompanied by the applicable fees. The applicant may be required to submit, in units and terms appropriate for evaluation the following information:

- Name and address of applicant
- Volume of wastewater to be discharged
- Time of daily food preparation operations
- Description of food preparation, type, number of meals served, cleanup procedures, dining room capacity, number of employees and size of kitchen
- Any other information as may be deemed by the City Public Works Director to be necessary to evaluate the permit application. The City Public Works Director will evaluate the data furnished by the applicant and may required additional information. After evaluation and acceptance of the data furnished, an on-site inspection of the waste discharge system, treatment systems or other system relating to the waste discharge may be required. The City Public Works Director may then issue an Industrial Wastewater Discharge Permit subject to terms and conditions provided.

### **Duration of Permit**

A Food Service Establishment Waste Discharge Permit shall be issued for a specified period, not to exceed one (1) year. A permit may be issued for a period less than one (1) year or may be stated to expire on a specific date. The terms and conditions of the permit may be subject to modifications and change by the City during the life of the permit as limitations or requirements as deemed necessary the City Public Works Director. The FSE owner shall be informed of any proposed changes in his permit at least thirty (30) days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.

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## **Transfer of Permit**

Food Service Establishment Waste Discharge Permits shall be issued only for specific use for a specific operation. Any sale, lease, transfer or assignment of the premises or operation for which the permit was issued shall require a new permit to be issued. Any new or changed conditions of operation shall require a new permit to be issued.

## **Revocation of Waste Discharge Permit**

The City Public Works Director may revoke the permit of any FSE who is found to be in violation of this ordinance or who:

- Fails to comply with the conditions of the Food Service Establishment Waste Discharge Permit
- Fails to install required grease pretreatment devices as required by the Food Service Establishment Waste Discharge Permit;
- Fails to comply with the reporting and/or pretreatment requirements or pretreatment device maintenance as required by the Food Service Establishment Waste Discharge Permit;
- Fails to comply with a Notice of Violation or a Compliance Schedule Agreement issued to require compliance with a Food Service Establishment Waste Discharge Permit or other provision of the City's municipal codes;
- Knowingly provides a false Food Service Establishment Waste Discharge Permit application or makes false representations, or submits false documents, reports or logs to the City Public Works or the Director's designee;
- Refuses to allow inspections during normal business hours or after hours;
- Interferes with a City Public Works Director or the Director's designee during the FSE inspection or in sampling an FSEs discharge or in inspecting and sampling an overflow event; and/or
- Causes or contributes to sewer blockages or sewer overflows within the public sewer, or fails to address the conditions leading to more than one (1) overflow event from a private and/or public system within a twelve (12) month period.

## **Maintenance Reports**

The City Public Works Director shall require the FSE to keep records of grease pretreatment device cleaning, maintenance and grease removal and to report on such maintenance to the City permit administration. The City Public Works Director may require the FSE to provide results of periodic measurements of its discharge which is to include chemical analysis of oil and grease content. FSEs owners or designee shall allow the City or its representative ready

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access at all reasonable times to all parts of the premises for purposes of sampling and inspections.

### **Penalty for Violation and Civil Liability**

a) Injunction

A discharge of wastewater which is in any manner in violation of this ordinance, or of any order issued by the City Public Works as authorized by this ordinance, is hereby declared a public nuisance and shall be corrected or abated by the discharger as directed by the City Public Works Director. Any person creating such a public nuisance is guilty of a misdemeanor.

b) Falsifying of Information

Any person who knowingly makes any false statements, representation, record, report, plan or other document filed with the City Public Works Director or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this ordinance, shall be guilty of a misdemeanor.

c) Termination of Service

The City may revoke any Food Service Establishment Waste Discharge Permit issued or terminate or cause to be terminated any wastewater service to any premise if a violation of any provision of this ordinance is found to exist or if a discharge of wastewater causes or threatens to cause a condition of contamination, pollution or nuisance. This provision is in addition to other statutes or rules authorizing termination of service for delinquency in payment.

When deemed necessary by the City Public Works Director for the preservation of public health or safety or for the protection of public or private property, he/she may suspend sewer service to any person or persons using the wastewater collection system in a manner or way to endanger the public health or safety, or public or private property. In suspending service he/she may sever all pertinent connections to the public sewer. If such endangerment shall be imminent, the City Utilities Service Director may act immediately to suspend sewer service without notice or warning to said person or persons.

### **Notice and Appeal Procedures**

Unless otherwise provided herein, any notice required to be given by the City Public Works Director under this ordinance shall be in writing and served in person or by registered or certified mail. If discharger is served by mail, the notice shall be sent to the last address known to the City Public Works Director. Where the address is unknown, service may be made upon the owner of record of the property involved.

Notice shall be deemed to have been given at the time of deposit, postage prepaid, in a facility regularly serviced by the United States Postal Service.

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Any person found to be violating any provision of this ordinance shall be served by the City Public Works Director or designated representative with written notice stating the nature of the violation. Within ten (10) days after the date of the notice, unless a longer time is necessary due to the nature of the violation, a plan for the satisfactory correction thereof shall be submitted to the City Public Works Director. If the violation is not corrected by timely compliance, or a satisfactory correction plan submitted within the specified time, the City Public Works Director may order any person to show cause before the City Public Works Director why enforcement action should not be taken. A written notice shall be served on the person specifying the time and place of a hearing, the reason why the actions is to be taken, and the proposed enforcement action. The City Public Works Director may propose any enforcement action reasonably necessary to abate the violation. Based upon the evidence presented at the hearing, the City Public Works Director shall determine the appropriate enforcement action which should be taken, if any.

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# **Appendix C**

## **Operations Maintenance Program**

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# **CITY OF POMONA OPERATION AND MAINTENANCE PROGRAM**

**October 2018**



**City of Pomona  
Water Resources Department  
148 North Huntington Street  
Pomona, California 91768**



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# Chapter 1

## Introduction

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The City of Pomona's Wastewater Program addresses those mandatory SSMP provisions outlined in Section D, 13 (iv) Operation and maintenance program of SWRCB Order No. 2006-0003.

The City of Pomona's (City) Wastewater Operations Division is responsible for the operation and maintenance of an extensive wastewater collection system and is tasked with ensuring proper and efficient operation of the system. The City provides sewer service throughout the City and to a limited area outside the City limits. The City's wastewater collection system consists of approximately 317 miles of gravity sewer, four (4) pump stations, 1.4 miles of force mains, 6,360 manholes, and two (2) siphons. Wastewater collected by the City's wastewater collection system is conveyed to the Pomona Water Reclamation Plant (PWRP) for treatment and disposal under the authority of the Los Angeles County Sanitation Districts (LACSD). The four pump stations are now owned, maintained, and operated by the LACSD pursuant to an agreement between the parties as shown in Appendix H, Sewage Lift and Force Main Transfer.

The City is dedicated to improving the condition and performance of its wastewater collection system and reducing the number of SSOs. Development and implementation of a wastewater collection system operations and maintenance (O&M) program serves to ensure that the wastewater collection system is routinely and properly maintained in a manner that minimizes failures and extends the longevity of the system.

This Section summarizes the City's current procedures and practices as they pertain to the O&M activities to facilitate compliance with the WDRs. Specifically, this chapter contains a comprehensive evaluation of the elements affecting the O&M of the City's wastewater collection system including, but not limited to, system inventory and mapping, the work order process, inspection and assessment of the system including objective standards, CIP project identification process, preventative maintenance procedures, repair and rehabilitation procedures allowing the City of Pomona to comply with the Operation and Maintenance Program requirements of the WDRs.

### 1.1 Purpose of an Operations and Maintenance Program

Establishment and documentation of a comprehensive program provides the specific details of the activities and procedures that personnel follow to implement the program. A well planned, documented, and executed O&M program provides the optimum level of maintenance activities for the least total maintenance cost. At a minimum, the following components are part of a good O&M program:

- Inventory and Mapping of the Wastewater Collection System Assets
- Preventative Maintenance Program
- Spill Emergency Response Plan (SERP)

## Introduction

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- Fats, Oils, and Grease Reduction and Management Program
- Wastewater System Inspection and Assessment Program
- Capital Improvement Program (CIP) Project Identification
- Computerized Maintenance Management System (CMMS)
- Equipment and Replacement Part Inventories
- Training Program
- Staffing Requirements and Recommendations

The following sections include a summary of the activities currently performed by Wastewater Collection System Maintenance staff which meets the requirements of Section D, 13 (iv) Operation and Maintenance Program, thereby allowing the City of Pomona to comply with the operation and maintenance program requirements of the WDR.

## Chapter 2

# Wastewater Collection System Inventory and Mapping

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A comprehensive inventory of the City's wastewater collection system assets documents the horizontal and vertical locations of sewer system facilities, as well as the attributes of various sewer system components. This information is used to develop a Geographic Information System (GIS) database of the facilities which facilitates management of O&M activities and expedites data management and retrieval for reporting purposes.

The locations of most sewer pipes and associated appurtenances within the City are currently documented using atlas map books and as-built drawings. The City has effectively managed and maintained information pertaining to the wastewater collection system infrastructure by means of manually updating atlas maps and/or reference to hard copy as-built drawings. The City has effectively converted the manually drawn, paper mapping system, to a GIS using ESRI's ArcGIS software as shown in Figures 2-1 and 2-2. The conversion of records to GIS includes digitizing location information from the City's atlas map sheets and recording facility attributes including:

- Year of installation
- Construction Identification Number
- Diameter
- Slope
- Material
- Invert elevations
- Manhole rim elevations
- Effective length of pipeline segments between manholes
- Flow direction of sewage
- Sewer Easements
- Coordinates of manholes, clean outs, and dead ends
- Service connections (approximate location is acceptable)
- Location of asset (e.g. street name, house addresses, block name, cross road, etc.)

To ensure that potential errors associated with the transfer of available graphic data into the GIS were omitted, Pomona staff performed internal reviews during the conversion process for accuracy of the information. Involved in the review was staff from both the Engineering and the Wastewater Collection Systems Maintenance Sections with extensive knowledge and experience with the City's wastewater collection system.

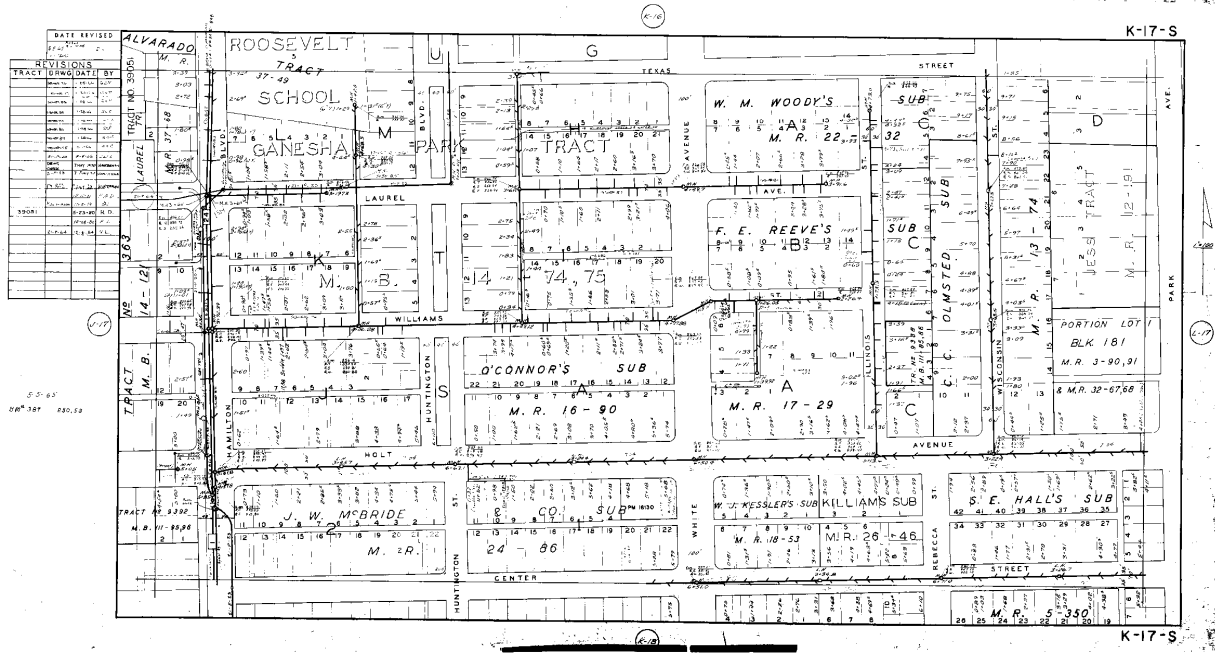
The City's conversion effort lead to completion of the conversion of the graphic information to the computerized mapping system, population of the GIS database, and assignment of identifying labels to all pipeline segments and manholes. An established routine of updating and maintenance procedures allows the City of Pomona to effectively manage the system and implement an asset management program for the wastewater collection system, which will facilitate planning and funding of potential future capital improvement projects.

# Wastewater Collection System Inventory and Mapping

## Figure 2-1: New Sewer Atlas Sheet



## Figure 2-2: Old Sewer Atlas Sheet





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# Wastewater Collection System Inventory and Mapping

## 2.1 System Inventory and Mapping Recommendations

The following are recommendation to facilitate comprehensive documentation of additional attributes of the City's sewer facilities.

### **Complete Data Conversion**

As of today, the data conversion and entry has been completed and will position Pomona staff to better manage and maintain the sewer asset data. The next logical steps to follow will include the building of a work management system and a sewer hydraulic model based upon the sewer geodatabase. These next steps have been included in the upcoming CIP program.

### **Gather Additional Attribute Data**

In addition to the data captured for the wastewater collection system, including the unique identifiers for each asset, the City should consider capturing the following data:

- Rehabilitation and repair data
  - Acceptance date of work
  - Rehabilitation material
  - Effective nominal diameter of pipe
- GPS Coordinates for the manholes and other significant infrastructure
- Scanned documents relating to sewer easements
- Defined sewer basins
- CIP ranking data
- Linking CCTV and as-built data

### **Develop and Implement a Routine Data Maintenance Procedure**

Maintaining and updating data is a continuous process that becomes overwhelming if not completed on a routine basis. Improvements by property owners and developers are continuously changing or adding new sewer pipelines and connections that the crews need to be aware of. Also, while working on the system, crews will identify errors in the printed data that requires updating. Staff should establish a procedure to collect this data, regularly enter new asset information, and correct errors found in the data.

Initially, we had attempted to use a specific form to identify and track changes or problems in the field. Engineering Staff would scan the document and then forward the information to the GIS technician. Since that time, it seems that the better way to manage this process is to have them make up hard copy of the sewer atlas and then submit it to Engineering staff. At least once a month, the identified staff person, competent to use the GIS system, should enter the data into the GIS, and then back check the data for accuracy. A new hardcopy master map can be produced to allow the next month's changes to be tracked. The existing hardcopy master map should be marked as complete and archived for at least one (1) year. Atlas map books should be reproduced depending on the number of changes and updates, but at least once a year. This will ensure that crews and other staff have current data which will alleviate problems in the field with maintenance and repair efforts.

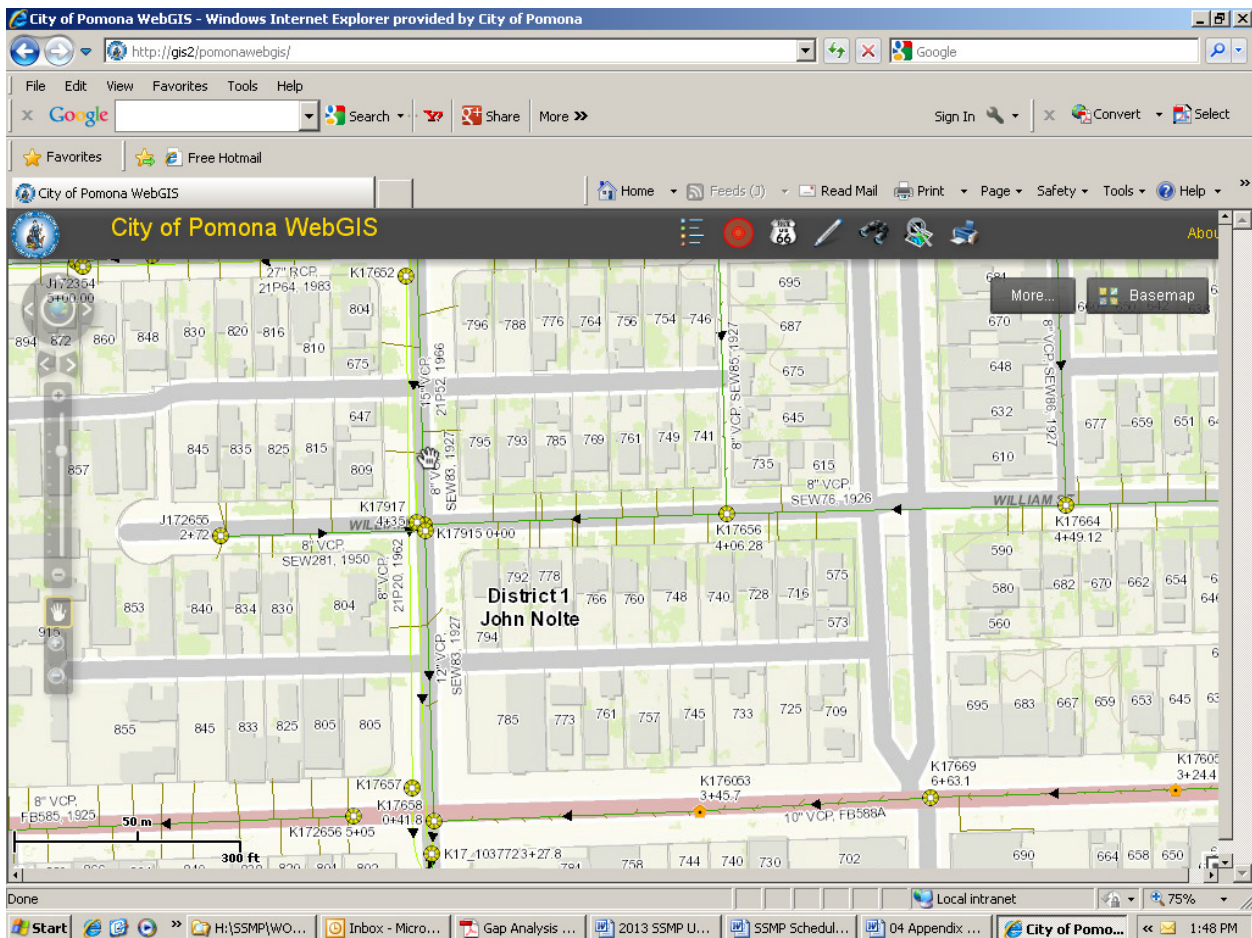
# Wastewater Collection System Inventory and Mapping

In addition to this process, there is a mapping stick include with the granite XP software upgrade that can and will be used to update our maps with more accuracy. To continuously ensure accuracy, we have also asked that when staff cleans the lines that they conduct a visual check to confirm or disconfirm the sewer flow direction in the manhole.

## Access Improvements to GIS information

There are a variety of ways in which staff can get access to the new GIS Data. The first, and more traditional way, is to access this data from hard copy prints. Since not all of our work vehicles are equipped with computer or tablets, some vehicles are provided a binder that has 11"x17" Atlas sheets. For the Yards, there is a 2'X4' binder book with Atlas sheets. The second access method is through the City's Web site, known as Pomona WebGIS. The path to that site is <http://gis2/pomonawebgis/s> and it is accessible to all City employees. A picture of the site is shown below:

**Figure 2-3: Pomona WebGIS**



The site allows you to select the feature one wishes to display. Lastly, for those that have access to the geodatabase via Esri's ArcMap, specific maps can be created from all of the features available in the City's geodatabase.

# Chapter 3

## Wastewater Collection System

### Preventative Maintenance

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The City's wastewater collection system, as many aging utilities serving older communities, has required frequent maintenance due to age, extended use, debris accumulation, and tree root intrusion. To minimize and prevent system blockages and preserve and extend the useful life of the wastewater collection system, the City's Preventive Maintenance Program has primarily included the routine cleaning of the wastewater pipelines. This section discusses the cleaning program, and methods utilized by the City.

#### 3.1 Cleaning Program

A component of a comprehensive operations and maintenance program includes performing routine cleaning services of the wastewater collection system. The City's primary purpose of cleaning the wastewater collection system is to remove the accumulation of foreign material from the sewer system. Cleaning is performed in response to or in anticipation of one or more of the following conditions:

- Blockages (solid and/or semisolid obstructions resulting in cessation of flow)
- A reduction of hydraulic capacity due to sediment, roots, intrusions (connections or other foreign bodies), grease, encrustation and other foreign material restricting the capacity of a sewer, which may result in a surcharge or flooding
- Pollution caused by either the premature operation of combined wastewater overflows due to downstream restrictions in hydraulic capacity or the washing through and discharge of debris from overflows during storms
- Odors caused by the retention of solids in the system for an extended period of time, which may result in septic conditions producing hydrogen sulfide
- Sewer inspections that may include visual, CCTV, or manned entry inspections to improve visibility of the pipeline surface
- Sewer rehabilitation efforts - the wastewater collection pipelines are cleaned prior to implementing any sewer rehabilitation work.

The City's wastewater collection system generally requires cleaning to remove accumulated debris and sediment that has fallen out of suspension from the waste stream. All pipes are cleaned in a methodical and systematic manner to ensure consistency in the cleaning efforts. Generally, cleaning is recommended to occur from the upstream manhole to the downstream manhole, since the flow in the pipe can assist moving debris downstream.

#### 3.1.1 Descriptions of Cleaning Methods Utilized

Common cleaning methods utilized by Pomona include jetting and mechanical rodding. The method employed is usually determined in advance and is typically contingent upon the pipe

# Wastewater Collection System Preventative Maintenance

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type and size and on the conditions expected in the pipe. Table 3-1 provides a summary of the most commonly used methods to a clean sewer system.

Although the commonly used cleaning methods have proven effective in maintaining sewer systems, there are limitations to several of the cleaning methods used. Table 3-2 provides a summary of the limitations of several cleaning methods.

**Table 3-1  
Common Sewer Cleaning Methods\***

| Technology        | Uses and Applications   |
|-------------------|---|
| <b>Mechanical</b> |   |
| Rodding           | <ul style="list-style-type: none"> <li>• Uses an engine and a drive unit with continuous rods or sectional rods</li> <li>• Blades rotate and break up grease deposits, cut roots, and loosen debris</li> <li>• Rodders also help thread the cables used for TV inspections and bucket machines.</li> <li>• Most effective in lines up to 12 inches in diameter</li> </ul>                           |
| <b>Hydraulic</b>  |   |
| Balling           | <ul style="list-style-type: none"> <li>• A threaded rubber cleaning ball that spins and scrubs the pipe interior as flow increases in the sewer line</li> <li>• Removes deposits of settled inorganic material and grease build-up</li> <li>• Most effective in sewers ranging in size from 5 to 24 inches in diameter</li> </ul>   |
| Jetting           | <ul style="list-style-type: none"> <li>• Directs high velocities (at approximately 2,000 psi) of water against pipe walls</li> <li>• Removes debris and grease build-up, clears blockages, and cuts roots within small diameter pipes</li> <li>• Efficient for routine cleaning of small diameter, low flow sewers</li> <li>• Using jetter/vactor vehicles is considered a best practice</li> </ul> |
| Flushing          | <ul style="list-style-type: none"> <li>• Introduces a heavy flow of water into the line at a manhole</li> <li>• Removes floatables and some sand and silt</li> <li>• Most effective when used in combination with other mechanical operations such as rodding or bucket machine cleaning</li> </ul>   |

\*United States Environmental Protection Agency (Sept. 1999). Collection Systems O&M Fact Sheet - Sewer Cleaning and Inspection. (EPA 832-F-99-031).

# Wastewater Collection System Preventative Maintenance

**Table 3-2  
Limitations of Cleaning Methods\***

| Cleaning Method       | Limitations  |
|-----------------------|--|
| <b>Mechanical</b>     |  |
| Rodding               | Continuous rods are harder to retrieve and repair if broken and they are not useful in lines with a diameter greater than 12 inches because the rods have a tendency to coil and bend. This device also does not effectively remove sand or grit, but may loosen the material to be flushed out at a later time.   |
| <b>Hydraulic</b>      |  |
| Balling and Jetting   | In general, these methods are only successful when necessary water pressure or head is maintained without flooding basements or houses at low elevations. Jetting - The main limitation of this technique is that caution need to be used in areas with basement fixtures and in steep-grade hill areas. Balling - Balling cannot be used effectively in pipes with bad offset joints or protruding service connections because the ball can become distorted. |
| Flushing              | This method is not very effective in removing heavy solids. Flushing achieves temporary movement of debris from one section to another in the system.  |
| High Velocity Cleaner | The efficiency and effectiveness of removing debris by this method decreases as the cross-sectional areas of the pipe increase. Backups into residences have been known to occur when this method has been used by inexperienced operators. Even experienced operators require extra time to clear pipes of roots and grease.  |

\*United States Environmental Protection Agency (Sept. 1999). Collection Systems O&M Fact Sheet - Sewer Cleaning and Inspection. (EPA 832-F-99-031).

### 3.1.2 Mechanical Cleaning Efforts by the City

The City's Wastewater Collection System Maintenance Section continually conducts routine cleaning of the sanitary sewer system. In this manner, it is able to clean the entire system approximately once every one and a half (1.5) years. The City utilizes three (3) combination jetter/vactor vehicles and one (1) trailer-mounted mechanical rodder. The sewers are typically cleaned putting high pressure water jetting nozzles in the pipe and manually removing debris from the downstream manhole. Debris removed from the sewer is stored in 55-gallon drums and is removed on an as needed basis by a licensed contractor removes the drums and properly disposes of the material. Cleaning efforts are documented daily. Progress ranges from 3,000 to 18,000 lineal feet per day, depending on the existing conditions, staffing available, and other assigned duties. Shown below is a sample of the electronic daily report.

# Wastewater Collection System Preventative Maintenance

| PW Wastewater Daily Schedule  |                       | Thursday, Jan.31, 2013 |                            |
|-------------------------------|-----------------------|------------------------|----------------------------|
| Crew Description              | Employees             | Task Description       | Location                   |
| Crew 1                        | Gabriel Chavez        | Mainline Cleaning      | S/O OrangeGrove N/O Holt   |
| Crew Truck # 27013 / 27017    | Carlos Velarde        |                        | W/O Dudley E/O Fairplex    |
| Radio # 82                    |                       |                        |                            |
| Crew 2                        | Christopher Lee       | Mainline Cleaning      | S/O Phillips N/O Lexington |
| Crew Truck # 27021 / 27015    | David Weaver          |                        | W/O White E/O 71           |
| Radio # 84                    |                       |                        |                            |
| CCTV Crew                     | John Lopez            | CCTV inspections       | Holt going west from       |
| Crew Truck # 27016            | Mike Moody            |                        | San Antonio                |
| Radio # 81                    |                       |                        |                            |
| <b>Employees Off Sick</b>     | Anthony Fedora        |                        |                            |
| <b>Employees Off Vacation</b> | No scheduled vacation |                        |                            |
| <b>Employee off Misc</b>      |                       |                        |                            |

The City's cleaning efforts focus on two (2) quadrants of the City at a time. Wastewater Operations crews work daily to eliminate potential pipe and manhole blockages. There are currently two (2) crews consisting of two (2) staff members each that are assigned to perform daily routine cleaning tasks. Additionally, crews clean high frequency maintenance locations monthly. These locations include areas identified as having excessive amounts of grease accumulation and root concentrations. Staff primarily uses the combination jetter/vactor vehicles for general cleaning on a daily basis, and use the trailer mounted mechanical rodder for areas known for high root concentrations, grease accumulations, and areas with blockages.

### 3.1.3 Root Removal Efforts by the City

Root intrusion can damage sewers and cause sewer pipelines to restrict flow and/or plug. A component of the City's cleaning efforts includes utilization of the City's trailer-mounted mechanical rodder as well as routine chemical treatment to minimize the potential for SSOs due to root related problems. As necessary, the mechanical rodder is used to clear roots from the wastewater collection system.

The City's root treatment program is performed by a licensed contractor on an as needed basis. A contract is awarded to the lowest responsible bidder and requires the application of chemical root inhibitors to reduce or eliminate roots intruding into the pipes. Pipelines identified as locations with root intrusion problems are treated and evaluated on a yearly basis. Target sites are located in the older developed areas with large mature trees as well as locations identified via the CCTV inspection efforts that identify high concentration of roots. As locations are identified as requiring chemical treatment for root control, location information is recorded in the CCTV database, assessed, and evaluated for inclusion in the subsequent cycle of the root control program.

# Wastewater Collection System Preventative Maintenance

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Since this foam treatment was effective, the City Staff is attempting to secure the training, chemical, and equipment for this application. By applying the foam, which requires very little training, the City is able to treat the sewer line immediately after it has been identified by the camera. Cost reduction, timeliness, and long lasting root removal can be achieved by performing this work ourselves.

Until such time that we acquire the foam capability, a trailer mounted mechanical rodder will be used for root removal.

To confirm the effectiveness of the cleaning activities, the City's CCTV inspection crew randomly televises approximately 4,000 lineal feet of pipe that has been cleaned within the past two (2) weeks. The locations are equally divided among the work performed by the crews cleaning during the two week period. The CCTV efforts occur on a quarterly basis. The inspection identifies what the cleaning crews have done well and what areas need improvement. The information is regularly shared with the cleaning crews at tailgate meetings or status meetings so as to allow them to improve their techniques when using the cleaning equipment.

## 3.1.4 City's Manhole Treatment Program

To control infestations of insects and to maintain adequate access to the system, the City's wastewater collection system manholes are systematically treated for the removal of roaches. The annual roach treatment, referred to as Insecta, is performed by an independent contractor retained by the City. The last treatment was performed by Golden Bell for a cost of \$12,000 and money is set aside each year for treatment in our annual operating budget. Each chemical application is capable of treating approximately 500 to 800 manholes per year. This contractor can apply the chemical at a rate of about 200 to 300 manholes per day. The manholes selected for treatment are identified by areas known to be prone to insect infestation, and observations made during the annual cleaning. After application, infestation is controlled in most cases is typically for two years (this is the company's guarantee).

Although we know the chemical treatment is effective, the roach infestation moves around. One way in which we locate the infestation is through field observation while cleaning the line. Another method of discovery comes from our past experience. We have a good sense of how the population moves so we use that knowledge in determining where to apply the chemical.

## 3.2 Preventative Maintenance Recommendations

The City of Pomona has a cleaning program to clean every pipe at least once every one and a half (1.5) years, and to clean the identified high frequency maintenance sites once every month. This interval of cleaning has proven sufficient for adequate maintenance of the system. This report is formally documenting this effort.

To improve the cleaning efforts, the City has established cleaning metrics to measure progress and effectiveness of the program. As reported in our Annual Activity Report to the Public Works Director, the goal is to clean every pipe at least once every 1½ years. It is recommended that the City continue to divide the sewer system into two halves for easy identification and tracking.

# Wastewater Collection System Preventative Maintenance

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Further, work assignments should be made on a weekly basis, to ensure the completion of specific weekly cleaning goals by crews. As well, this will allow the crews to adjust their progress based on the diameter of pipe being cleaned (larger diameter pipe takes longer to clean than smaller diameter pipe), emergencies as assigned, and unforeseen impediments, such as rain, traffic, easement access, and so on, that reduce their progress on any given day. Based on the assumptions that follow Table 3-3, two (2) crews would be responsible for cleaning approximately 16,825 lineal feet of pipe per week. This will result in an average of 2,103 lineal feet per day per crew, which is within industry standards. As crews complete their assignment, subsequent assignments should be issued, regardless if the work is completed in less than one week.

**Table 3-3  
Weekly Cleaning Footage Benchmark**

|                           |                     |              |
|---------------------------|---------------------|--------------|
| Weekly Cleaning Target    | 16,825 lineal feet  | 3.187 miles  |
| Monthly Cleaning Target   | 67,300 lineal feet  | 12.746 miles |
| Quarterly Cleaning Target | 403,750 lineal feet | 76.468 miles |

Assumptions for annual cleaning efforts include:

- Two (2) crews of two (2) persons each will be assigned to continuously clean the system
- Each crew will average 48 weeks to complete the assigned weekly cleaning tasks; this accommodates four (4) weeks for vacations, holidays, and training
- Each crew will average four (4) days per week on any cleaning assignment to account for equipment repair, emergency repair assignments, and other unforeseen activities that may be assigned
- Crews are responsible to document and report anomalies (e.g. material, diameter, depth, length, etc.) in the map book data for correction in the master GIS database
- There is 1,615,000 lineal feet of sewer in the system

As stated before, the City's CCTV inspection randomly televises approximately 4,000 lineal feet of pipe that has been cleaned with in the past two (2) weeks. It should be noted that debris can, and often, enters the pipeline after cleaning, and therefore the video inspection should not be used as evidence to document job performance. Rather, the information should be used as a training tool and to document possible trends of improper or illegal disposal of material in the wastewater collection system.

## **3.2.1 Accelerated Cleaning Program Plan**

An improved documented cleaning interval of every month has been established for High Frequency Maintenance Sites (HFMS) (referred to as Hot Spots) segments that include pipe segments with the potential to accumulate debris more quickly than other sections and those areas susceptible to blockages that can lead to an SSO. Examples of HFMS include pipe segments with shallow slopes, areas where the pipe diameter reduces as the flow moves



## Wastewater Collection System Preventative Maintenance

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downstream, areas where higher concentrations of debris are discharged into the system, areas where the sewage may be difficult to recover if an SSO occurs, and areas with potentially high impacts to environmental areas if an SSO occurs.

Currently the City cleans these sites typically, the first week of every month, based on field observations and supervisor recommendations. Establishing a cleaning schedule based on more objective standards could reduce the amount of routine cleaning occurring in the City and optimize the use of the City’s crews. Prior to adopting changes in the accelerated cleaning program, the HFMS should be documented in a data base, with the lengths, diameters, and current cleaning frequency intervals. Furthermore, the crews should document the type and amount of debris removed from these segments. The information obtained recorded as condition findings that include four (4) standard Condition Findings: “clear”, “light”, “medium”, and “heavy”. Table 3-4 includes a description for each potential condition finding. The condition finding for a pipe that is being cleaned on an appropriate cleaning frequency will return a “light” condition finding. A pipe consistently indicating a “clear” condition finding indicates that the pipe cleaning may be occurring too frequently. A pipe returning a “medium” or “heavy” condition finding is an indication that the cleaning frequency at the pipe is not frequent enough. Situations that may result in false condition findings include pipelines with structural failure, vandalism, construction related blockages, and so on.

**Table 3-4  
Guidelines for Condition Findings**

| Clear  | Light  | Medium   | Heavy   |
|--|--|--|---|
| No observable grease, roots, sludge, or debris | 1.0 to 1.5 gallons of sludge, small chunks of grease, 20 – 30 minutes to clean a line, 1 – 2 passes to clear the water | 2 – 3 gallons of sludge, moderate chunks of grease, 30 minutes to clean an line, 2 – 3 passes to clear the water | 4 or more gallons of sludge, grease, clumps of roots; more than 30 minutes to clean a line; more than 4 passes to clear the water |

NOTE: a “line” is a pipe segment that averages 300 feet between two manholes

Throughout the year, the operations staff, in consultation with the engineering staff, evaluates the data and determine whether the interval between cleanings should be adjusted. To determine if the cleaning interval should be adjusted for an HFMS, staff reviews the following items:

- History of SSOs for the specific segment
- The past four (4) condition findings
- CCTV inspection data collected during the past 12 months
- As-built data

# Wastewater Collection System Preventative Maintenance

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Cleaning frequency intervals include:

- One month
- Two months
- Three months
- Six months
- Twelve (12) months (annual maintenance interval)

Pipes should not be cleaned on an interval less than once every 12 months. However, for instances where cleaning may occur prior or subsequent to the scheduled cleaning date, the cleaning frequency will be considered in conformance if the cleaning occurred within an acceptable range of time. Table 3-5 provides a summary of a possible range of time which may be acceptable for the cleaning of specific facilities and is based on the initially established cleaning frequency.

**Table 3-5  
Cleaning Frequencies**

| Established Cleaning Frequency | Acceptable Range for Cleaning Frequencies |
|--------------------------------|---|
| Monthly                        | 1 week (before or after)                  |
| Every 2 Months                 | 1 week (before or after)                  |
| Every 3 Months                 | 2 weeks (before or after)                 |
| Every 6 Months                 | 3 weeks (before or after)                 |
| Every 12 Months                | 4 weeks (before or after)                 |

**Decreasing a pipe’s cleaning frequency:** a pipe’s cleaning frequency can be reduced to the next cleaning frequency interval if the condition finding for the pipeline has been three (3) consecutive “clear” findings, when cleaned according to its target interval each time. For example, if a pipe on a one (1) month cleaning interval receives 3 “clear” findings, it will move to a cleaning interval of once every 2 months. If the segment then receives 3 “clear” findings while on a 2 month cleaning interval, it will move to a cleaning interval of once every 3 months. Pipes cleaned *before* their target cleaning interval window will not be considered for a decrease in their cleaning frequencies. Pipes cleaned *after* their target cleaning interval will still be considered for a decrease in their cleaning frequencies.

**Increasing a pipe’s cleaning frequency:** a pipe’s cleaning frequency should be increased to the next cleaning frequency interval if the pipeline receives a “medium” or “heavy” condition finding. For example, if a pipeline on a six month cleaning interval receives a “medium” finding, it will be placed on a cleaning frequency of every 3 months. Additionally, CCTV investigations that show substantial debris or conditional defects that may cause an SSO can increase the cleaning frequency of a pipe. Further, a maintenance related SSO (i.e. not vandalism or construction related) is grounds to increase cleaning frequency of a pipe.

## **Wastewater Collection System Preventative Maintenance**

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**Maintaining a pipe's cleaning frequency:** a pipe's cleaning frequency will remain at the same interval if it repeatedly receives a "light" condition finding, or alternating condition findings of "clear" and "light."



## Chapter 4

# Spill Emergency Response Plan (SERP)

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SSOs may occur due to blocked sewers, a restriction in the wastewater collection system, pipe failures, flows exceeding the capacity of the system, mechanical malfunctions, and other natural or man-made causes. The City recognizes the importance of protecting the health and safety of the public as well as the environment by preventing sewer flows from reaching surface waters and waters of the United States. This required implementation of procedures to minimize the impact of an SSO if one were to occur and comply with the requirements of state regulations.

In response to the potential occurrence of an SSO, the City prepared a *Spill Emergency Response Plan* (SERP) in Appendix D which establishes the formal procedures for City staff to respond to, contain, correct, and clean up SSOs, and minimize the effects of SSOs on the environment while protecting the public's health and safety. The City's SSOERP serves to supplement and be consistent with existing emergency plans and standard operating procedures currently implemented by the City. The overall plan facilitates coordination and mobilization of necessary equipment and personnel in an organized and efficient manner when responding to an SSO. The SSOERP also incorporates the Monitoring and Reporting Procedures mandated by the WDRs. The primary goal in establishing an official SSOERP is to ensure that City staff responds appropriately and efficiently to all known SSOs immediately.

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## **Chapter 5**

# **Fats, Oils, and Grease (FOG) Reduction and Management Program**

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Proper disposal and handling of waste containing excessive fats, oils, and grease (FOG) quantities is important since it can accumulate in the wastewater collection system and eventually block collection pipes and sewer lines, resulting in backups and overflows on streets, properties, and potentially in private residences.

Wastewater discharges containing high concentrations of FOG from food service establishments (FSEs) have been identified as the primary cause of blockages and overflows in the City's wastewater collection system. Overflows of wastewater into the storm water collection system that ultimately reach our natural bodies of water could be greatly reduced by controlling the discharge of FOG into the wastewater collection system. SSOs are readily preventable by good management practices and proper maintenance at FSEs.

Although the City's proactive preventative maintenance procedures have been successful in minimizing the frequency of SSOs, the City determined it will benefit from formally implementing a FOG Control Program. The program would serve to facilitate the maximum beneficial public use of the City's wastewater collection system while preventing blockages of sewer lines and pump stations, reducing the adverse affects on sewage treatment operations resulting from discharges for FOG into the system, and specifying appropriate FOG discharge requirements for FSEs discharging into the City's wastewater collection system. The FOG Control Program serves to establish the general prohibitions, restrictions, and requirements for FSEs that handle and discharge wastes containing FOG. It also provides information on various methods for effectively controlling and limiting the quantity of FOG discharged into the City's wastewater collection system. In addition to requiring compliance with the City Code, policies, and the WDRs, the FOG Control Program serves as an additional enforcement mechanism to require accountability by the FSE for site specific maintenance and management of the facility.

As with other agencies in the region, the City has had to cope with dwindling operating budgets. In light of this situation, staff is exploring the possibility of having an outside agency develop, implement, and enforce the City's FOG program initially. In this regard, the program can be run as a revenue neutral effort while the City contemplates the hiring of internal staff to run the program in its enforcement stage.

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# Chapter 6

## Wastewater Collection System

### Inspection and Assessment

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Routine inspection of wastewater collection system facilities provides a means to monitor the condition of the facilities and the effectiveness of the maintenance operations. Information obtained from routine inspections serves to:

- Identify existing or potential problems;
- Provide accurate information regarding any existing or potential problems;
- Isolate the location of any existing or potential problems;
- Provide information regarding the criticality of any existing or potential problems; and
- Facilitate identification of the optimal method to rectify problems.

Regular and systematic inspection and assessment of wastewater collection system infrastructure and easements provides a basis for identifying and scheduling capital improvements as well as identifying needed maintenance activities. The results of the overall assessment are then used to determine the funding required to repair, rehabilitate, and replace an aging collection system and to prioritize how the funds should be allocated. Recommendations for capital improvements will optimize the expenditure and efforts to operate a sewer collection system.

The City employs CCTV technology for the inspection of pipelines. With the use of the City's one (1) CCTV truck, the City began performing inspections of select sewer pipelines of the City's wastewater collection system. The City's efforts were initiated in March 2004 and include inspection of existing sewer pipelines as determined necessary and all new and rehabilitated pipelines to ensure contractor compliance with City design and construction standards. The city also contracted out CCTV inspection and assessment services of the entire wastewater collection system, including manholes, in 2008 and completed in 2009.

The City's CCTV truck is equipped with Granite XP GIS software developed by Cues. The inspection codes incorporated into the Granit XP Software are National Association of Sewer Service Companies (NASSCO) certified and comply with the Pipeline Assessment and Certification Program (PACP). The defect codes also include codes developed and incorporated by the City. The information obtained and recorded from the CCTV inspections is reviewed, recorded, and assigned a severity rating according to a rating scale developed by City staff. Permanent records of the inspections are made by capturing still images of the information on the TV screen and recording the information on portable hard drives and eventually transferred onto the City's network server. The City's CCTV inspection capability extends to pipes of various sizes.

# Wastewater Collection System Inspection and Assessment

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The City has purchased an upgraded version of Granite XP which now provides the following capabilities:

1. New Software version is fully supported by staff; originally purchased 2003
2. Replaced hard drive in the CCTV vehicle
3. New software provides the capability to integrate with ESRI products; especially important given that our sewer database is using the ESRI platform
4. The CCTV truck has wireless capability; staff can e-mail a problem after they encounter it in the field

Inspections are performed by a two (2) person crew and are typically performed subsequent to the cleaning of the particular pipeline sections to be televised. Daily progress is recorded by the inspection crew in daily reports submitted to the Wastewater Collection System Crew Chief and utilized for recording, tracking, and reporting purposes. As the necessity to televise a particular location or portion of the wastewater collection system arises, staff assignments are reorganized and resources are reallocated to accommodate the requirement. Although the City's goal includes televising the sewer system from north to south, east to west, the majority of the staff resources are currently devoted to performing routine cleaning and maintenance tasks. Thus minimal resources are available to televise and assess the City's wastewater collection system.

## 6.1 Inspection Equipment Specifications

Inspection and condition assessment of wastewater facilities is typically completed using Closed-Circuit Television (CCTV). All equipment inserted into a sewer line shall be of a type and design, which provides protection from hazards arising from the combustibility and flammability of vapors, liquids, gases, dusts or fibers. Safety requirements for all equipment or devices which will be in the sewer lines (Confined Space) shall comply with all existing CAL OSHA. A television camera, mounted on skids having either a track and wheel movement or rubber wheel movement that is controlled remotely, shall be used to capture the images. The cameras shall have a rotary head with rotational, pan and tilt movement in order to allow a full circumferential inspection and observe all portions of the pipeline. It shall have a high resolution lens capable of spanning 360 degrees circumference and 270 degrees on a horizontal axis to televise pipelines. Optical focal distance shall be adjustable through a range of 1 inch to infinity. The camera source image capture shall provide an image with a minimum resolution of 320 x 240 pixels capture. The cameras shall be operative while submerged.

## 6.2 Inspection Criteria and Standards

CCTV cameras offer valuable insight to the internal structural condition of buried infrastructure. Video inspection of sewer pipelines and manholes is used to locate and evaluate the existence and severity of defects which can contribute to potential overflows, may include missing pipe sections, broken pipe, root intrusion at misaligned joints or cracks, and potential sources of inflow and infiltration entering into the system through cracks in pipes, manholes or via illegal storm drain connections. This section provides recommendations for improvements to the City's inspection codes to provide more consistency and objectivity.

## 6.2.1 Pipeline Inspection

Uniform and consistent application of the observation codes, comments, and ratings is paramount in providing informative evaluation results. Utilization of standardized inspection observation codes by appropriately trained CCTV crew members serves to provide a consistent evaluation of the condition of the pipeline. The City Wastewater Maintenance staff utilizes the defect observation codes summarized in Table 6-1 to describe the interior condition of the pipe(s) during CCTV inspection. The severity rating levels utilized include Level 1 through Level 5. The severity rating Level I indicates a relatively adequate pipe needing maintenance, and Level V indicates conditions needing immediate attention, with incremental increases in severity between these levels. The severity rating level corresponding to the assigned defect observation code serves to assist City staff in determining whether further assessment of the condition is necessary.

# Wastewater Collection System Inspection and Assessment

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**Table 6-1  
Existing City Defect Observation and Severity Levels**

| <b>Rating</b>           | <b>Defect Observation Code Descriptions</b> |
|-------------------------|---|
| <b>Level I</b>          | Small Hair Line Crack in Pipe               |
|                         | Light Roots In Pipe                         |
|                         | Light Grease                                |
| <b>Level II</b>         | Cavity in Pipe Above the Water Line         |
|                         | Crack in Pipe But Not Visibly Open          |
|                         | Joint Gasket Exposed                        |
|                         | Root In Pipe and At Joint of Pipe           |
|                         | Roaches/Rats in Pipe or Manhole             |
| <b>Level III</b>        | Joint Offset (More than 1 1/2-inches)       |
|                         | Sag In Pipe                                 |
| <b>Level IV</b>         | Infiltration/Exfiltration in Pipe           |
|                         | Intruding Lateral or Other Objects in Pipe  |
|                         | Fracture in Pipe At or Below Water Line     |
|                         | Joint Separation in the Pipe                |
| <b>Level V</b>          | Pipe is Collapsed                           |
|                         | Hole in Pipe at or Below Water Line         |
|                         | Multiple Cracks with Soil Visible           |
|                         | Missing Pipe                                |
| <b>Other City Codes</b> | Stub Lateral                                |
|                         | Sewer Manhole                               |
|                         | Cleanout                                    |
|                         | Dead End                                    |
|                         | Change in Pipe Diameter                     |
|                         | Change in Pipe Material                     |

# Wastewater Collection System Inspection and Assessment

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The current system relies on the CCTV operator's subjective assessment of the entire reach of pipe between two manholes. Different operators and reviewers will reach different conclusions, resulting in inconsistent rankings. Also, the defect coding should be independent of the severity of the specific type of defect. The City's current defect code description does not allow for multiple conditional defects to be properly identified and documented. This results in inappropriate repair, rehabilitation, and replacement recommendations (e.g. a recommendation for rehabilitation or replacement may be made when a point repair may be sufficient). Since defects can often be ranked on severity, such as light, moderate, heavy, or critical, the system should document and record these severity levels to better facilitate appropriate repair and/or rehabilitation methods as thus the selection of CIP improvements during the assessment process as is described below. The process currently used by the City requires staff to re-evaluate the CCTV data and images of a pipe segment to determine the most appropriate CIP recommendation. This results in duplicative efforts because the videos must be reviewed multiple times: once to determine the severity, and then again to develop the best renewal solution.

Defect observation codes should be utilized in conjunction with digital information to document the condition of the entire pipe segment. Due to the wide range of potential conditions that may be encountered during inspection of each individual facility, the observations developed and utilized should encompass a wide range of typical observations encountered with additional detailed descriptions to further refine the data in a format easy for querying. Attachment A provides the recommended observation codes and descriptions that the City should implement to document potential conditions encountered during the inspection of sewer pipe segments.

Each defect observation code, identified by a one, two, or three letter designation, is easy to memorize and represents most of the conditions that an operator will encounter. A severity level of A through E is provided for each applicable defect, and each contains a detailed description to assist the operator to objectively assign the most appropriate observation defect code. For each type of defect encountered, a severity level should be assigned to provide comprehensive and detailed information for each pipe segment inspected. City staff will need to reevaluate the preliminary recommended method of repair or improvement to ensure the most appropriate improvement method is implemented.

## 6.2.2 Pipeline Inspection Frequency

It is Pomona's goal to inspect each pipeline segment at least once every five (5) years to document the condition of the pipes and establish benchmark information that allows staff to identify trends and predict useful life. As of today, the City and contractor have been able to inspect all of the pipelines in the wastewater system. Also, segment that experience an SSO should be inspected within 24 hours after the spill or as soon as practical if longer. As well, other segments may require more frequent inspection, such as pipes that are close to the end of their useful life or segments prone to problems. These segments should be documented and scheduled in the City's CMMS system (discussed more fully below). Using a five (5) year schedule, one (1) City CCTV crew would need to complete approximately 80,750 lineal feet of inspections every quarter. Industry standards indicate crews can complete an average of 3,000 lineal feet of inspection per day. Consequently, City crews would need 27 days per quarter, or about 7 days per month, to complete the routine inspection of the entire wastewater collection system within a five (5) year period.

# Wastewater Collection System Inspection and Assessment

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With the help of Trans Consulting Engineers, entire system was completed within 24 months. The City implemented efforts to ensure consistency was maintained throughout the inspection and assessment process.

## 6.2.3 Manhole Inspections

As an integral part of the wastewater collection system, access manholes require the same degree of inspection and maintenance as the pipeline sewer network. Manhole inspections are generally visual and include evaluating the condition of the manhole cover, ring, barrel, steps (if included), trough, and bench for any defective condition. About 15% of the manholes were inspected and recorded by Trans Consulting Engineers. During the course of the mainline cleaning, maintenance personnel can note manhole deficiencies on the daily worksheet. During the inspection of manholes, the following information is obtained and documented for assessment of sewer manholes and future planning purposes:

- Exact location of the access manhole (inaccessible, buried, etc.)
- Diameter of the clear opening of the manhole
- Condition of frame and cover (include defects that allow inflow to enter)
- Access manhole lid is located at proper grade or elevation
- Whether cover is subject to ponding or surface runoff
- Type of material and condition of the cone and walls
- Condition of steps, cone and riser joints
- Configuration, size, and type of the incoming and outgoing lines (including drops)
- Signs of leakage in the riser or damage to the frame's seal
- Observed infiltration sources and the rate of infiltration, and
- Indications of height of surcharge

Attachment B shows a Pomona's typical manhole inspection form that has been coded for easy conversion into a database to facilitate queries on manhole condition, location, and construction. As stated before, the City has started start documenting manhole inspections. The inspections should occur concurrently with pipeline cleaning and inspections.

## 6.3 Assessment Criteria and Procedures

Data obtained from inspection of the sewer system pipelines and manholes provides essential information to evaluate the existing system conditions and assess the criticality of potential defects. As the information is obtained and recorded during the CCTV inspections, City wastewater and engineering staff should review, evaluate, and identify the defects according to established criteria and standards noted in Attachment A. Based on the assigned defect, the appropriate severity rating level is determined. The severity rating assigned to the pipeline segment inspected should correspond to the severity description provided and according to the type of observation code.

# Wastewater Collection System Inspection and Assessment

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The severity ratings, which are provided for each potential defect code, include rating levels A to E. The severity rating levels serve to quickly capture descriptive information that is specific to the type of defect observation code assigned. Urgent issues and conditions, often reflective of level E conditions, should be brought to the engineering staff's attention for immediate resolution. For the remainder of the data, staff can implement a routine process to evaluate the data on a quarterly basis, using the coding and point values to sort the problematic conditions for review and consideration.

The results of the assessment are utilized to determine the most effective method of repair or rehabilitation to restore the facility to its most efficient state. A comprehensive assessment of all defects noted and preliminary repairs and rehabilitation methods recommended is performed to ascertain the condition of the portion of the wastewater collection system televised. Based on the comprehensive evaluation, projects are identified and prioritize based on the impact to the overall wastewater collection system. Once the projects, identified via this inspection and assessment process, are prioritized, the potential project costs are determined based on the recommended repair, rehabilitation, or replacement method. Using the priority and criticality ranking, the project is included and scheduled into the City's CIP for proper funding allocation.

## 6.3.1 Condition Criticality Criteria and Ranking

During the assessment process, each pipeline segment and manhole is ranked to indicate the criticality of the asset condition. Table 6-2 provides a summary of the general criticality ranking associated with the severity of the condition of the asset as well as the recommended response time to complete the recommended action. The assets should be ranked from 1 to 5. A criticality rating of 1 is assigned to an asset in good condition, with only maintenance work being required, and a criticality rating of 5 is assigned to an asset in the worst condition and requiring immediate attention.

**Table 6-2  
Condition Criticality Ranking**

| 1        | 2        | 3        | 4         | 5             |
|----------|----------|----------|-----------|---------------|
| Good     | Adequate | Moderate | Poor      | Failing       |
| Maintain | Maintain | 5+ Year  | 3-5 Years | High Priority |

The criticality ranking is assigned based on the severity of the defect condition of each pipe segment should be based on specific criteria for each type of defect observation. Table 6-3 includes descriptions of the severity levels (A through E) as summarized in Attachment A, for each type of defect observation and the corresponding condition criticality ranking for pipe segments. These descriptions are used to help staff reviewing inspection data to determine the severity of the condition or maintenance required.

With an assigned defect code and severity description assigned to a pipe segment, staff is able to make a preliminary recommendation for each pipeline segment. Table 6-4 includes a summary of typical preliminary recommendations available for each type defect observation and severity ranking.

# Wastewater Collection System Inspection and Assessment

Similarly for manholes, staff uses a uniform rating system to rank the severity of the manholes and make preliminary recommendations. Table 6-5 shows the criteria to determine the severity for the various defect code observations made during manhole inspections.

**Table 6-3  
Pipeline Severity Assessment Criteria and Condition Criticality Ranking**

| Observation  | Severity Criteria and Criticality Ranking |                                    |   |   |   |
|--|---|------------------------------------|---|---|---|
|  | 1   | 2                                  | 3                                       | 4   | 5                                       |
| Cracks<br>• Circular<br>• Longitudinal<br>• Multiple | None                                      | Very small hair line crack(s)      | Hair line crack(s) <50% of ID in length | Cracks ≤1/8" wide or >50% of ID in length | Cracks >1/8" wide                       |
| Broken Pipe  | None                                      | Connecting cracks, no displacement | Connecting cracks, displacement ≤1/4"   | Connecting cracks, displacement >1/4"     | Collapsed pipe, impassable              |
| Joints - Offset                                      | Minimal                                   | Up to 1/2 of the pipe thickness    | 1/2 to thickness of the pipe            | Thickness of the pipe to 1 1/2 times      | > 1 1/2 times the thickness of the pipe |
| Joints – Separation                                  | None                                      | Gasket exposed                     | Bell exposed                            | Dirt exposed at top                       | Dirt exposed at invert                  |
| Roots  | Minimal                                   | 10% to 35% Fine roots              | 35% to 60% Fine/medium roots            | 60% to 80% Medium roots                   | 80% to 100% Tap root(s) visible         |
| Grease   | None                                      | ≤1/4" thick                        | 1/4" to 1/2" thick                      | 1/2" to 2" thick                          | >2" thick                               |
| Debris Accumulation                                  | Minimal                                   | Sporadic deposits (no rocks)       | ≤10% of ID (no rocks)                   | 10% to 25% of ID and/or rocks             | >25% of ID or impassable                |
| Erosion (typical concrete pipe)                      | None                                      | Rough surface                      | Exposed aggregate                       | Exposed rebar                             | Missing concrete                        |
| Corrosion (metal pipe only)                          | None                                      | Minimal                            | Light tuberculation                     | Moderate tuberculation                    | Impassable, heavy tuberculation         |
| Mineral Deposits                                     | None                                      | Minimal (possible infiltration)    | ≤10% ID thickness                       | >10% ID thickness                         | Impassable, heavy mineral deposits      |
| Infiltration   | None                                      | Dripping                           | Seeping                                 | Constant stream                           | Gushing water                           |
| Sag  | None                                      | Minimal (probably not perceptible) | ≤25% of ID                              | 25% to 75% of ID                          | >75% of ID                              |
| Flow Capacity  | Minimal                                   | 2/5 or less full                   | 2/5 to 1/2 full                         | 1/2 to 3/4 full                           | 3/4 to totally full                     |



# Wastewater Collection System Inspection and Assessment

**Table 6-4  
Preliminary Pipeline Recommendation Criteria**

| Observation                                       | Condition Criticality Ranking |                           |                                       |   |   |
|---|-------------------------------|---------------------------|---------------------------------------|---|---|
|   | 1                             | 2                         | 3                                     | 4   | 5   |
| Cracks<br>•Circular<br>•Longitudinal<br>•Multiple | No Action                     | No Action or Rehabilitate | No Action or Rehabilitate             | Rehabilitate                              | Rehabilitate or Replace                   |
| Broken Pipe                                       | No Action                     | No Action or Rehabilitate | Point Repair or Rehabilitate/ Replace | Point Repair or Replace                   | Immediate Point Repair                    |
| Joints – Offset                                   | No Action                     | No Action or Rehabilitate | Point Repair and/or Rehabilitate      | Point Repair and/or Rehabilitate/ Replace | Point Repair and/or Rehabilitate/ Replace |
| Joints – Separation                               | No Action                     | Rehabilitate              | Rehabilitate                          | Point Repair and/or Rehabilitate/ Replace | Rehabilitate or Replace                   |
| Roots   | No Action                     | Clean and Rehabilitate    | Clean and Rehabilitate                | Clean and Rehabilitate                    | Clean and Rehabilitate/ Replace           |
| Grease  | No Action                     | Clean                     | Clean                                 | Clean                                     | Clean                                     |
| Debris Accumulation                               | No Action                     | Clean                     | Clean                                 | Clean                                     | Clean                                     |
| Erosion (typical concrete pipe)                   | No Action                     | Rehabilitate              | Rehabilitate or Replace               | Rehabilitate or Replace                   | Replace                                   |
| Corrosion (metal pipe only)                       | No Action                     | Ream and Rehabilitate     | Ream and Rehabilitate                 | Replace                                   | Replace                                   |
| Mineral Deposits                                  | No Action                     | No Action or Rehabilitate | Point Repair or Rehabilitate          | Rehabilitate                              | Rehabilitate                              |
| Infiltration                                      | No Action                     | No Action or Rehabilitate | Point Repair or Rehabilitate          | Rehabilitate                              | Rehabilitate                              |
| Sag   | No Action                     | No Action                 | Any Option                            | Replace                                   | Replace                                   |
| Flow Capacity                                     | No Action                     | No Action                 | No Action                             | Evaluate Capacity                         | Evaluate Capacity                         |

# Wastewater Collection System Inspection and Assessment

**Table 6-5  
Manhole Severity Assessment Criteria and Condition Criticality Ranking**

| Observation            | Condition Criticality Ranking |  |  |   |                                 |
|------------------------|-------------------------------|--|--|---|---------------------------------|
|                        | 1                             | 2  | 3  | 4   | 5                               |
| Cover                  | Good condition                | Slight corrosion   | Moderate corrosion   | Severe corrosion  | Missing                         |
| Frame                  | Good condition                | Slight offset  | Offset < 1"  | Offset 1" to 3"   | Missing or offset >3"           |
| Grade Adjustments      | Good condition                | Hairline cracks  | Cracks with gaps or some corrosion                         | Large gaps or spalling                                  | In pieces and/or offset         |
| Cone/Top               | Good condition                | Rough surface  | Exposed aggregate and/or offset < 1"                       | Exposed aggregate and/or offset 1" to 3"                | Dirt visible and/or offset >3"  |
| Wall/Barrel            | Good condition                | Rough surface and/or slight offset                       | Exposed aggregate and/or offset < 1"                       | Exposed aggregate and/or offset 1" to 3"                | Dirt visible and/or offset >3"  |
| Bench                  | Good condition                | Rough surface  | Exposed aggregate  | Exposed aggregate, ponding water                        | Missing concrete, ponding water |
| Trough                 | Good condition                | Rough surface  | Eroded edges   | Deformed trough   | No trough                       |
| Pipe Seal              | Good condition                | Concrete backfill visible                                | Gaps and shadows visible                                   | Infiltration evident, roots incoming                    | Dirt visible                    |
| Infiltration           | None                          | Dripping   | Seeping  | Constant stream   | Gushing water                   |
| Lining (if applicable) | Good condition                | Tiny bubbles in lining but no visible breaches in lining | Bubbles/ separation from MH and visible breaches in lining | Evidence that lining is separating in sections > 1 s.f. | Lining is torn and/or missing   |

Applying these assessment standards, City staff can objectively determine the general condition of the inspected pipes and manholes, primarily using the severity of the asset assigned according to the defect observation code assigned (Attachment A). Processing the initial review data results can assist in narrowing the focus to segments and manholes that require immediate improvements. Detailed review and evaluation of the facilities based on the preliminary severity and criticality and the recommended improvements will refine the method of repair or rehabilitation as well as facilitate the timing of the required improvement. Table 6-6 is a summary of criteria that may affect and reclassify the type of repair or rehabilitation method required.

# Wastewater Collection System Inspection and Assessment

**Table 6-6  
Re-Classification Criteria**

| Rules |  |
|-------|--|
| 1     | If the line segments upstream and downstream of a segment are to be replaced, then the segment in between will be shifted to replacement.  |
| 2     | If a larger line flows into a smaller line, then it will be replaced to a point of similar size pipe or larger pipe to normalize the pipe size. A specific application of hydraulic modeling will be required to keep the smaller line size. This rule is intended to prevent conditions where pipe sizes decrease going downstream. |
| 3     | If a line segment includes un-reinforced concrete pipe in combination with other materials, then the concrete pipe will be replaced.   |
| 4     | If a pipe is more than 30 years old and requires more than two point repairs, it will be shifted to rehabilitation depending on hydraulic condition, slope and location.   |
| 5     | If a segment is classified as point repair and rehabilitation, then the segment will be shifted to rehabilitation.   |
| 6     | If a pipe is classified for rehabilitation or replacement, but a review of the video indicates that the defects are minor and there are no adjoining replacement projects, then the segment will be shifted to maintenance.  |
| 7     | If a pipe is classified as point repair, but a review of the video indicates that the point defect is not likely to cause a spill, then the segment will be shifted to maintenance.  |
| 8     | If a segment is classified as rehabilitation or point repair, and an adjoining segment is classified for replacement, then the segment will be shifted to replacement.   |
| 9     | If a segment is classified as point repair, and an adjoining segment is classified as rehabilitation, then the segment will be shifted to rehabilitation.  |
| 10    | If a segment is classified for maintenance or rehabilitation, and it has one major defect, it will be shifted to rehabilitation.   |
| 11    | If a segment is classified as evaluate for rehabilitation or replacement, then the segment will be shifted to rehabilitation or replacement after review of the video and other data.  |
| 12    | If a segment is classified as point repair, and review of the video indicates the pipe is in poor condition, then the segment will be shifted to replacement or rehabilitation depending on location, slope and hydraulic information.   |
| 13    | If a pipe is in a high traffic area or an environmentally sensitive area, rehabilitation may be preferable to open-trench replacement.   |
| 14    | The recommendation of the CCTV operator was considered during the manual review, but it did not automatically override the initial classification.   |
| 15    | A Planning Report or Pre-Design Report will take precedence over the CCTV Inspection reports. The CCTV inspection report is intended to further support the Planning or Pre-Design Reports.  |

At the completion of the assessment efforts, CIP projects and repairs will be identified and prioritized based on the observable conditions. This information will be used by staff to appropriately budget and schedule future work. The next section describes common repair, rehabilitation, and replacement methods available to the City.



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# Chapter 7

## Repair, Rehabilitation, and Replacement Options

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Wastewater collection system repair, rehabilitation, and replacement is necessary to restore and maintain the structural integrity of the collection system and to provide adequate hydraulic capacity, including the reduction of I/I. The purpose of developing and implementing a repair and rehabilitation program is to cost-effectively maintain system performance and extend the service life and maintain system capacity of the City's sewer infrastructure. Specifically, a well developed program should serve to:

- Improve the performance and reliability of the system;
- Reduce ongoing maintenance costs;
- Reduce groundwater infiltration and stormwater inflow (I/I);
- Provide adequate capacity to reduce incidents of overflow;
- Maintain the value and extend the service life of this publicly owned asset; and
- Comply with current and anticipated future public health and environmental regulations.

This section describes the City's current repair efforts, describes the various repair, rehabilitation, and replacement methods available, and outlines criteria to help identify which method would be the most appropriate and cost effective for a given situation.

### 7.1 Current City Repair Procedures

The City's Wastewater Operations Section is responsible for performing various types of wastewater facility repairs and rehabilitation improvements. Repair and rehabilitation work performed by crews may include point repairs at cracks, joints, and service interfaces, repairing collapsing or broken sewer pipe, removing obstructions in the sewers that hinder cleaning operations, manhole rehabilitation, video inspection and other related work. Repairs that require resources beyond those available within the Wastewater Maintenance Section, including staff and equipment, are coordinated and scheduled with other sections including the Water Distribution and Engineering Section. In conjunction with the City's Water Distribution Section's staff and equipment, the Wastewater Maintenance staff is responsible and able to implement mitigation efforts and perform limited repairs for pipeline up to 12-inch in diameter to restore or replace failing wastewater collection sewer lines. Repairs for pipelines greater than 12-inches in diameter or that require an extensive construction effort are performed by independent contractors retained by the City.

### 7.2 Capital Improvement Program (CIP) Improvement Options

Several factors set the priority of projects identified during the assessment process, although the condition of the pipe is usually the primary factor. Additional factors may include goals to reduce spills, reducing infiltration and inflow in pipes located below the water table, or reducing maintenance efforts by improving the pipe condition. Other considerations

# Repair, Rehabilitation, and Replacement Options

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include coordinating pavement rehabilitation and utility improvements with the other agencies that may be impacted by improvements.

Also, the available methods to repair and rehabilitate a segment or manhole, in lieu of actual replacement, factor into the decision. Certain methods can be performed quickly and with little impact to the community at a fraction of the cost of replacing a facility but the ability to maintain rehabilitated facilities, along with the estimated benefits, must be considered. As a reminder, the selection of a method based on the general rules below is not a substitute for the experience and knowledge of the staff and engineers performing the assessment. The unique situation and condition of each segment must be considered when finalizing recommendations. As such, not every recommendation will rigidly adhere to the methods and rules below.

## 7.2.1 Determining the Best Improvement Method

Sewer collection systems can be rehabilitated without construction of new replacement or relief sewers. In many cases, the sewer problem may have isolated or point defects that can easily be repaired. Replacement of a portion on an existing system can be very disruptive to a community, and alternative construction techniques, such as lining, can significantly reduce the impacts and provide a cost effective option to replacement. Of course, there are cases where due to the age of the sewer and the extent of defects, there may be no alternative but to replace the sewer line.

There are several alternatives to consider for the rehabilitation of sewer infrastructure. Depending on the severity of the defects identified by the inspection and assessment process, rehabilitation alternatives include point repairs, lining and other no-dig alternatives.

A typical approach to selecting appropriate rehabilitation alternatives is described in the following sections and are summarized Table 7-1 below.

**Table 7-1  
Sewer Pipeline Improvement Alternatives**

| Description of Defect   | Recommended Method   |
|---|--|
| Roots, broken or cracked pipe, misaligned or open joint, and/or grade break at 1 or 2 locations along a pipe segment.   | Point repair (if total pipeline length is > 300 feet);<br>Replacement (if total pipeline length is < 300 feet) |
| Roots only, more than 2 locations   | Lining, Chemical Herbicide or Repetitive Cleaning  |
| Multiple cracks only – minor to medium  | Lining   |
| Roots at most joints with multiple cracks, no offsets   | Lining   |
| Roots at most joints with major offsets, breaks, major cracks or major grade breaks and all other conditions not noted. | Replacement  |
| Severe defects requiring replacement in difficult to access locations or areas of high traffic congestion               | Pipe bursting, bore and jack, directional drilling or micro tunneling  |



## 7.2.2 Infrastructure within Easements

Sewer mains located in easements are a concern due to inadequate access to maintain these facilities and to replace with traditional dig and replace methods. Sewer mains in easements with poor or no access for maintenance or emergency repair work often result in higher repair costs due to using specialty access equipment, hand labor, and mitigation of unplanned environmental impacts. Another option is using carrier pipes or casings in the easements, so that sewer mains can be replaced from outside the constrained easement areas. Private pumping is also an option. In most cases, the topography of the area will dictate the alignment of the new gravity sewer system. As such, relocating easement sewers may not be cost effective.

Realignment of sewers is often costly because the associated expenses include realignment and construction of new facilities, as well as abandoning the old facilities. If the annual cost of maintaining an aging sewer within an easement, plus the benefits to the community and environment, outweigh the capital expense to relocate, it may be prudent to relocate easement sewers. However, if operations staff can adequately access the sewer, and the facility is in good condition or easily improved, the sewer does not need relocating. To properly evaluate the feasibility of realigning pipelines, with poor or no access, into the public streets and out of private property, the City should conduct re-direction of flow studies on a case-by-case basis to consider alternatives and recommend accessibility improvements. The new sewer hydraulic model can be used to facilitate possible flow scenarios.

The following sections describe common sewer improvement methods available for pipelines and manholes, and include advantages and disadvantages of each method.

## 7.2.3 Pipe Point Repairs

Where defects are documented at one or two locations between manholes via the video inspection and assessment process, point repairs may be recommended. However, for pipe segments less than 300 feet in length, with defects noted in two locations, implementation of point repairs may affect the integrity of the remaining pipe. Therefore, the replacement of the entire pipe segment is recommended. Point repairs are cost effective alternatives to full pipe replacement if remaining portions of the pipe are in good condition as noted from video inspections. The following methods are common point repair options available to correct localized deficiencies in pipes.

### Grouting Sleeve System

The grouting sleeve system is a trenchless, mechanical, spot repair technology designed for the permanent repair of straight, short sections of damaged sewers. The grouting sleeve has been installed in pipes with full flow; however, high velocity flows may result in reduced amounts of grout, which will increase the chance of infiltration and exfiltration. Most repairs can be carried out in approximately 30 minutes.

The core element uses a stainless steel grouting sleeve with a maximum thickness of  $\frac{3}{4}$  inch, and in lengths of 1, 2, and 3 foot long segments. The annular space between the stainless steel and the host pipe is filled with grout. Various grouts are available for different pipe conditions. Curing commences 20 minutes after the grout is exposed to water. The result is a cured-in-

## **Repair, Rehabilitation, and Replacement Options**

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place pipe repair with a protective stainless steel cover. The grouting sleeve is designed to retain its structural strength for a minimum of 100 years. The average product life predicted by manufacturers is 225 years.

### **CIPP Sleeve**

A Cured-in-Place Pipe (CIPP) sleeve involves inverting an 8-ft long resin-impregnated fabric tube into a clean, existing pipeline, then curing it in place with hot water or steam. It is a seamless, jointless, pipe-within-a-pipe capable of rehabilitating pipes as large as 96-inches in diameter. CIPP can provide a system with independent structural integrity that does not rely on the host pipe for strength. CIPP can significantly reduce infiltration and exfiltration and acts as a root barrier. CIPP is a structural product with a 100-year design life.

### **Robotic Sewer Pipe Repair (Grinding and Epoxy Coating)**

Robotic repair systems for gravity pipelines use grinding and filler robots. The former removes encrustation and intrusions and mills out cracks to provide a good surface for adherence by the repair materials. High pressure air, steam, or water cleaning, with or without approved cleaning agents, is used to clean the inside of the existing pipe wall. Cleaning includes the removal of all fine residues in the prepared area produced by grinding. The filler robot inserts an epoxy mortar into the slot formed by the grinder and trowels off the excess material for a smooth finish. Repair robots are equipped with CCTV cameras to ensure adequate visibility of the work area. Robots are positioned in the pipe and all work functions are executed remotely by the operator.

### **Open Trench**

Excavation for open trench repair is the traditional dig and repair method. A spot repair is a good option when the problem area is easily accessible, confined to one spot, and the remainder of the pipe is in good condition. Open cut excavations involve digging a trench to replace segments of pipe up to about 8 feet long. Open trench repairs are usually associated with large disruptions to the area surrounding the project and can take longer to complete than trenchless options.

#### **7.2.4 Pipe Lining**

Pipeline lining offers a trenchless method to rehabilitate deteriorating sewer mains. Since no open trench is required during the lining application, there is minimal disruption to residents and business owners during construction. Lining of sewer mains is recommended for pipes with rooting problems and/or cracks with no major offset joints. Lining is not recommended for offset joints identified from data over 10 years old since the severity of offsets has likely increased over time. Additional inspection and possible trenchless point repairs, such as grinding, may be required before lining can proceed, or replacement is deemed the best alternative.

Where breaks, major offsets, or bends are noted in the video inspections, lining is not recommended because the lining material tends to constrict, fold, or collapse where these defects occur. In choosing an appropriate repair method, there may be cases where it may be cost effective to consider combining point repairs with lining.

## CIPP Pipe Lining

Cured-in-Place Pipe (CIPP) lining involves inverting a resin impregnated fabric tube into a clean, existing pipeline, then curing it in place with hot water or steam. Fold-and-form lining requires pulling a fabric tube, saturated with a resin and folded into a U-shape, into a clean, existing pipe, then expanding the tube to the shape of the pipe with pressurized water before curing with heated water or steam. Both of these methods require the flow to be plugged or diverted during the process.

Spiral wound pipe involves inserting a continuous strip of reinforced plastic into an existing pipe, in a manner that causes the edges to interlock and form a watertight seal. Spiral wound pipe, usually in 6-inch and 8-inch wide strips, can be installed in a live sewer.

The lining methods presented can provide a strong system that does not rely on the host pipe for strength.

## 7.2.5 Pipe Replacement

Replacements of pipe segments are recommended where multiple occurrences of breaks, cracks, misaligned joints, grade breaks, and moderate to excessive roots are identified in the video inspections. Replacement is also the preferred alternative when upsizing the pipe diameter to accommodate increased flows, and for relatively flat segments. Where pipe replacement is recommended, replacement of both manholes at each end of the pipe is also recommended. The following sections describe methods available for replacing pipelines.

### Open Trench

Open trench excavation is a traditional dig and repair method. It involves extensive digging and trenching to replace large sections and is associated with large disruptions to the immediate area surrounding the project and can take longer to complete when compared to trenchless options. Pipeline replacement using open trench methods requires long stretches for efficient pipe laying, which causes extreme disruption to the community.

### Pipe Bursting

Pipe bursting offers a solution to replacing defective pipe that has access at its end points but not between, such as pipe that crosses a freeway or major intersection. The alignment must be straight with very minor or no sags and adequate slope. Access pits are required at the ends of the pipe segment being burst. If any service connections must be reinstated, access pits are required at these locations as well. The size of the pipe can generally be increased to the next standard pipe diameter above the existing diameter, and possibly two (2) standard pipe sizes depending on the existing soil conditions and adjacent utilities. The material used for the replacement pipe includes high density polyethylene (HDPE) pipe or joint-fused PVC pipe. This method may be more costly than traditional dig and replace, but it is generally faster and less disruptive to the community, thereby resulting in intangible benefits.

# **Repair, Rehabilitation, and Replacement Options**

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## **Jack and Bore**

Jack and Bore for installation of pipe includes a multi-stage process consisting of constructing a temporary horizontal jacking platform and a starting alignment track in an entrance pit at a desired elevation. The pipe is jacked by manual control along the starting alignment track with simultaneous excavation of the soil being accomplished by a rotating cutting head in the leading edge of the annular space in the pipe. The ground up soil (spoil) is transported back to the entrance pit by helical wound auger flights rotating inside the pipe. Jack and Bore typically provides limited tracking and steering as well as limited support to the excavation face. Consequently, Jack and Bore is not suited for gravity lines with shallow slopes or in sand or other loose fill materials.

## **Directional Drilling**

The use of directional drilling is used primarily of the installation of pipe under crossings. In addition to crossings under rivers and waterways, directional drilling can be used for the installation of pipes under highways, railroads, airport runways, shore approaches, islands, areas congested with buildings, pipeline corridors and future water channels. This type of pipe installation requires a large staging area and work space for the multiple operations involved in the installation process.

## **Micro-tunneling**

Micro tunneling is conducted similar to Jack and Bore with the exception that it is a remotely controlled, guided pipe jacking process that provides continuous support to the excavation face. The guidance system usually consists of a laser mounted in the tunneling drive shaft which communicates a reference line to a target mounted inside the microtunneling machine's articulated steering head. The microtunneling process provides the ability to control the excavation face stability by applying mechanical or fluid pressure to counterbalance the earth and hydrostatic pressures. This process avoids the need to have long stretches of open trench for pipe laying, which causes extreme disruption to the community.

### **7.2.6 Manhole Renewal and Replacement Options**

Manhole rehabilitation varies greatly due to the various components of a manhole. Several manhole rehabilitation options are summarized in the subsections below.

#### **Concrete Liners – Poured-in-Place**

A poured-in-place seamless concrete manhole liner extends from the bench to the frame. Prior to installation, the manhole should be cleaned to remove loose material and debris. Existing steps that might interfere with the erection of forms should be removed. Infiltration that may adversely affect placement of the concrete should be eliminated or reduced to an acceptable level. After steel forms are positioned in the manhole, concrete is poured into the forms. When the concrete has sufficiently cured, the forms are disassembled and removed. A polyvinyl chloride (PVC) or high density polyethylene (HDPE) liner is fitted to the exterior of the steel forms during erection within the manhole and when the forms are removed, joints in the liner are welded and tested. This method results in a loss of three to six inches of manhole diameter.

### **Liners – Cured-in-Place**

Cured-in-place (CIP) liners for manhole chimneys are made of stretchable, “one size fits most”, coated polyester and are vacuum impregnated with a silicate resin. Prior to curing, the manhole chimney should be cleaned with a minimum of 5,000 psi pressure, grinder, or sand blasting. Large voids must be filled with hydraulic cement and interfering steps must be removed. Then, the liner is inserted and impregnated under controlled conditions. Resins may be heat or steam cured. Resins that cure under ambient temperature and pressure are available. CIP liners have a high level of chemical resistance, eliminate inflow and infiltration, and structurally enhance the manhole chimney. A two person crew often installs these liners. The liner is typically backed by a ten-year, non-prorated, material and labor warranty from the manufacturer and the installer.

### **Cementitious Coatings and Grouts – Sprayed, Pumped, and Troweled**

Cementitious coatings and grouts are centrifugally applied to the manhole walls. To prepare the surface, cover the manhole base to prevent washed debris from entering the sewer line. Then, wash the interior surface with at least a 3,500 psi water blast. Pressures sufficient to etch the existing surface will improve adhesion. Plug active leaks with adequate plugging material and fill voids and overhangs with patching material prior to application of mortar. The synthetic mortar is cast from a robotic applicator positioned in the center of the manhole. A dense, uniform layer is compacted in place at any thickness from 0.5 inch to 2.0 inches depending upon the degree of deterioration and the depth of the manhole. Multiple passes can be made until the specified thickness is attained. Cementitious coatings are typically a fast setting, ready-to-use, cement-based concrete and masonry patching compound formulated specifically for underwater use. When properly mixed and applied, they can develop a very high strength bond, but they are still prone to chemical corrosion. A quick-setting hydraulic cement compound can be used to stop running water or seepage leaks in masonry or concrete.

### **Polymer Coatings and Grouts – Sprayed, Pumped, Troweled**

**Polyurethane Coating.** A Polyurethane coating is characterized by a multi-layered polyresin liner system, consisting of a moisture barrier (modified polymer), a surfacer (polyurethane/polymeric blend foam), and a final corrosion barrier (modified polymer). Before system application, the surface is prepared by hydro blasting to remove all corrosion from the structure. Any cracks and holes that leak are sealed with a chemical or hydraulic sealant. Severe cracks are repaired using a urethane based chemical sealant. Repairs to exposed rebar, defective pipe penetrations or invert, etc. are done utilizing non-shrink grout or an approved alternative method.

**Epoxy Coating.** A structural epoxy manhole liner system provides a stand-alone, self-supporting structure when applied with a thickness of at least 0.25-inch. The system will protect new concrete from hydrogen sulfide attack, seal out infiltration, enhance the flow, and reduce buildup in the structure when applied with a thickness of at least 0.10-inch. Prior to application, damaged concrete and contaminants must be removed. Surfaces should be cleaned and abraded with low-pressure water cleaning until the pH does not exceed 8.5. Detergent water cleaning and hot water blasting may be used to remove oils and grease from the concrete. Active water infiltration should be stopped by using a hydroactive urethane grout that is

## **Repair, Rehabilitation, and Replacement Options**

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compatible and suitable for topcoating with the epoxy manhole liner system. The two-part epoxy system is formulated with special additives and modifiers to enhance water and chemical resistance and to increase internal strength. This epoxy system allows for a long open time before topcoating is applied, cures at low temperature and high humidity, and provides water and chemical resistance with ambient cure. Epoxy coating tends to be between 25 and 40 percent more costly than polyurethane coating; however, its product life usually lasts between 10 to 20 years.

### **Mechanical Seals and Inserts**

PVC inserts and mechanical seals are installed between entry castings, precast concrete cones, and flat top sections for a corrosion resistant and watertight connection. The connector is flexible so that freeze/thaw and heat expansion cycles do not compromise the watertight integrity. It provides relatively easy installation and does not require special tools or special preparation of the existing manhole surface. In addition, its design allows for future grade adjustment (up to 14 inches) without added parts. The connector is available for manhole openings of 24-inch, 27-inch, and 30-inch diameters.

# Chapter 8

## CIP Development

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A well planned and long range Capital Improvement Program (CIP) for the wastewater collection system allows the City to plan, design, and construct sewer infrastructure projects in a planned and organized manner that best serves its customers. Integrating the results of the inspection and assessment efforts, with the capacity modeling efforts, the City will pursue a proactive and comprehensive long-range planning effort.

Prioritizing projects relies on the several factors including:

- Severity and extent of the conditional defects (Red Flags)
- Hydraulic capacity needs and projections
- Estimated remaining useful life of the facilities
- Maintenance records (condition findings) and SSO occurrences
- Identified major new developments
- Risk if it fails
- Integration with local paving projects

Using this data, the engineering staff, with input from the wastewater collection system staff, develops a short and long term CIP list of projects, which identifies projected costs and dates for start and end of construction. The wastewater and engineering staff reviews the list every year to revise the priorities and update estimated costs based on new information. This process ensures that the necessary projects will be completed timely, thereby reducing the potential occurrence of an SSO.

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# Chapter 9

## Computerized Maintenance Management System (CMMS)

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Use of a Computerized Maintenance Management System (CMMS) provides a method for agencies to track equipment, maintain an inventory of its assets, detail timing and method in which work orders will be performed to maintain the assets, and accumulate all associated costs for labor, materials and equipment. The ability to track activities such as scheduled and performed work, and workforce productivity will allow City staff to determine the resources necessary for routine preventive maintenance activities as well as additional activities necessary to ensure proper operation and maintenance of the City's wastewater collection system.

A versatile CMMS in conjunction with a GIS-based tool for maintaining specific wastewater collection system data will be utilized and customized to manage specific activities and resources associated with the City's collection system including, but not limited to the following:

- Tracking and monitoring ongoing operation and maintenance activities
- Ensuring proper coordination between wastewater collection system maintenance work and other activities
- Establishing a more efficient and systematic approach planned maintenance activities that enables a more efficient use of staff resources
- Affecting inventory control enabling better spare parts forecasting to eliminate shortages and minimize existing inventory
- Tracking and monitoring work orders for specific system activities
- Eliminating paperwork and manual tracking activities, thus enabling staff to become more productive.

Currently, there are three software solutions in use within Public Works that provide functionality of CMMS. CIS is used by the Business Services Division to manage customer billing data, respond to service requests, and issue service orders. GBA is used by the Water Distribution Section to issue work orders and store historical work order information. Granite XP is used by the Wastewater Collections Section to assist in performing closed circuit television (CCTV) inspections and to generate CCTV inspection reports.

One important commonality between the three existing systems is that they all have the ability to integrate with a GIS. For this reason, it is recommended that the main integration between the three systems be accomplished at the database level, using the GIS as the common asset database. Once that integration is accomplished, integrations should be considered to synchronize work order processing between the three systems and to expand asset management systems beyond the Water Distribution Division.

# Computerized Maintenance Management System

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## 9.1 Activity Scheduling and Tracking

Scheduling and performance of maintenance and cleaning activities is currently performed by the Operations Manager and Wastewater Supervisor. Daily schedules are manually composed and delineate the type and location of work to be performed. Work is assigned and performed and reports summarizing daily progress are generated by maintenance crews and submitted to the Wastewater Collection Supervisor to track progress and status of wastewater collection facilities. Daily progress reports and work-related forms are filed at the water operations yard for future access and reference. A wall map of the City, that depicts the City's wastewater collection system, is highlighted daily by the maintenance crews to reflect the cleaning and CCTV inspection completed. The map serves to provide City maintenance crews with a comprehensive view of the progress of the preventive maintenance efforts..

## 9.2 Maintenance Data Management

In 2004, the City invested in GBA Master Series, a maintenance and asset management software that would be compatible with the City's GIS. The integration of the program was intended to organize, manage, and centralize its infrastructure data to allow City staff access to information pertaining to a particular system element (such as technical data, related work orders, photographs, and videos). The City also intended to utilize the GBA program to facilitate storage of inventory data and CCTV inspection data, and allow the automatic downloads of data from the CCTV inspection equipment to GIS to facilitate performing condition assessment of information captured with the CCTV equipment. The CCTV data storage and management process has been in place since October 2005 and includes transferring the recorded data onto CDs and storing the CDs for future reference as needed. Information relevant to the information on the CD is recorded in an Excel spreadsheet including the date, time and the pipeline televised.

The City has obtained an upgrade of the Granite XP software from Cues. This new version allows for additional storage capacity, software support; CCTV truck hardware upgrade, and wireless communication capability. This push was also made to ensure that the next version of Granite XP software could easily integrate with the ESRI platform.

## 9.3 Implementation of CMMS components

The City continues to work toward identification, integration, and utilization of a new CMMS to facilitate management of wastewater facilities and resources. Utilization of a versatile CMMS will allow staff to properly and efficiently organize, plan, and schedule the appropriate resources for routine preventive maintenance activities, coordinate and prioritize urgent and/or unique maintenance activities, and ensure uniformity and consistency in processing and tracking facility related information.

Concurrently with completing a comprehensive wastewater collection system survey, inventory, and the associated mapping, the City will identify and implement a CMMS to more fully support the management, operation, and maintenance efforts by the Wastewater Maintenance Section for the wastewater collection system. Ultimately, the proper management of wastewater facility maintenance and asset data will allow City staff to:

## Computerized Maintenance Management System

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- Understand the condition of the physical assets including replacement costs, lifecycle analysis, and current and future funding needs;
- Understand the implications of deferred Capital as it relates to measured conditions and strategic goals;
- Develop a basis for the funding needs and allocations;
- Produce consistent reports designed to deliver accurate planning data in presentable form; and
- Approve and implement Capital planning activities based on set priorities that are in line with the City's strategic goals.

Additional benefits of implementing a comprehensive and versatile CMMS facilitates tracking and data management of specific type of work performed and the resources necessary to support and ensure the proper operation of the City's wastewater facilities including, but not limited to:

- Preventive Maintenance efforts (track progress and dates)
- CCTV efforts (tracked by sewer segments)
- HFMS by segment with cleaning interval
- Repairs (to track materials, duration, etc.)
- GIS updates
- Chemical root treatment (specific locations and dates)
- Manhole spraying (MH ID and dates)

By documenting the progress of the activities listed above, the City will establish a benchmark from which future work orders can be issued. For instance, entering the chemical root treatment locations and dates for treatment, staff can monitor the progress and effectiveness of the program. Plus, the information can trigger alerts to schedule the next round of chemical root treatment, to avoid missing a cycle or the funding of the upcoming year's activities.



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# Chapter 10

## Equipment and Replacement Part Inventories

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The Wastewater Maintenance Section maintains an inventory of vehicles and replacement parts. The inventory of vehicles includes the vehicle type currently utilized to perform the necessary operation and maintenance of the City's wastewater collection system. Table 10-1 includes a summary of vehicles available to maintenance staff. Table 10-2 includes a summary of the inventory of replacement pipe which ranges from 4- to 12-inch in diameter and maintained on site.

**Table 10-1  
Wastewater Section Vehicle List**

| Unit Type | Unit Number | Unit Year | Make      | Equipment Class           | License Number |
|-----------|-------------|-----------|-----------|---------------------------|----------------|
| Vactor    | 27002       | 1991      | Volvo     | Combination Unit          | 292016         |
| Vactor    | 27013       | 2001      | Sterling  | Combination Unit          | 109694         |
| Vactor    | 27021       | 2013      | Peterbilt | Combination Unit          |                |
| Utility   | 27014       | 2002      | GMC       | HD-2500 Utility Truck     | 1129108        |
| Utility   | 27015       | 2004      | GMC       | HD-2500 Utility Truck     | 1172390        |
| Utility   | 27017       | 2006      | Chevrolet | HD-3500 Utility Truck     | No Plates      |
| Dump      | 27006       | 1996      | GMC       | HD-3500 Lowbed            | 36323          |
| Trailer   | 27011       | 2001      | Sreco     | Mechanical Rodder-Trailer | 952696         |
| CCTV      | 27016       | 2004      | Ford      | F-450 CCTV Sewer Van      | 1195013        |
| Utility   | 27020       | 2008      | Chevrolet | Service Truck             | 1258430        |

**Table 10-2  
Replacement Pipe Inventory List**

| Diameter  | Total Pipe Length (ft) | Repair Couplings | 1/4 Bends | 1/8 Bends | 1/16 Bends |
|-----------|------------------------|------------------|-----------|-----------|------------|
| 4 - inch  | 90'                    | 60               | 4         | 4         | 4          |
| 6 - inch  | 90'                    | 28               | 3         | 3         | 4          |
| 8 - inch  | 108'                   | 38               | 3         | 7         | 3          |
| 10 - inch | 42'                    | 16               | -         | -         | -          |
| 12 - inch | 24'                    | 16               | -         | -         | -          |

## Equipment and Replacement Part Inventories

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Table 10-3 includes a summary of the repair fittings maintained in the City's inventory in the City Yard.

**Table 10-3  
Replacement Fitting Inventory List**

| Size  | Tees | Wyes |
|-------|------|------|
| 4 X 4 | -    | 1    |
| 6 X 4 | 3    | 3    |
| 8 X 4 | 2    | 1    |

Summarized in Table 10-4 are the parts maintained for potential manholes repairs.

**Table 10-4  
Replacement Manhole Inventory List**

| Size      | Manhole Lids / Rings | Grade Rings |
|-----------|----------------------|-------------|
| 24 - inch | 7                    | 5           |
| 25 - inch | 7                    | -           |
| 26 - inch | 2                    | -           |
| 30 - inch | -                    | 5           |

Additionally, the City's inventory includes seven (7) 4 -inch cleanout lids.

The vehicles and replacement parts are made readily accessible to maintenance staff. The replacement parts maintained in the City Yard are for the specific types of repairs the Wastewater Maintenance staff performs. The Water Distribution Section can no longer participate in repairs because they are not vaccinated for repairs. For implementation of repairs that extend beyond the City's internal resource capabilities, the City retains the services of professional contractors and its own Fleet Division repair shop.

Routine assessment of the resources ensures that City maintenance staff is adequately prepared to perform necessary system repairs. The inventory should include adequate sizes and types of critical repair and replacement parts. The City should also develop and maintain a resource list of contractors and vendors who stock the specific types of supplies used by the City and that are available for emergency and short notice deliveries.



# Chapter 11

## Training Program

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The City staff currently participates in the California Water Environment Association (CWEA) certification program for Collection System Maintenance. The City also provides on-going in house job skills and training for its staff and participates in local and regional training events.

Training programs are developed to ensure that personnel are well-trained to implement all applicable and necessary components of City established programs to successfully achieve established strategic goals. Typically, training programs specify and include the curriculum required prior to permitting an employee to undertake specific work assignments or tasks. Prior to performing any work on City facilities, City Wastewater Maintenance staff is trained on the existence and the provisions of the wastewater operations and maintenance policies, procedures, safety policies, and the equipment used. Additionally, Wastewater Maintenance staff is required to receive Collection System Maintenance training and certification through CWEA. Training for operation of City equipment includes primarily “on-the-job” training in conjunction with weekly “tailgate” meetings to discuss safety issues. Staff also receives training through workshops in collection system maintenance sponsored by outside agencies or organizations.

The City’s instructional program for initial and refresher training should incorporate curriculum that includes information specific to the level of knowledge, commensurate with duties and the overall functions of the facilities included in the City’s infrastructure. A training program specifically for the management and operation of the City’s wastewater collection system should include, but not be limited to, the following information:

- Purpose and procedures for proper implementation of the Inspection and Assessment Program including related activities, equipment, and inspection and assessment criteria
- Procedures for tracking all training activities
- Proper operation and maintenance of equipment utilized for performing job related duties
- Repair and rehabilitation program and available resources
- Importance of communication between all affected City staff including, but not limited to, staff within Water Operations and Engineering Sections
- Importance of following all safety policies and procedures
- Procedures for tracking and documenting all job related information
- Procedures and specific tasks related to effective and efficient execution of SSO Emergency Response
- Preventative Maintenance Program and related activities
- Spill Response and Spill Reporting

All appropriate staff is required to participate in regularly scheduled training sessions, referred to as Tailgate Meetings, to assist staff in awareness of their responsibilities and executing their

## Training Program

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duties. These training sessions should be organized to include the latest City policies and procedures as well as other relative materials. Training sessions should incorporate hands-on field demonstrations to insure the preparedness of all personnel to all anticipated situations. Field demonstrations will be performed to test equipment, response time, training effectiveness, resources, and manpower capabilities.

Additional instructional material includes the City's approved Sewer System Management Plan (SSMP) and the SSOERP. It serves as a mode of instructing staff on the SSMP, SSOs, and all the required documentation. Training and event participation is documented and maintained by either the Wastewater Supervisor. As necessary and determined by appropriate managerial staff, training programs may also include supplemental technical training required to efficiently and safely perform specific job related duties. Currently, minimal certification is required. However, additional certification requirements may be implemented in the future if deemed necessary by governing authorities.

As mentioned before, an additional goal of wastewater collection staff is to expose the street crews to the SSOERP. That is, should they be the first ones at the spill site, they may be able to contain the spill and limit its damage. At the same time, they can also contact and request the appropriate wastewater staff to the location and extent of the spill.

## **Chapter 12**

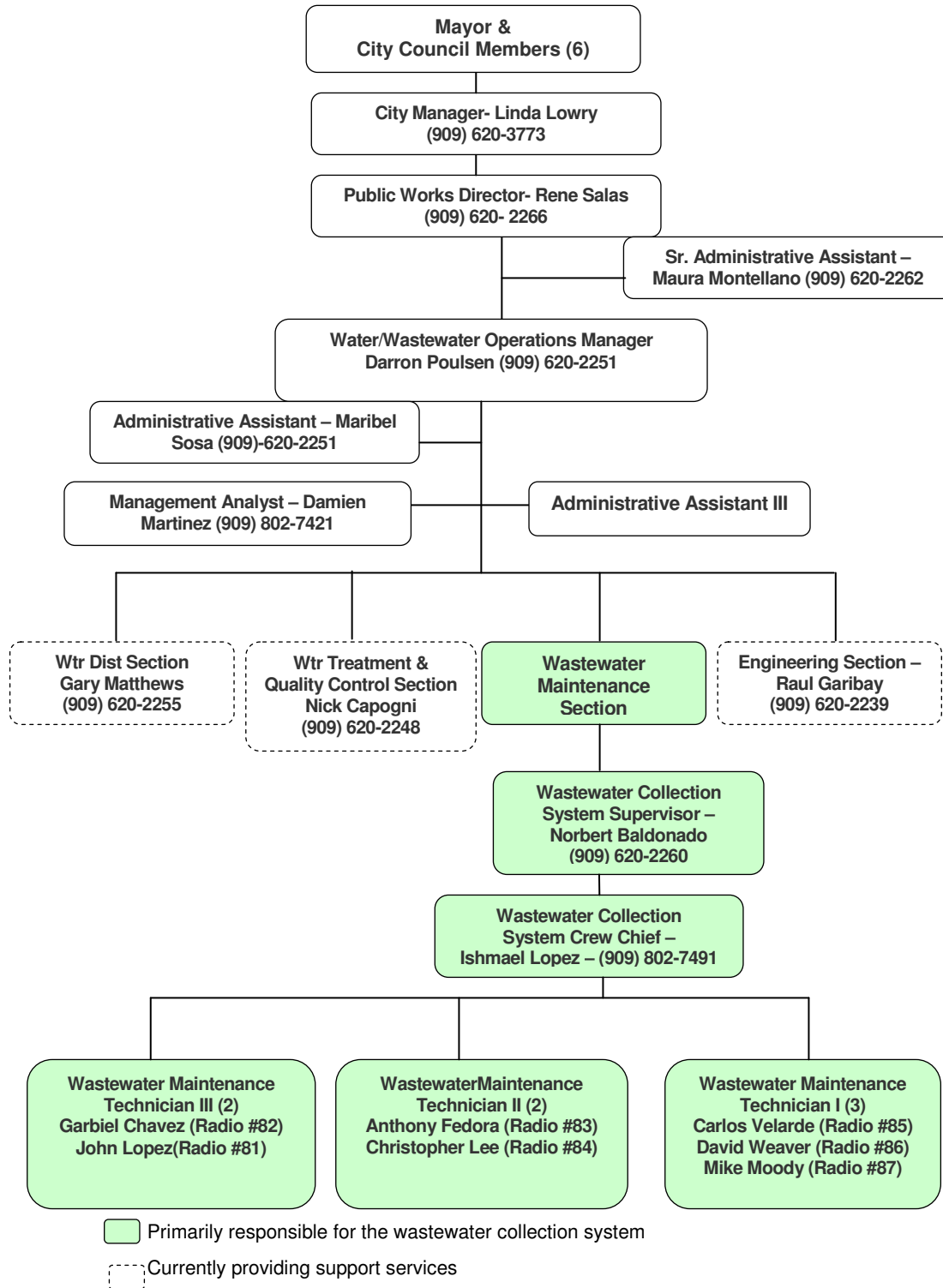
### **Organization and Staffing**

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The City's Wastewater Maintenance Section staff is responsible for the operation and maintenance of the wastewater collection system and performs the regularly scheduled preventative maintenance and intermittent televising of select locations. The current staff available to implement the various elements of the City's operations and maintenance activities includes the nine (9) people within the Wastewater Maintenance Section shown in the organizational chart in Figure 12-1.

# Organization and Staffing

**Figure 12-1  
Existing Organizational Structure**



**Table 12-1  
Summary of Estimated Staff Hours**

| <b>Effort for Elements of WDRs</b>         | <b>Estimated Hours</b> |
|--|------------------------|
| FCO (FOG Compliance Officer)               |                        |
| One Time                                   | 1325                   |
| Annually                                   | 2134                   |
| Crew (wastewater operations crew member)   |                        |
| One Time                                   | 400                    |
| Annually                                   | 10348                  |
| Crew Chief                                 |                        |
| Annually                                   | 940                    |
| Supervisor                                 |                        |
| Annually                                   | 1576                   |
| AA/T (Administrative Assistant/Technician) |                        |
| One Time                                   | 960                    |
| Annually                                   | 344                    |
| Engineer                                   |                        |
| One Time                                   | 100                    |
| Annually                                   | 670                    |
| Bi-Annually                                | 60                     |
| OTHER (Consultant)                         | 0                      |
| Bi-Annually                                | 200                    |
| <b>TOTAL ESTIMATED HOURS</b>               | <b>19,057</b>          |

As noted in Table 12-1, one new position, a FOG Compliance Officer, is recommended. Additional support for the ongoing implementation of the WDRs includes administrative assistance, engineering expertise, and some consultant support.

As the individual programs and the associated tasks are phased into the City's current procedures, continual monitoring and evaluation of the programs should be performed in order to facilitate further refinement of the staff resources necessary for each required task. Additionally, City staff should consider the overall time to complete WDR program phasing and implementation.



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**Attachment A**  
**Recommended Observation Codes**

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## Recommended Observation Codes

### DEFECT CODES FOR CITY OF POMONA

| Code | Severity | Observation             | Maintenance Points | Structural Points | Definitions  | Standard Comments  | Joints |
|------|----------|-------------------------|--------------------|-------------------|--|--|--------|
| ST   | A        | Start Inspection        | 0                  | 0                 | Use at the start of all inspections  | "Re-Inspection after cleaning", Note if depth of flow is 1/3 pipe or more, note if pipe material from manhole is different from line   |        |
| FH   | A        | Finish Inspection       | 0                  | 0                 | Use at the end of all inspections  | Note the cause for ending the observation if you are not in the manhole, e.g. "camera blocked", "Overlap Point", "Clean Out", or "Dead End". If you are ending a reinspection use "End Re-Inspection". |        |
| MH   | A        | Manhole                 | 0                  | 0                 | Upstream/Downstream manhole  | Manhole number   |        |
| MB   | A        | Manhole Description     | 0                  | 0                 | Buried / paved over manholes shown on plans, manholes not on plans   | MH # & Note if it is buried or paved over; Note if it is an inside, outside or direct drop   |        |
| SA   | A        | Inspection Suspended    | 75                 | 100               | Impassable blockage, note apparent cause   | Precede Observation with a General Observation Noting the apparent cause, e.g. by roots  |        |
| CUB  | A        | Camera Underwater Begin | 50                 | 50                | Whenever the camera lens is partially or fully submerged, obstructing the view                             | Note if apparent pipe sag begins   |        |
| CUE  | A        | Camera Underwater End   | 50                 | 50                | Whenever the camera lens is returned to a normal state   | Note if apparent pipe sag ends   |        |
| DND  | A        | Dead End                | 0                  | 0                 | Used when camera reaches a dead end main   | Note if "Plug" & condition   |        |
| CO   | A        | Cleanout                | 0                  | 0                 | Use when the camera reaches a cleanout   | Call out Clean out number  |        |
| MC   | A        | Material Change         | 0                  | 0                 | Any change of pipe material  | "Transition to (new pipe material)"  |        |
| DC   | A        | Diameter Change         | 0                  | 50                | Any change of pipe size  | "Transition to (new pipe size & material)"   |        |
| SR   | A        | Spot Repair             | 0                  | 50                | Existing repair  | "Spot Repair at (footage)"   |        |
| LL   | A        | Bend in Pipe Left       | 0                  | 50                | Any bend in pipe to the left   |  |        |
| LR   | A        | Bend in Pipe Right      | 0                  | 50                | Any bend in pipe to the right  |  |        |
| LD   | A        | Bend in Pipe Down       | 0                  | 50                | Any bend in pipe down  |  |        |
| LU   | A        | Bend in Pipe Up         | 0                  | 50                | Any bend in pipe up  |  |        |
| GE   | A        | Gasket Exposed          | 0                  | 50                | Gasket visible   |  |        |
| RS   | A        | Restricted Channel      | 0                  | 0                 | Use when the camera is unable to access a channel  |  |        |
| X    | A        | Collapsed Pipe          | 0                  | 700               | Use if a section of the pipe wall has fallen in and the structural integrity of pipe has been compromised. | Note the approximate size and give a description. Note footage.  |        |

| Code | Severity | Observation                | Maintenance Points | Structural Points | Definitions   | Standard Comments  | Joints                                  |
|------|----------|----------------------------|--------------------|-------------------|---|--|---|
| V    | A        | Vermin                     | 0                  | 0                 | Any animal, rodent, or insect infestation inside the pipe/manhole                                   | Type of rodent / vermin/ bug   |   |
| GO   | A        | General Observation        | 0                  | 0                 | General observation   | If no opposite direction inspection done for an incomplete inspection, note the reason why. Note defects in service connections. |   |
| R    | B        | Roots, Light               | 25                 | 0                 | fine roots, root fingers following the wall of the pipe covering not more than 10% of the pipe wall | Note if roots are coming from a crack, hole, joint or around a lateral. Note approximate location (e.g. 12 o'clock)              |   |
|      | C        | Roots, Moderate            | 75                 | 50                | Fine to medium roots covering 10 to 20% of the pipe wall  |  |   |
|      | D        | Roots, Heavy               | 150                | 50                | Fine to heavy roots blocking 20% to 50% of pipe - a carpet of roots following the walls of the pipe |  |   |
|      | E        | Roots, Critical            | 200                | 50                | Medium to heavy roots; tap roots visible; more than 50% of pipe blocked by roots; impassable        |  |   |
| I    | B        | Infiltration, Light        | 0                  | 50                | Seeping   | Note location of crack (e.g. 12 o'clock)   |   |
|      | C        | Infiltration, Moderate     | 0                  | 75                | Dripping  |  |   |
|      | D        | Infiltration, Heavy        | 0                  | 150               | Constant stream   |  |   |
|      | E        | Infiltration, Critical     | 0                  | 200               | Gushing water   |  |   |
| E    | B        | Mineral Deposits, Light    | 0                  | 50                | Minimal (Possible indication of Infiltration)   |  |   |
|      | C        | Mineral Deposits, Moderate | 0                  | 75                | Less than 10% of ID thick   |  |   |
|      | D        | Mineral Deposits, Heavy    | 0                  | 150               | Greater than 10% of ID thick  |  |   |
|      | E        | Mineral Deposits, Critical | 0                  | 250               | Impassable, heavy mineral deposits  |  |   |
| CC   | B        | Circular Crack, Small      | 0                  | 75                | Very small hairline crack(s)  | Note if they are spiral cracks. Note location of crack (Top/bottom of pipe from 12 to 6 o'clock)                                 | Cracks at joints are within 4" of joint |
|      | C        | Circular Crack, Moderate   | 0                  | 100               | Hairline less than 50% of circumference   |  |   |
|      | D        | Circular Crack, Large      | 0                  | 175               | Less than 1/8" open, or hairline greater than 50% of circumference                                  |  |   |
|      | E        | Circular Crack, Critical   | 0                  | 250               | 1/8" or greater, open   |  |   |

| Code | Severity | Observation                   | Maintenance Points | Structural Points | Definitions  | Standard Comments   | Joints  |
|------|----------|-------------------------------|--------------------|-------------------|--|---|---|
| CL   | B        | Crack -Longitudinal, Small    | 0                  | 50                | Very small hairline crack(s)   | If the crack extends past one section of pipe, note the end footage, e.g. to 105'. For continuing cracks, note every 3 pipe lengths with a "continuing" note. Note location of crack (5 o'clock)                        | Cracks at joints are within 4" of joint   |
|      | C        | Crack -Longitudinal, Moderate | 0                  | 100               | Hairline less than 1 section of pipe   |   |   |
|      | D        | Crack -Longitudinal, Large    | 0                  | 175               | Less $\leq$ 1/8" wide or hairline $>$ 50% of ID in length  |   |   |
|      | E        | Crack -Longitudinal, Critical | 0                  | 250               | 1/8" or greater, open  |   |   |
| CM   | B        | Cracks -Multiple, Small       | 0                  | 75                | Very small hairline crack(s)   | Note location of crack (top or bottom of pipe)  | Cracks at joints are within 4" of joint   |
|      | C        | Cracks -Multiple, Moderate    | 0                  | 150               | Hairline cracks in multiple directions, less than 1 section of pipe  |   |   |
|      | D        | Cracks -Multiple, Large       | 0                  | 200               | Less than 1/8" open, or hairline greater than 1 section of pipe, in multiple directions                        |   |   |
|      | E        | Cracks -Multiple, Critical    | 0                  | 300               | Cracks in multiple directions, 1/8" or greater, open   |   |   |
| B    | B        | Broken Pipe, Small            | 0                  | 200               | Connecting cracks, no displacement   | Note appearance of break and approximate location of pipe (5 o'clock)   | Within 4" of joint, crescent crack with no displacement, or displaced / gone less than 1 hr, within bell, no dirt         |
|      | C        | Broken Pipe, Moderate         | 0                  | 250               | Connecting cracks, some displacement (less than 1/4")  |   | Within 4" of joint, crescent crack with displacement 1 - 3 hrs, or displaced / gone 1- 2hrs, within bell, no dirt         |
|      | D        | Broken Pipe, Large            | 0                  | 300               | Connecting cracks, displacement greater than 1/4"  |   | Within 4" of joint, crescent crack with displacement $>$ 3hrs, or displaced / gone $>$ 2hrs, within bell, no dirt showing |
|      | E        | Broken Pipe, Critical         | 0                  | 500               | Collapse pipe, impassable  |   |   |
| H    | B        | Hole in Pipe, Small           | 0                  | 250               | 15" pipe or less: $<$ 1" dia. of hole<br>$>$ 15" pipe: $<$ 2" dia. of hole*                                    | * If a hole is below the waterline it moves up to the next severity - Note the approximate size of the hole, e.g. 1.5", Note if there is an apparent void. Note approximate location in pipe (top/bottom or 12 o'clock) |   |
|      | C        | Hole in Pipe, Moderate        | 0                  | 300               | 15" pipe or less: 1" to 3" dia., pipe is sound, no void<br>$>$ 15" pipe: 2" to 4" dia., pipe is sound, no void |   |   |
|      | D        | Hole in Pipe, Large           | 0                  | 400               | 15" pipe or less: 1" to 3" dia., void visible<br>$>$ 15" pipe: 2" to 4" dia., void visible                     |   |   |
|      | E        | Hole in Pipe, Critical        | 0                  | 500               | Holes are bigger than severity 4; potential for collapse   |   |   |
| DE   | B        | Debris, Light                 | 50                 | 0                 | Sporadic deposits (no rocks)   | Note the type of debris, e.g. silt, sand, rocks, sludge, etc. For continuing debris, enter observation every 25'  |   |
|      | C        | Debris, Moderate              | 75                 | 0                 | 10% of ID or less, rough debris (no rocks)   |   |   |
|      | D        | Debris, Heavy                 | 150                | 0                 | 10-25% of ID, rough debris   |   |   |

| Code | Severity | Observation               | Maintenance Points | Structural Points | Definitions   | Standard Comments  | Joints |
|------|----------|---------------------------|--------------------|-------------------|---|--|--------|
|      | E        | Debris, Critical          | 200                | 0                 | Greater than 25% of ID or impassable, rough debris and/or rocks |  |        |
| DEG  | B        | Debris -Grease, Light     | 50                 | 0                 | Less than 1/4" thick  | Note percentage of pipe (similar to roots), for continuing grease, enter observation every 25' |        |
|      | C        | Debris -Grease, Moderate  | 75                 | 0                 | Slight indication 1/4"-1/2"                                     |  |        |
|      | D        | Debris -Grease, Heavy     | 150                | 0                 | 1/2" to 2" thick  |  |        |
|      | E        | Debris -Grease, Critical  | 225                | 0                 | Greater than 2" thick   |  |        |
| LC   | B        | Lining Defect, Light      | 0                  | 50                | Wrinkles, bubbles, dimples                                      | Note the defect  |        |
|      | C        | Lining Defect, Moderate   | 0                  | 100               | Tear, up to 25% flow restriction                                |  |        |
|      | D        | Lining Defect, Heavy      | 0                  | 250               | Greater than 25% flow restriction                               |  |        |
|      | E        | Lining Defect, Critical   | 0                  | 300               | Missing liner   |  |        |
| SS   | B        | Erosion of CP, Light      | 0                  | 100               | Rough walls   | Use only with concrete pipe  |        |
|      | C        | Erosion of CP, Moderate   | 0                  | 200               | Exposed aggregate   |  |        |
|      | D        | Erosion of CP, Heavy      | 0                  | 300               | Exposed rebar   |  |        |
|      | E        | Erosion of CP, Critical   | 0                  | 500               | Missing concrete  |  |        |
| CO   | B        | Corrosion of CI, Light    | 0                  | 100               | Minimal   | Use only with Metal Pipe   |        |
|      | C        | Corrosion of CI, Moderate | 0                  | 200               | Heavy tuberculation   |  |        |
|      | D        | Corrosion of CI, Heavy    | 0                  | 300               | Moderate tuberculation  |  |        |
|      | E        | Corrosion of CI, Critical | 0                  | 500               | Impassable; excessive tuberculation                             |  |        |
| SJ   | B        | Separated Joint, Light    | 0                  | 50                | Gasket visible  |  |        |
|      | C        | Separated Joint, Moderate | 0                  | 100               | Bell visible  |  |        |
|      | D        | Separated Joint, Heavy    | 0                  | 200               | Dirt visible at top   |  |        |
|      | E        | Separated Joint, Critical | 0                  | 400               | Dirt visible at invert  |  |        |
| DJ   | B        | Displaced Joint, Light    | 0                  | 50                | Pipe offset up to 1/2 the pipe thickness                        |  |        |
|      | C        | Displaced Joint, Moderate | 0                  | 100               | Pipe offset from 1/2 to the full pipe thickness                 |  |        |
|      | D        | Displaced Joint, Heavy    | 0                  | 200               | Pipe offset from full to 1 1/2 times thickness of pipe          |  |        |

| Code | Severity | Observation                   | Maintenance Points | Structural Points | Definitions  | Standard Comments                             | Joints                                    |
|------|----------|-------------------------------|--------------------|-------------------|--|---|---|
|      | E        | Displaced Joint, Critical     | 0                  | 300               | Pipe offset greater than 1 1/2 times thickness of pipe         |   |   |
| CN   | A        | Service Connection            | 0                  | 0                 | All factory lateral 'Y' or 'T' service connections             |   |   |
| CB   | A        | Break in Connection           | 0                  | 50                | All laterals connected into a hole broken or cut into the main | Note if it is "broken in" rather than cut     |   |
| CXC  | B        | Connection w/ Small defect    | 0                  | 50                | Light roots and/or hairline cracks                             | Use after CN or CB - Note the defect          | Use for lateral defects, not pipe defects |
|      | C        | Connection w/ Moderate defect | 25                 | 100               | Medium roots and/or medium cracks                              |   |   |
|      | D        | Connection w/ Large defect    | 50                 | 150               | Heavy roots and/or open cracks                                 |   |   |
|      | E        | Connection w/ Critical defect | 75                 | 200               | roots impassable and/or dirt visible                           |   |   |
| CNI  | B        | Intruding Lateral, Small      | 0                  | 75                | Less than 1"   | Use after CN or CB - Note how far it intrudes |   |
|      | C        | Intruding Lateral, Moderate   | 0                  | 150               | 1"to 2"  |   |   |
|      | D        | Intruding Lateral, Heavy      | 0                  | 250               | Greater than 2"  |   |   |
|      | E        | Intruding Lateral, Critical   | 0                  | 300               | Lateral is impassable  |   |   |
| CR   | B        | Roots in Lateral, Light       | 20                 | 0                 | Small Roots in / from lateral                                  |   |   |
|      | C        | Roots in Lateral, Moderate    | 50                 | 0                 | Medium roots in / from lateral                                 |   |   |
|      | D        | Roots in Lateral, Heavy       | 75                 | 50                | Heavy roots in / from lateral                                  |   |   |
|      | E        | Roots in Lateral, Critical    | 150                | 50                | Lateral full of roots  |   |   |
| CP   | A        | Plugged Connection            | 0                  | 0                 | Lateral not in use   | "Plugged" "Full of Rocks", etc.               |   |









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**Attachment B**  
**Recommended Manhole Inspection Form**

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# CITY OF POMONA MANHOLE CONDITION ASSESSMENT FORM

Quadrant #: \_\_\_\_\_ Inspection Firm: \_\_\_\_\_ MH ID No.: \_\_\_\_\_  
 Inspection Date: \_\_\_\_\_ Inspection Time: \_\_\_\_\_ Field Book Page: \_\_\_\_\_  
 Dispatch: \_\_\_\_\_ Inspection Crew: \_\_\_\_\_ Street: \_\_\_\_\_  
 Dispatch Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

| DEFECT   | BROKEN               | CORROSION            | ROOTS                | I / I CODE           | ATMOSPHERE                            |
|--|----------------------|----------------------|----------------------|----------------------|---------------------------------------|
| Cover  | <input type="text"/> | <input type="text"/> |                      |                      |                                       |
| Frame  | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      | Note: All measurements at MH bottom.  |
| Frame Seal   | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      |                                       |
| Grade Ring   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | OXYGEN <input type="text"/> %         |
| Riser  | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | LEL <input type="text"/> %            |
| Cone   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | H2S <input type="text"/> PPM          |
| Wall   | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | CO <input type="text"/> PPM           |
| Bench  | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      |                                       |
| Trough   | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      |                                       |
| SEVERITY CODE: 1) MILE: <25% 2) MODERATE: 25-50% 3) SEVERE: >50% |                      |                      |                      |                      | I / I CODE: 1) INFLOW 2) INFILTRATION |

| OBSERVATION          | CODE NO.   | CODE   |
|----------------------|--|--|
| Access:              | <input type="text"/>                               | 1) DRIVE, PAVED 2) DRIVE, UNPAVED 3) DRIVEWALK <30' 4) DRIVEWALK >30'<br>5) NO MAINT. ACCESS, EASY WALK 6) NO MAINT. ACCESS, DIFFICULT WALK<br>7) ON MAINT. ACCESS, EASY WALK, CONTACT PROPERTY OWNER<br>8) NO MAINT. ACCESS, DIFFICULT WALK, CONTACT PROPERTY OWNER |
| Inspection Type:     | <input type="text"/>                               | 1) INTERNAL 2) SURFACE 3) NOT INSPECTED 4) BURIED 5) NOT FOUND   |
| Structure Type:      | <input type="text"/>                               | 1) STND 2) CLN OUT 3) IN DROP 4) OUT DROP 5) ROCK TRAP 6) FILLED IN 7) TEE 8) JUNCTION   |
| Location:            | <input type="text"/>                               | 1) STREET 2) ALLEY 3) SIDEWALK 4) DRIVEWAY 5) PARKWAY 6) YARD 7) PARKING LOT<br>8) STORM DITCH 9) CREEK BED 10) OPEN SPACE   |
| Surface Type:        | <input type="text"/>                               | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) LANDSCAPING 5) NATIVE VEGETATION   |
| Cover:               | Type: <input type="text"/>                         | 1) PICK 2) CONCEALED PICK 3) GASKETED 4) VENTED 5) STORM 6) 5/8" ALLEN BOLT<br>7) 3/4" ALLEN BOLT 8) PLASTIC 5 BOLT 9) ALFALFA BOLT  |
|                      | Fit: <input type="text"/>                          | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING   |
|                      | Seal: <input type="text"/>                         | 1) NONE 2) GASKET 3) SILICONE  |
|                      | Securing: <input type="text"/>                     | 1) NONE 2) STRAPPING BAR 3) ANGLE IRONS 4) 5/8" ALLEN BOLT 5) 3/4" ALLEN BOLT 6) 5 POINT BOLT<br>7) ALFALFA BOLT 8) 6 POINT BOLT 9) BURIED 10) ASPHALT CAP 11) CONCRETE CAP  |
|                      | Size: <input type="text"/>                         | DIAMETER IN INCHES   |
| Frame:               | Offset: <input type="text"/>                       | 1) NO 2) YES   |
| Grade Ring or Riser: | Type: <input type="text"/>                         | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) PLASTIC 7) MORTAR 8) LINED   |
|                      | Height (in): <input type="text"/>                  | IF > 18" ADD COMMENT   |
|                      | Mn. Dia (in): <input type="text"/>                 | IF < 36" ADD COMMENT   |
|                      | Comment: <input style="width: 100%;" type="text"/> |  |
| Cone:                | Type: <input type="text"/>                         | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) PURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED  |
|                      | Shape: <input type="text"/>                        | 1) CONCENTRIC 2) ECCENTRIC 3) FLAT TOP   |
| Wall:                | Type: <input type="text"/>                         | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED   |
|                      | Diameter (in): <input type="text"/>                |  |
|                      | Height (in): <input type="text"/>                  | IF <= 36" ADD COMMENT (Calculated in field)  |
|                      | Comment: <input style="width: 100%;" type="text"/> |  |
| Bench:               | Type: <input type="text"/>                         | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) LINED  |
| Trough Type:         | <input type="text"/>                               | 1) NONE 2) PRECAST 3) POURED 4) VCP 5) PVC 6) BRICK  |
| Steps:               | Type: <input type="text"/>                         | 1) NONE 2) BAR 3) CAST IRON 4) PLASTIC 5) PLASTIC COATED STEEL   |
|                      | Condition: <input type="text"/>                    | 1) GOOD 2) CORRODED 3) MIS-ALIGNED 4) BROKEN 5) MISSING 6) UNSAFE  |
| Drop Manhole:        | <input type="text"/>                               | 1) NO 2) YES   |
| MH Insp Depth (ft):  | <input type="text"/>                               | RIM TO BENCH   |
| Surcharge:           | Ht. Above Bench <input type="text"/>               | 0) NONE, IF SURCHARGE EVIDENT, RECORD DEPTH OF SURCHARGE (INCHES)  |







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**Attachment C**  
**Estimated Level of Effort for WDRs**

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**Omitted**





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**Attachment D**  
**GIS Change Form**

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# **Appendix E**

## **FOG Characterization Study**

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# **Appendix D**

## **Spill Emergency Response Plan**

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# **CITY OF POMONA SPILL EMERGENCY RESPONSE PLAN**

Revised May 2023

Prepared For:



**City of Pomona  
148 North Huntington Street  
Pomona, California 91768**

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# Chapter 1

## Introduction

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Because Sanitary Sewer Spills of various volumes occur from time to time in spite of concerted prevention efforts, the City of Pomona (City) has prepared this Spill Emergency Response Plan (SERP). Spills may occur from blocked sewers, pipe failures, mechanical malfunctions, and other natural or man-made causes. City crews are constantly on alert and ready to respond upon notification and confirmation of a spill.

This SERP establishes the formal procedures for City staff to respond to, contain, correct, and clean up spills, and it is intended to minimize the effects of spills on the environment while protecting the public's health and safety. Chapter 1 provides an overview of the City's wastewater collection system, the purpose and goals of the SERP, the regulatory authority requiring this plan, an overview of this document's organization, and definitions of terms contained in this document.

### 1.1 Wastewater Collection System Overview

The City provides sewer service throughout the City and to a limited area outside the City limits. The City's wastewater collection system consists of approximately 317 miles of gravity sewer, four (4) pump stations, 1.4 miles of force mains, 6,360 manholes, and two (2) siphons. Sewage collected by the City's wastewater collection system is conveyed to the Pomona Water Reclamation Plant (PWRP) for treatment and disposal under the authority of the Los Angeles County Sanitation Districts (LACSD). The four pump stations are owned, maintained, and operated by the LACSD under the terms of a new agreement located in Appendix H, *Sewage Lift and Force Main Transfer*.

### 1.2 Purpose and Goals

The City recognizes the importance of protecting the health and safety of the public as well as the environment by preventing sewer flows from reaching surface waters and waters of the United States. The City also understands the necessity to implement procedures to minimize the impact of a spill if one were to occur and comply with the requirements of state regulations. The primary goal in establishing an official SERP is to ensure that City staff responds appropriately and efficiently to all known spills immediately.

The objectives of the SERP can be summarized as:

- Protect public health and safety, and the environment;
- Minimize the effects of spills;
- Satisfy regulatory and discharge permit conditions;
- Notify appropriate regulatory agencies and other affected entities;

- Protect private and public property;
- Protect City personnel; and
- Protect all City owned assets.

This SERP is intended to supplement and be consistent with existing emergency plans and standard operating procedures currently implemented by the City. The overall plan will facilitate coordination and mobilization of necessary facilities and personnel in an organized and efficient manner when responding to a spill.

### 1.3 Organization of this SERP

This document provides the necessary guidelines for City staff to respond to a spill event. This SERP contains the following elements:

- Introduction
- Spill Emergency Response Procedures
- Public Advisory Of Sewage Contamination Procedures
- Spill Reporting Requirements
- Training Requirements
- SERP Updating Requirements
- Various Attachments

### 1.4 Regulatory Requirements

The following regulatory requirements establish the impetus for the City to develop and follow procedures to minimize the potential and impact of spill occurrences.

**California Water Code Section 13271, California Code of Regulations:** Section 13271 of the California Water Code, Title 23 of the California Code of Regulations, prohibits the discharge of sewage and hazardous material into the waters of the State and requires the proper notification of authorized agencies in the event of a spill. Entities which do not properly follow the requirements of this section may be found guilty of a misdemeanor and punished by fine, imprisonment, or both.

**California Waste Discharge Requirements:** On December 6, 2023, the State Water Resources Control Board adopted the Statewide General Waste Discharge Requirements (WDRs) for Sanitary Sewer Systems, Order No. WQ 2022-0103-DWQ, and update to Order No. 2006-0003. The WDRs are applicable to all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to publicly owned treatment facilities in the state of California. Specifically, the WDRs, as part of the Monitoring and Reporting Program and Order No. WQ 2022-0103-DWQ, require that the City

update monitoring, record keeping, reporting, and public notification requirements for spills, including on-line reporting requirements through the State's California Integrated Water Quality System (CIWQS) web-site. The WDRs require that the City continue on-line reporting established January 2, 2007 and that the City prepares an updated Emergency Response Plan by June 5, 2023. This SERP fulfills the second requirement and documents the City's efforts to comply with the on-line reporting.

**Clean Water Act, Section 1251 of Chapter 33 of the United States Code:** In 1972, the federal Congress enacted the Federal Water Pollution Control Act, commonly known as the Clean Water Act (CWA). The CWA prohibits the discharge of pollutants, including sewage, into public waters of the United States. The federal government has the authority to enforce compliance with the CWA via specific permits, such as National Pollutant Discharge Elimination System (NPDES) permits, as well as court action such as administrative orders and consent decrees. The City of Pomona is not currently subject to an NPDES permit or any legal action initiated by the federal government.

### 1.5 Definition of Terms

**Category 1 Spill:** A spill of sewage of **any volume** from or caused by an enrollee's sanitary sewer system that results in a discharge to:

- A surface water including a surface water body that contains no flow or volume of water; or
- A drainage conveyance system that discharges to surface waters when the sewage is **not fully captured** and returned to the sanitary sewer system or disposed of properly.
- Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility (e.g., infiltration pit, percolation pond).
- A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water.

**Category 2 Spill:** A discharge of sewage:

- That is **1,000 gallons** or greater.
- That **does not** discharge to a surface water.
- That enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.

**Category 3 Spill:** A discharge of sewage:

- That is equal to or greater than **50 gallons** and less than **1,000 gallons**.
- That **does not** discharge to a surface water.
- That enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.

**Category 4 Spill:** A discharge of sewage:

- That is less than **50 gallons**.
- That **does not** reach a surface water.
- That enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.

**First Responder:** The City's Wastewater Maintenance Section staff person who is initially notified of a possible spill and arrives first at the reported location of the possible spill.

**Private Lateral Sewage Discharge:** Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

**Public Waters:** Any body of water such as the ocean, bay, lake, pond, river, stream, or creek where there is the potential for human contact as defined by the County Department of Environmental Health.

**Spill:** A spill is any overflow, spill, release, discharge, or diversion of sewage from a wastewater collection system. Spills include:

- Release of untreated or partially treated sewage that reach waters of the United States;
- Release of untreated or partially treated sewage that do not reach waters of the United States; and
- Sewage backups into buildings and private property that are caused by blockages or flow conditions in a wastewater collection system, other than a building lateral. Sewage backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned is a spill when sewage is discharged off a private property into streets, storm drains, or waters of the State.

**Sewage:** Any liquid waste and water borne solid waste resulting from residential, commercial, industrial, or institutional activities or uses.

**Standby Person:** A designated Wastewater Maintenance Section staff person who is on call to perform his or her assigned duties outside of his or her regularly assigned working shift.

**Surface Waters:** All permanent and intermittent drainage ways, lakes, and reservoirs, either public or private, which are not man-made for the treatment of municipal, agricultural, or industrial waste, and wholly or partially within the boundaries of the City of Pomona. Spills to storm drains tributary to surface waters shall be reported as discharges to surface waters.

**Untreated or Partially Treated Wastewater:** Any volume of sewage discharged from the wastewater collection system upstream of a wastewater treatment plant.

**Wastewater Collection System:** Any system of pipes, pump stations, sewer lines, etc., used to collect and convey sewage to a treatment plant. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments,

tanks, high-lines, etc.) are considered to be part of the sanitary sewer system, and discharges of sewage to these facilities are not spills.

**Waters of the United States:** All waters of the United States as defined in the Code of Federal Regulations, Volume 40, Section 122.2 (40 CFR 122.2) such as navigable waters, rivers, streams, lakes, natural ponds, wetlands, etc., including tributaries to traditional navigable waters.

# Chapter 2

## Spill Response Procedures

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Spills are caused by a blockage or a restriction in the wastewater collection system, pipe failures, flows exceeding the capacity of the system, and other natural or man-made causes. In the event of a spill, the City's wastewater staff must respond and be prepared to:

- Contain the Spill;
- Control the Spill;
- Clean up the contaminated area; and
- Notify the appropriate authorities.

This section presents a strategy for the Wastewater Maintenance Section to mobilize labor, materials, tools, and equipment to contain, mitigate, and clean-up residuals from a sewer overflow and correct or repair any condition which may cause or contribute to an un-permitted sewage discharge. This plan is applicable to a wide range of potential system failures that could create a spill. Figure 2-1 summarizes the process presented in this chapter and offers a concise overview of the following steps required to quickly respond to an actual or possible spill event.

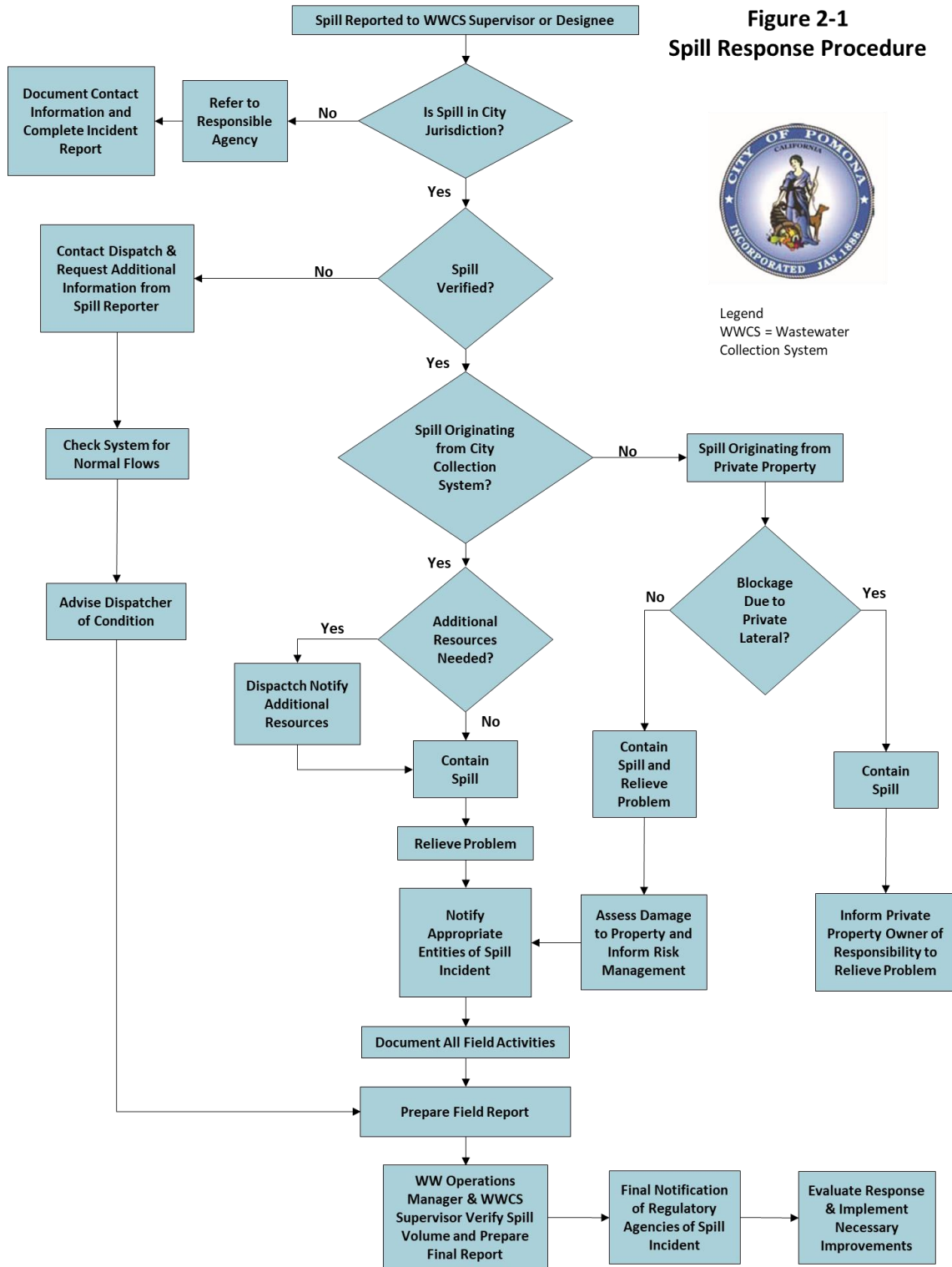
### 2.1 Receiving Information about a Possible Spill

A spill may be detected by City employees or the public. Suspicious circumstances, such as foul odors, backed up plumbing, unusual flooding, unusually low flows entering a pump station or treatment plant, and so on, may also indicate the possibility of an actual or impending spill. This section describes how the City's Wastewater Maintenance Section staff is notified of possible spills.

#### 2.1.1 Notifications of Possible Spills

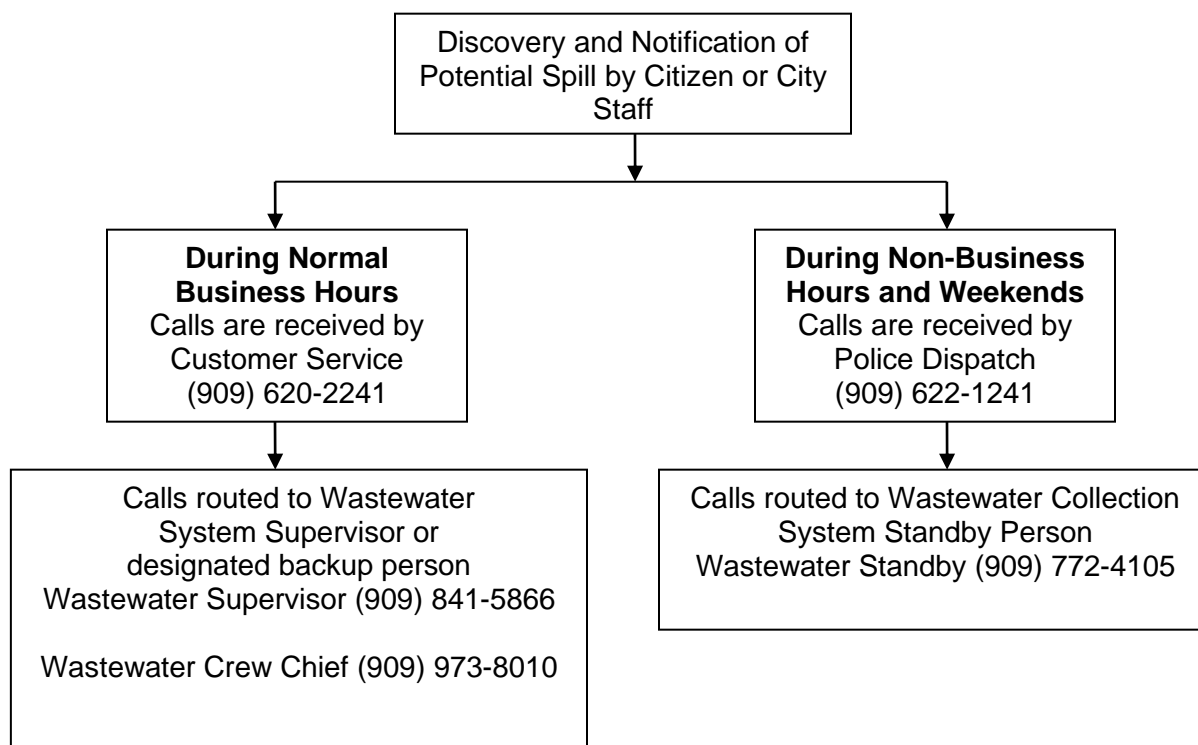
Notifications of possible spills may be received via telephone calls or the City's GovQA notification system currently in place. The GovQA system allows the public to notify the City of various issues via e-mail. The e-mails are received, tracked, and disseminated to the appropriate staff for resolution. Although City staff is required to respond to issues received via the GovQA system within a specific period of time, messages received regarding potential spills require immediate response, and therefore notification of a potential spill via the GovQA system is not recommended or typical. Calls or complaints received via telephone for actual or possible spills are routed to the Distribution/Wastewater Supervisor from either the City's Customer Services Section or the Pomona Police Dispatch Center. If the Supervisor is not available or non-responsive, then the designated back-up person is notified. Figure 2-2 shows how a possible spill will be reported to the Wastewater Collection System Supervisor.

Figure 2-1  
Spill Response Procedure



Legend  
WWCS = Wastewater Collection System

**Figure 2-2  
Process for Alerting Staff of a Possible Spill**



As illustrated in Figure 2-2, notification of a potential spill will be routed directly to the Wastewater System Supervisor from City Hall's Customer Service Section, during normal business hours. During non-business hours, weekends, and designated City holidays, calls will be received by the City of Pomona Police Dispatch Center and forwarded to the Wastewater Collection System Standby person in the City's Wastewater Maintenance Section.

Upon receipt of a notification of a potential spill, the Wastewater System Supervisor or the designated back-up will obtain as much information as possible from the reporting entity. The relevant information that should be collected includes:

- Time and date the call/spill report was received;
- Specific location (address, cross streets, etc.);
- Description of problem;
- Time the possible spill was noticed by the caller;
- Caller's name and telephone number;
- Observations of the caller (e.g. odor, magnitude of flow, duration, back or front of property, etc.); and



- Other relevant information that will enable the responding City staff personnel and crews, if required, to quickly locate, assess, contain, and relieve the spill.

The *Spill Field Report* form in Attachment A can be used by the Wastewater Collection System Supervisor or designated back-up person to capture the relevant information needed to respond to a report of a possible spill as well as be useful for initiating the work order assignment.

## 2.1.2 Wastewater Collection System Personnel Notifications of Possible Spills

Possible and actual spills detected by wastewater collection system personnel in the course of their normal duties are reported immediately to the ~~Distribution~~Wastewater System Supervisor or designated back-up. Personnel on-site observing the spill should begin efforts to contain and minimize the effects of the spill as further described in sub-section 2.5 below.

## 2.1.3 Pump Station Alarm Notifications Possible Spills

Since the City's four pump stations are owned, operated, and maintained by the LACSD under a contract between the City and LACSD created in 2013, the City is no longer responsible to respond first to any possible or actual spill reported at a pump station. Each pump station has telemetry to monitor certain events and activate alarms. The City will not be notified if a pump alarm is transmitted as it will go directly to the LACSD.

**Table 2-1  
Pump Station Alarms**

| <b>Alarm</b>                    | <b>PS1</b> | <b>PS2</b> | <b>PS3</b> | <b>PS4</b> |
|---------------------------------|------------|------------|------------|------------|
| Pump Control Failure            | X          | X          |            |            |
| Power Failure                   | X          | X          | X          | X          |
| High Water Level in the Wetwell | X          | X          | X          |            |
| Low Water Level in the Wetwell  | X          | X          |            |            |
| High Water Level in the Drywell | X          | X          |            | X          |

## 2.2 First Responder Responsibilities

Based on the information provided during the notification of a possible spill, the Wastewater System Supervisor or the designated back-up person shall proceed to the spill location to assess the cause and extent of the spill. The City staff person to arrive first at the location is considered the First Responder. The First Responder will determine whether to direct a wastewater crew, other City personnel, and/or approved contractors to the spill location if the spill cannot be fully contained or recovered or if it has reached public waters. The information obtained during the initial notification of a possible spill may warrant the First Responder, in his best professional judgment, to dispatch crews or other City personnel before proceeding to the reported spill location.

It is the responsibility of the first City staff person who arrives at the site of a sewer spill to protect the health and safety of the public by mitigating the impacts of the spill to the extent possible. Areas where public contact with sewage is possible shall be isolated using barricades, signs, or other effective means. Upon determining the spill originated in the City's jurisdiction, the First Responder will perform the following:

- Determine the cause of the spill, e.g. sewer line blockage, or pipeline break, etc.;
- Identify and request, if necessary, additional personnel, materials, and equipment necessary to minimize, contain, or isolate the impact of the spill;
- Control public access to affected area; and
- Implement efforts to stop the spill.

If the First Responder determines the spill is not within the City's jurisdiction, he or she should notify the responsible agency to respond to the spill. If the spill poses an imminent danger to the public, public health, property, or to public waterways of the United States, then the First Responder should take prudent emergency actions to mitigate the spill until staff of the responsible party arrives.

If the First Responder cannot locate the spill or the reported problem, he shall attempt to obtain additional information from the initial caller or Police Dispatch Operator to clarify reported data and to locate the problem. If the spill or reported problem still cannot be located, the First Responder shall check the system for normal flows, advise dispatch of the non-condition, and prepare the final field report.

### **2.3 Dispatch of Crew(s) to Spill Location**

Failure of any element within the wastewater collection system that threatens or causes a spill triggers an immediate response to isolate and correct the problem. City Wastewater Collection System crews and equipment are stationed at the City's Water Yard, from where they are dispatched. The equipment is available 24-hours a day and staff are placed on "standby" on a rotational schedule to respond to any site of a reported spill. Also, additional City maintenance personnel from the Water Section are also placed on "standby" in case additional resources are necessary. Attachment B contains the names and contact information for the on-call Wastewater Collection System personnel. All departments that may be required to provide resources in the event of a spill should ensure that standby lists are prepared and distributed to

all affected departments to facilitate communications as necessary. Standby lists for each department should be updated on a routine basis.

All employees dispatched to a spill location shall proceed immediately to the site. Spills within the City's jurisdiction that enter into areas outside the City's authority will continue to be contained and the affected agency will be notified of the spill to ensure proper cleaning and notifications are completed.

### **2.4 Requesting Additional Resources**

If the First Responder determines that notification of additional staff beyond the "on-call" spill response crews is required and/or City approved contractors are necessary to fully contain and recover the spill, the Distribution/Wastewater Supervisor or designated back-up will mobilize the additional resources necessary. In the case of contractors, staff would be subject to the emergency procurements provision established by the Finance Department.

The City has access to additional resources from its own staff as well as outside on call contractors that can be mobilized in case of an emergency or major spills. A LACSD list of contractors and equipment rental vendors are provided in Attachment C.

### **2.5 Spill Containment, Correction, and Clean-up**

This section describes specific actions to be performed by Wastewater Maintenance Section staff and additional crews responding during a spill. The objectives of the following actions are to:

- Protect public health, the environment, and property from spills and restore the surrounding area back to its original condition;
- Contain the sewage discharged to the maximum extent possible and prevent the discharge of sewage into surface waters;
- Establish perimeters and control zones with cones, barricades, sign postings, caution tape, vehicles, and/or terrain;
- When appropriate, promptly notify regulatory agencies of preliminary spill information and potential impacts; and
- Minimize the City's exposure to any regulatory agency penalties and fines.

Under most circumstances, the City will oversee, manage, and perform the tasks necessary to properly and effectively correct, contain, and clean up spills. The City shall respond with its own staff, equipment, and/or contractors. These personnel have the skill and experience to respond rapidly and in the most appropriate manner. Of critical importance with respect to an emergency response is to ensure that the temporary actions necessary to divert flows and fix the problem do not produce a problem elsewhere in the system. If the matter is not handled properly, subsequent sewer system back-ups may occur and create other spills.

The Spill Response Flowchart shown in Figure 2-1 above illustrates emergency response procedures including notification and request of additional resources as required in the event of a large spill.

## 2.5.1 Initial Measures and Containment

The following are initial measures to contain the spill and recover, where possible, sewage that has already spilled in order to minimize impact to the public or environment. The City crew responding to the incident shall:

- Initiate measures to contain the overflowing sewage and to recover as much spilled sewage as possible;
- Determine the immediate destination of the spill (e.g. street curb gutter, storm drain, drainage channel, creek bed, body of water, etc.);
- Identify and request, if necessary, assistance or additional resources (materials and equipment) to contain or isolate the spill;
- Take immediate steps to contain the spill (e.g. block storm drain, recover sewage with a vacuum truck, dig or construct a containment pond, divert flow into a downstream manhole, etc.).

## 2.5.2 Additional Measures for Prolonged Spill Conditions

In the event of a prolonged sewer line blockage or sewer line collapse, the responding City crew shall establish a portable by-pass pumping operation around the obstruction, continuously or periodically monitor the by-pass pumping operation, and perform emergency repairs to stop the spill. Table 2-2 can be used as a guide to select the appropriate pump.

**Table 2-2  
Pump Capacity Estimating Table**

| <b>Pump Size (inches)</b> | <b>Estimated Capacity (GPM)</b> | <b>Equivalent Gravity Sewer Flow (half full sewer)</b> |
|---------------------------|---------------------------------|--|
| 2 X 2                     | 200                             | 6 inch diameter  |
| 3 X 3                     | 450                             | 8 inch diameter  |
| 4 X 4                     | 600                             | 10 inch diameter                                       |
| 6 X 6                     | 1,000                           | 12 inch diameter                                       |
| 8 X 8                     | 1,600                           | 15 inch diameter                                       |
| 10 X 10                   | 2,800                           | 18 inch diameter                                       |

## 2.5.3 Correction of Spill Cause

## **Spill Response Procedures**

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Once the spill has been contained and the cause determined, efforts to correct the cause of the spill should commence. These efforts may involve, but not be limited to, removing the pipe blockage by flushing or rodding, repairing a damaged pipeline or manhole, and manually operating pump station controls. Care must be taken to prevent additional spills from occurring as a result of the corrective action taken to resolve the identified problem.

## 2.5.4 Clean-up

All spill sites must be thoroughly cleaned as soon as possible after an overflow. No readily identifiable residue (e.g., sewage solids, papers, plastics, etc.) is to remain. Clean-up of all spills will be handled according to the following procedures:

- The spill site must be secured to prevent contact by members of the public until the site has been thoroughly cleaned;
- Where practical, the area shall be thoroughly flushed and cleaned of any sewage or wash-down water using high-pressure water hose or Vactor truck; wash-down water shall be contained and recovered; solids and debris shall be flushed, swept, raked, or picked-up by hand, and hauled away for proper disposal;
- Where appropriate (typically in areas with hard surfaces), areas that came in contact with the sewage shall be disinfected and deodorized; proper contact time for proper disinfection must be ensured;
- Where sewage has resulted in ponding, the pond must be pumped dry and the residue removed and disposed of properly; and
- If sewage has discharged into a body of water that may contain fish or other aquatic life, disinfection will not be performed and the appropriate agency will be contacted.

## 2.6 Traffic and Crowd Control

The purpose of traffic and crowd control is to limit public access to areas potentially impacted by un-permitted discharges of sewage. The following traffic and crowd control recommendations may be used as a guide for the various types of spills.

### Small Spill (Up to 1,000 gallons)

- i. Set up cones to direct traffic away from spill area; and
- ii. Use City personnel to control traffic and pedestrians.

### Medium Spill (1,000 to 10,000 gallons)

- i. Contact regulatory agencies as required;
- ii. Perform lane closures as necessary;
- iii. Place proper signage for any lane closures and contaminated area signs;
- iv. Close affected entrances or exits from public and private facilities; and
- v. Place caution tape and barricades to protect pedestrians from contaminated area.

### Large Spill (greater than 10,000 gallons)

- i. Assess spill situation;

- ii. Contact regulatory agencies as required;
- iii. Inform City Police Department of any law enforcement assistance necessary for roadway closures and traffic control;
- iv. Delegate responsibility to County Health Department of informing public of hazards;
- v. Place signage to inform public of potential hazards to public health and safety; and
- vi. Block public access to hazard using barricades, cones, and caution tape.

### **2.7 Preliminary Assessment of Damage to Private and Public Property**

Initial assessment of the spill site is performed by the First Responder, who is either the Distribution/Wastewater Supervisor or the designated back-up person. The First Responder will determine whether the spill originated from the City's collection system or a private business or residence. Once the source of the spill is determined, containment and cleanup procedures are executed, and a *Spill Field Report* (see Attachment A) will be completed.

#### **2.7.1 Public Source Spill**

If it is determined that the source of the spill is from the City's wastewater collection system, containment and cleanup procedures are executed to prevent the spill from reaching adjacent private properties, local water bodies, and the storm drain system. Once the spill is contained and cleaned, proper documentation utilizing the appropriate forms will be completed.

If it is determined that the spill has reached a private residence or business, the spill is reported to the City's Risk Management personnel prior to Wastewater Collection System personnel leaving the site. A *Damage Report to Private Property* (see Attachment D) is completed and forwarded with the *Spill Field Report* to the City's Risk Management. Photographs and/or video footage shall be taken of the overflow and area impacted by the spill. Photographs and/or video footage shall be collected with the Survey123 digital *Sewer Field Report* smart form.

#### **2.7.2 Private Source Spill**

If it is determined that the source of the spill is from a sewer lateral, the responding supervisor and crew will use discretion in assisting the property owner/occupant as reasonably as they can. Contact will also be made with the City's Risk manager to explain the situation and to determine a joint course of action. City staff is cautioned that the City and the Wastewater Maintenance Section may be liable for further damages inflicted to private property during such assistance. If City staff enters private property it needs to be with the expressed permission of the owner/occupant of the property. The City crew should not enter private property for the purpose of assessing damage. Staff is directed to take appropriate still photographs and video footage, if possible, of the surrounding and impacted area in order to thoroughly document the nature and extent of the impacts. Photographs and/or video footage shall be filed with the *Spill Field Report*.

In the event that flow from a spill that originated from a sewer lateral extends into the public right of way, City staff will execute containment and cleanup procedures to prevent the spill from reaching adjacent private properties, local water bodies, and the storm drain system. Once the spill is contained and cleaned, proper documentation utilizing the appropriate forms will be completed. Staff is directed to take appropriate still photographs and video footage, if possible, of the surrounding and impacted area in order to thoroughly document the nature and extent of the impacts. Photographs and/or video footage should be filed with the *Spill Field Report*.

### 2.8 Notification Requirements

The volume, impact, and location of a spill determine the level of notifications required to comply with City and regulatory requirements. Table 2-3 provides a summary of the officials and agencies who should be informed of a spill as soon as practicable without impeding containment or other emergency response measures. Attachment E lists the specific names and numbers of the individuals holding these positions. The City is not required to send reports to the Los Angeles Regional Water Quality Control Board; this reporting is now achieved using the web-based on-line spill reporting system, CIWQS, which is further described in Chapter 4. In the event that the CIWQS reporting system is not available, the information should be reported to the LARWQCB via **phone at (213) 576-6600 via fax at (213) 576-6640.**

### 2.9 Monitoring and Mitigation

The First Responder who confirmed the spill must ensure that the provisions of this SERP and other directives are met. City staff shall conduct an assessment of the impacts following a spill. Appropriate mitigation and monitoring measures shall be implemented following the assessment to monitor the site for potential future spills and to prevent spills from re-occurring.

#### Spill-Specific Monitoring Requirements (All Spills):

- Assess spill location and spread using photography, GPS, and other tools.
- Document critical spill locations, including origin, entry points, discharge locations, extent of spread, and cleanup areas.
- Estimate spill volume using updated techniques and reporting.

#### Receiving Water Monitoring Requirements (Category 1 Spills):

- **Within 18 hours**, sample and analyze water quality for sewage spills of 50,000 gallons or more into surface water.
- Conduct visual observations to estimate spill travel time, volume, and impact on surface waters.
- Capture photographs of bank erosion, floating matter, water surface sheen, discoloration, and impact.



## Spill Response Procedures

- Collect water samples at designated locations and analyze for ammonia and bacterial indicators.
- Ensure compliance with water quality objectives and bacterial standards specified in relevant Ocean, Bay, or Estuary plans.
- Perform additional sampling and analysis as directed by the Regional Water Board.

Water Quality Analysis Specifications:

- Ensure spill monitoring represents the activity being monitored.
- Use sufficiently sensitive test methods approved under federal regulations for sample analysis.
- Perform water quality analysis in laboratories accredited by the Environmental Laboratory Accreditation Program (ELAP).

Additional details on Spill Specific and Receiving Water monitoring requirements and methods are described in Attachment L.

**Table 2-3  
Spill Notification Requirements**

| Agency/Official   | Reasons to Notify  | When to Notify                                |
|---|--|---|
| Pomona Police Department, Emergency Services            | Public Safety concerns, such as assistance with traffic control  | Immediately                                   |
| Governor's Office of Emergency Services (Cal OES)       | Category 2 spill conditions  | Immediately                                   |
|   | Category 1, any sewage discharge to a drainage channel and/or surface water, or a discharge to a storm drainpipe that is not fully recovered | Within 2 hours of becoming aware of discharge |
| Los Angeles County Public Health, Water Quality Section | A sewage discharge to a drainage channel and/or surface water, or a discharge to a storm drainpipe that is not fully recovered               | Within 15 minutes of notification of Spill    |
| Los Angeles Regional Water Quality Control Board        | Category 2, or private lateral spill   | As soon as practicable                        |
|   | Category 1, any sewage discharge to a drainage channel and/or surface water, or a discharge to a storm drainpipe that is not fully recovered | Within 2 hours of becoming aware of discharge |
| Los Angeles County Sanitation Districts                 | A pump station alarm has sounded   | Immediately                                   |
| Los Angeles County Public                               | A spill impacts the County's facilities  | As soon as practicable                        |

## Spill Response Procedures

|  |   |  |
|--|---|--|
| Works  |   |  |
| Pomona Risk Management                                       | Spill from City system enters private property or causes a spill on private property  | Prior to leaving spill site              |
| Environmental Compliance Officer                             | A sewage discharge to a drainage channel and/or surface water, or a discharge to a storm drain pipe that is not fully recovered | Within 24 hours of notification of spill |
| City of Pomona Code Compliance                               | A potential violation of City Codes is noted  | As soon as practicable                   |
| Pomona Water Resources Director                              | Unusual circumstances resulting from spill  | As soon as determined necessary          |
| Pomona Public Works Director                                 | Unusual circumstances resulting from spill in anticipation of media coverage or heightened scrutiny                             | As soon as determined necessary          |
| Pomona Public Information Officer or the Deputy City Manager | Unusual circumstances resulting from spill in anticipation of media coverage or heightened scrutiny                             | As soon as determined necessary          |
| Pomona City Manager  | Unusual circumstances resulting from spill in anticipation of media coverage or heightened scrutiny                             | As soon as determined necessary          |

### 2.10 Spill Documentation

Documenting spills and their causes provide information for:

- Management for performance measurement and decision-making;
- Regulators to meet established reporting requirements;
- Planning future maintenance and repair activities;
- Engineering determinations regarding capacity, rehabilitation, or replacement; and
- Reference for historical performance or claims.

The First Responder shall ensure that the spill is properly investigated and documented. Information compiled during the investigation of the spill shall be recorded on the *Spill Report* as shown in Attachment F. Copies of supporting information shall be compiled. The minimum information required from the investigation is:

- Cause of spill;
- Volume of spill including volume released and volume recovered;
- Location of point of discharge, including Thomas Guide map page;
- Ultimate destination of the spill;
- Impact and extent of impact;
- Estimated start time of spill;

- Time City received notification of spill;
- Arrival time of crew(s) and time to correct the spill;
- End time of spill;
- Water body impacted and results of bacteriological monitoring, if applicable;
- Actions taken to mitigate the spill; and
- Notifications to regulators and others.

A variety of approaches exist for estimating spill volumes. Attachment G provides guidance on estimating the volume of sewage that escaped from the wastewater collection system and the amount of sewage recovered.

Once the results of the spill investigation are completely documented on the Spill Report, a copy of the form shall be provided to the Distribution/Wastewater Supervisor. The Distribution/Wastewater Supervisor shall follow up, in person or by telephone, with the person(s) initially reporting the spill. The cause of the spill and its resolution should be disclosed.

## **Chapter 3**

# **Public Advisory of Sewage Contamination Procedures**

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This chapter describes the action the City must take to limit public access to surface waters and other areas potentially impacted by spills from the wastewater collection system.

The City has primary responsibility for determining when to post notices of polluted surface waters or ground surfaces that resulted from uncontrolled wastewater discharges from its facilities. The County Department of Public Health may also make a determination and direct the City to post notices. The postings do not necessarily prohibit the use of recreational areas, unless posted otherwise, but provide a warning of potential public health risks due to sewage contamination.

The posting of notices shall be done as soon as practicable following the initial response to the spill. Signs should be posted on either side of the point of entry where sewage entered the body of water or public facility and the nearest public access point to that body of water or public facility. Examples of signs are included in Attachment H.

Staff shall regularly inspect the posted notices and replace any missing or damaged warning signs. Posted notices shall not be removed until it is determined that the threat to public health and safety is eliminated or at the direction of the County Department of Health.

Should additional notification of sewage contamination be deemed necessary, City staff shall, in cooperation with the City's public information officer, provide further notices through the use of pre-scripted notices made available to the printed or electronic news media for immediate publication or airing, or by other measures, such as door hangers. Examples of pre-scripted notices, which are included in Attachment I, should be modified to accurately reflect the conditions at the time of publication and/or airing. Information specific to the spill occurrence may be included where text is underlined or in parenthesis.

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# Chapter 4

## Spill Reporting Requirements

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City staff shall monitor and report spills regardless of size and recovery that originate from the City's wastewater collection system. The City has the option of reporting any known spills that occur from private laterals. This chapter details the reporting procedures necessary to comply with State Water Resources Control Board and City requirements.

### 4.1 Spill Identification, Tracking, and Logging

A work order must be created to track and monitor each spill event. Using a completed *Spill Field Report* form (Attachment A) and a completed *Spill Report* form (Attachment F), the Distribution/Wastewater Supervisor can create the work order and enter the necessary data from the forms. All forms, documentation, and monitoring results should be kept with the work order.

### 4.2 Spill Category Classification

Spills are divided into five categories:

- **Category 1 Spill:** A spill of sewage of any volume from or caused by an enrollee's sanitary sewer system that results in a discharge to:
  - A surface water including a surface water body that contains no flow or volume of water; or
  - A drainage conveyance system that discharges to surface waters when the sewage is **not fully captured** and returned to the sanitary sewer system or disposed of properly.
  - Any spill volume not recovered from a drainage conveyance system is considered a discharge to surface water, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility (e.g., infiltration pit, percolation pond).
  - A spill from an Enrollee-owned and/or operated lateral that discharges to a surface water.
  
- **Category 2 Spill:** A spill that is 1,000 gallons or greater:
  - That **does not** discharge to a surface water.
  - That enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.

## Spill Reporting Requirements

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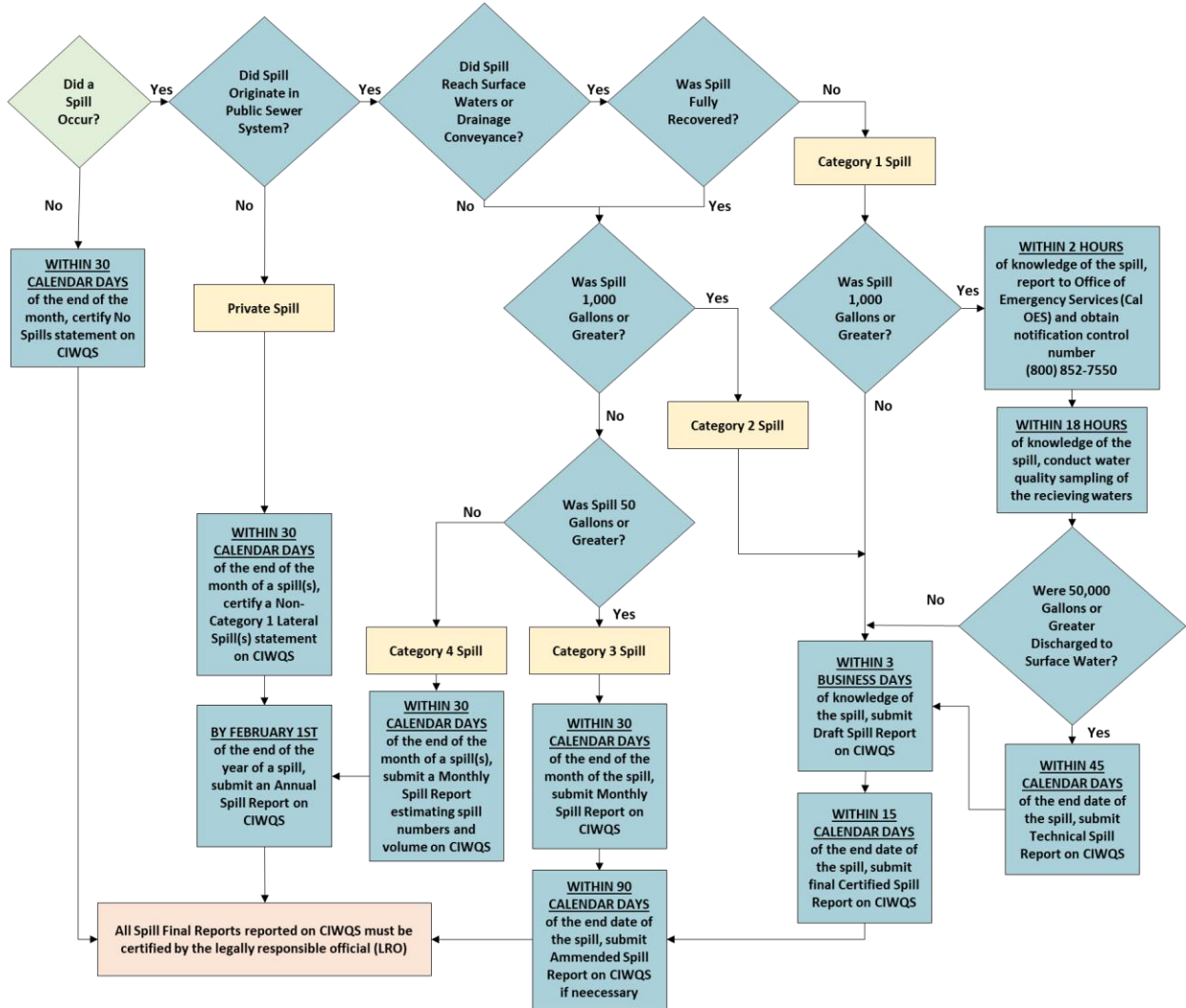
- **Category 3 Spill:** All discharges of sewage that:
  - Equal to or greater than 50 gallons and less than 1,000 gallons.
  - Spill that **does not** discharge to a surface water.
  - Spill that enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.
  
- **Category 4 Spill:** All discharges of sewage that:
  - Less than 50 gallons.
  - Spill that **does not** reach a surface water.
  - Spill that enters a drainage conveyance system but **is fully recovered** and returned to the sanitary sewer system.
  
- **Private Lateral Spill:** Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

Figure 4-1 shows a flow chart that will guide City staff in determining the category classification of a spill, and the reporting requirements that are necessary.

### 4.3 On-Line Reporting Requirements

As of January 2, 2007, the WDRs require that the City report spills using the California Integrated Water Quality System (CIWQS), an internet-based reporting system. This section describes the reporting procedures.

**Figure 4-1  
Sanitary Sewer Spill CIWQS Reporting Requirements**





### 4.3.1 Reporting Authority and Access

At a minimum, the City is required to have one (1) Legally Responsible Official (LRO) who is registered with the State of California to officially sign and certify spill reports submitted via the CIWQS web-site. Currently, the Water Resources Director and the Wastewater System Supervisor are LROs. The Data Submitter for the City is Mike Moody. This individual is registered with the State to enter spill data, create and edit spill reports, and review data. Data Submitters cannot certify reports. Data Submitters are typically the First Responders to a spill location, or the person who collects the spill data for reporting. The City can identify and register as many Data Submitters as deemed necessary.

Each Agency is assigned a unique Waste Discharge Identification Number. The City of Pomona's number is WDID #4SSO10418. All LRO's and Data Submitters receive a unique logon and password. This information should be guarded and protected. If an authorized user suspects his or her logon and password has been lost, stolen, or otherwise compromised, that person shall contact the State Water Resources Control Board via the CIWQS help desk at 866-792-4977.

### 4.3.2 Mandatory Information to Report via CIWQS

Specific mandatory information must be included for each spill report submitted via CIWQS, prior to finalizing and certifying a spill report. Attachment K contains an outline of the required information needed to complete the on-line reporting.

The CIWQS reporting requirements are not in lieu of other reporting requirements. The City must also perform Regional Board reporting requirements, the Governor's Office of Emergency Services reporting, and notifications to the County Health Department.

Once the data is properly entered into the CIWQS database, and the SSO investigation is complete, the SSO report must be certified by the LRO based on Table 4-1.

# Spill Reporting Requirements

**Table 4-1  
CIWQS Reporting Time Requirements**

| <b>Spill Type</b>     | <b>Initial CIWQS Report</b> | <b>Certification Requirements</b>                                      |
|-----------------------|-----------------------------|--|
| Category I Spill      | Within 3 business days      | Within 15 days of the conclusion of the spill response and remediation |
| Category II Spill     | Within 3 business days      | Within 15 days of the conclusion of the spill response and remediation |
| Category III Spill    | Prior to Certification      | Within 30 days after the end of the month in which the spill occurred  |
| Category IV Spill     | Prior to Certification      | Within 30 days after the end of the month in which the spill occurred  |
| Private Lateral Spill | Prior to Certification      | Within 30 days after the end of the month in which the spill occurred  |
| No Monthly Spills     | N/A                         | Within 30 days after the end of the month in which no spills occurred  |

### **4.3.3 Monthly Category 4, Non-Category 1 Private Lateral, or No Spill Certification**

For each month that no spills, only Category 4, or Non-Category 1 Private Lateral Spills are identified and reported via CIWQS, the City's LRO must prepare and submit a statement in the CIWQS Spill Database, certifying that there were No Spills or a total estimate of Category 4 or Private Lateral Spill volume for the designated month. This report must be submitted within 30 days after the end of each calendar month with only Category 4/Lateral or no spills, as noted in Table 4-1.

### **4.3.4 Amending Certified Spill Reports**

Within 90 calendar days of the certified Spill Report due date, updates or additional information may be added to a Certified Spill Report by amending the report or by adding an attachment to the Spill Report in the online CIWQS Sanitary Sewer System Database.

After 90 calendar days, the Legally Responsible Official shall contact the State Water Board at SanitarySewer@waterboards.ca.gov to request to amend a certified Spill Report. The Legally Responsible Official shall submit justification for why the additional information was not reported within the 90-day timeframe for amending the certified Spill Report, as provided above.

### **4.3.5 Alternative Reporting Procedures when On-Line Reporting is Unavailable**

In the event that the CIWQS Spill On-line Database is not available to submit required reports or certify reports, City staff must fax all required information to the Los Angeles Regional Water Quality Control Board office in accordance with the time schedules identified in Table 4-1. The

City is also obligated to enter all required information into the On-line Spill Database as soon as practicable.

#### 4.4 Record Keeping and Document Retention

The City must retain individual spill records for a minimum of five (5) years from the date of the spill occurrence. This period may be extended when requested by a Los Angeles Regional Water Quality Control Board Executive Officer. All records shall be made available for review upon State or Regional Board staff's request.

Specific records that must be retained include, but are not limited to:

- Certified reports as submitted on-line;
- Original recordings of continuous monitoring efforts;
- Spill call logs;
- Action(s) or planned action(s) to prevent future spills from recurring;
- Work orders, work completed, and maintenance records associated with responses and investigations of spill related problems;
- A list and description of complaints from customers or others; and
- Documentation of performance and implementation measures.

To facilitate the City's ability to report regularly on spills, the Wastewater System Supervisor maintains an Excel™ spreadsheet that contains information about each spill. Attachment J shows the data and attributes collected about each spill. The Wastewater System Supervisor should input data as soon as practicable after a spill event. This database can be queried for trends and used as a cross reference for the on-line spill reporting requirements.

## Chapter 5 Training

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Appropriate staff will participate in regularly scheduled training sessions to assist response crews in awareness of their responsibilities and executing their duties. These training sessions will be organized based on the latest SERP as well as other reference materials. Training sessions shall also incorporate hands-on field demonstrations to insure the preparedness of all response personnel to anticipated spill situations.

An overview of the Sewer System Management Plan (SSMP) and the SERP is provided to City staff. This will serve as a mode of instructing staff on the SSMP, spills, and required documentation. Field demonstrations will be performed to test equipment, response time, training effectiveness, resources, and manpower capabilities.

Additionally, City staff will make the SERP available to any contractor who may provide service to the City to ensure that the contractors are properly informed of the response procedures. In addition, the goal was to train the City's street maintenance staff should they be the first to come upon a spill in the field.

Training and event participation for wastewater and engineering at CWEA, WEFTEC, and Tri-State Seminars, annual conferences, vendor training on equipment, seminars will be documented and maintained. Although RWQCB does not require certification, the City has made this a requirement in wastewater staff's job description. However, certification requirements may be imposed in the future if deemed necessary by the RWQCB.

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## **Chapter 6**

### **Updating this SERP**

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This SERP reflects the City's established procedures for responding to reports of possible and confirmed spills originating from its wastewater collection system. As policies change and response procedures are refined, the SERP will be reviewed and modified to reflect all necessary changes.

#### **6.1 SERP Availability**

The SERP will be reviewed annually to ensure that all information is updated. The amended SERP will be distributed to the appropriate staff, City Departments, RWQCB, and be made available to the public for review. Once the plan is re-certified by City Council, it will be posted on the City's web site. Staff shall ensure that this SERP is readily available to sewer system maintenance personnel, and that said personnel are familiar with the plan and comply with it at all times.

#### **6.2 Review and Update of the SERP**

City staff shall maintain this SERP, and amend or update it as necessitated by the addition of new facilities or changes in the operation or maintenance of the sewer system that may materially affect the potential for spills. At a minimum, the plan will be reviewed annually and will include updating telephone numbers and forms in the attachments and a review of procedures. The annual review of the plan will also ensure all provisions of the plan are being met and implemented. City staff shall review and amend this SERP to reflect intelligence learned as a result of experience managing a spill(s). SERP deficiencies and updates will be addressed and modified accordingly. The plan performance will be routinely evaluated, reviewed and updated.

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# **Attachment A Spill Field Report**

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## CITY OF POMONA SANITARY SPILL FIELD REPORT

|  |  |                     |
|--|--|---------------------|
| <b><u>PART A:</u> INITIAL NOTIFICATION</b> |  | Task Order #: _____ |
| Date Reported: _____                       | Time Reported: _____   | (00:00)             |
| Reported by – Name: _____                  | Phone Number: _____  |                     |
| Address or Agency: _____                   |  |                     |
| Location of Overflow: _____                |  |                     |
| Cross Street: _____                        |  |                     |
| Reason for call-out:                       | <input type="checkbox"/> Spill <input type="checkbox"/> Pump Station Alarm <input type="checkbox"/> Other: _____ |                     |
| Stoppage in:                               | <input type="checkbox"/> Mainline <input type="checkbox"/> Private Lateral                                       |                     |
| Cause of Stoppage: _____                   |  |                     |
| Responsible Party:                         | <input type="checkbox"/> City <input type="checkbox"/> Private <input type="checkbox"/> Other: _____             |                     |

|  |  |  |
|--|--|--|
| <b><u>PART B:</u> INITIAL RESPONSE</b>   |  |  |
| Time Arrived at Site: _____  | First Responder: _____   |  |
| Crew Members: _____  |  |  |
| Date Spill Started: _____  | Date Spill Stopped: _____  |  |
| Time Spill Started: _____  | Time Spill Stopped: _____  |  |
| Est. Spill Rate (gpm): _____   | Est. Spill Volume (gal): _____   |  |
| Duration of Flow: _____  | Spill Volume Recovered: _____  |  |
| Reach Storm Drain? <input type="checkbox"/> Yes <input type="checkbox"/> No  | Final Destination of Spill: _____  |  |
| Reach Surface Water? <input type="checkbox"/> Yes <input type="checkbox"/> No  | If YES, Name of Surface Water: _____   |  |
| Pictures/Video Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No   | Samples Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |
| Location of Blockage: <input type="checkbox"/> Main <input type="checkbox"/> Manhole <input type="checkbox"/> Private Lateral <input type="checkbox"/> Other _____ |  |  |
| From MH: _____ To MH: _____  | Overflow Manhole: MH _____   |  |
| Signs Posted? <input type="checkbox"/> Yes <input type="checkbox"/> No   | County Health Dept. Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No                             |  |
| Site Barricaded? <input type="checkbox"/> Yes <input type="checkbox"/> No  |  |  |
| Cause of Spill:<br>(Check All that Apply)  | <input type="checkbox"/> Blockage <input type="checkbox"/> Grease <input type="checkbox"/> Vandalism               |  |
|  | <input type="checkbox"/> Roots <input type="checkbox"/> Line Break <input type="checkbox"/> Construction           |  |
|  | <input type="checkbox"/> Rocks <input type="checkbox"/> Flood/Rain <input type="checkbox"/> Private Property Cause |  |
|  | <input type="checkbox"/> Debris <input type="checkbox"/> Infiltration <input type="checkbox"/> Other: _____        |  |
| Containment Materials? _____   | Responsible Party: _____   |  |
| Cleanup Method: _____  |  |  |

\*Sketch Area and Overflow Description on Back of Sheet

**SKETCH OF AREA: (Include manholes, intersections, location of blockage, etc.)**

**DESCRIPTION OF SPILL RESPONSE EFFORTS:**

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**Completed by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_**

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## **Attachment B Contact List**

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City of Pomona  
Wastewater On-Call Response Personnel



| <b>City Staff</b>                       | <b>Contact Name</b> | <b>Office Phone Number</b> | <b>Cell Phone Number</b> |
|---|---------------------|----------------------------|--------------------------|
| Wastewater System Supervisor            | Romell Eutsey       | (909) 620-7426             | (909) 841-5866           |
| Wastewater Collection System Crew Chief | Mike Moody          | (909) 802-7433             | -                        |
| Wastewater Maintenance Technician II    | Carlos Velarde      | (909) 802-7437             | -                        |
| Wastewater Maintenance Technician I     |                     | (909) 802-7437             | -                        |
| Water Distribution Supervisor           | Danny Aceves        | (909) 802-7476             | (909) 268-6760           |
| Water Resources Director                | Chris Diggs         | (909) 802-7412             | (909) 557-4963           |
| Environmental Compliance Supervisor     | Julie Carver        | (909) 620-3628             | (909) 706-0220           |
| City of Pomona Risk Management Office   | Chris Millard       | (909) 620-2280             |                          |
| Public Works Director                   | Rene Guerrero       | (909) 620-2440             |                          |
| Public Works:                           | Main Line           | (909) 620-2262             | -                        |
| Streets                                 | Jerry Perez         | (909) 620-2482             | (909) 524-8613           |
| Street Lighting                         | Ron Chan            | (909) 620-2286             | -                        |
| Parks and Facilities                    | Danny Whaley        | (909) 620-2481             | (909) 731-7229           |
| City Manager                            | James Makshanoff    | (909) 620-2052             |                          |

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## **Attachment C Approved Contractors**

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## Approved Contractors and Equipment Rental Vendors

Contractors:

| Contractor Name             | Address                                    | Telephone      | Contact Name     | Services Provided    |
|-----------------------------|--|----------------|------------------|----------------------|
| Duke's Rooted in Innovation | 400 Airport Rd., Ste. E,<br>Elgin IL 60123 | (800) 447-6687 | Thomas Edwards   | Foaming Root Control |
| Golden Bell Products, Inc   | 952 N Batavia St.,<br>Orange CA 92867      | (714) 363-3985 | Michelle Webster | Annual Roach Control |
| WasteManagement             | 10633 Ruchti Rd.,<br>South Gate CA 90280   | (310) 466-5248 | Lisa Nash        | Hazardous Waste      |

Equipment Vendors:

| Vendor Name        | Address                                   | Telephone      | Contact Name  | Available Equipment              |
|--------------------|---|----------------|---------------|----------------------------------|
| Haaker - Vactor    | 2070 N White Ave., La<br>Verne CA 91750   | (909) 598-2706 | Santiago Luna |                                  |
| United Water Works | 1313 E Hunter Ave.,<br>Santa Ana CA 92705 |                |               | General Maintnace<br>and Repairs |
|                    |   |                |               |                                  |

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**Attachment D**  
**Private Property Damage Form**

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# Private Property Initial Damage Assessment Form

*The information requested on this form is for the purpose of documenting the possible impacts and extent of damage caused by a spill at, or as close to, the time of the event. By using this form, the City, its employees, elected officials, contract staff, and volunteers do not admit liability or culpability for the damage being documented.*

**INSTRUCTIONS:** City staff at the spill location are instructed to write notes, take photographs, and, if possible, video record the visible area without entering the private property. Please complete as much of this form as possible. Keep a copy and submit this form to Risk Management.

## SSO INFORMATION

Date of spill event: \_\_\_\_\_ Task Order #: \_\_\_\_\_

Location of Spill Event: \_\_\_\_\_  
(ADDRESS)

Cross Street: \_\_\_\_\_

## AFFECTED PROPERTY

Address of Private Property: \_\_\_\_\_

\_\_\_\_\_ Zip Code: \_\_\_\_\_

Owner/Occupant Name(s): \_\_\_\_\_

Owner/Occupant Telephone Number(s): \_\_\_\_\_

## INITIAL DAMAGE ASSESSMENT

Brief Description of Damage: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reported by (name and title): \_\_\_\_\_

Dated: \_\_\_\_\_

*(attach sketches, photographs, and other items documenting the extent and impact of damage)*



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## **Attachment E Notification List**

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## City of Pomona Spill Notification List



| <b>Contact List</b>   | <b>Contact Name</b> | <b>Telephone Number</b> |
|---|---------------------|-------------------------|
| Regional Water Quality Control Board (RWQCB)                                  | -                   | (213) 576-6650          |
| The Governor's Office of Emergency Services Warning Center (OES)              | -                   | (800) 852-7550          |
| Los Angeles County Department of Environmental Health - Water Quality Program | -                   | (626) 430-5420          |
| City of Pomona Risk Management Office   | Chris Millard       | (909) 620-2294          |
| Pomona Police Department - Emergency Services                                 | -                   | (909) 620-3741          |
| Pomona Police Department - Dispatch during Non-Business Hours                 | -                   | (909) 622-1241          |
| Pomona Fire Department - Battalion 15 Office                                  | -                   | (909) 620-2087          |
| City Hall Customer Service  | Rozaluia Outley     | (909) 620-2241          |
| Wastewater System Supervisor  | Romell Eutsey       | (909) 602-7426          |
| Wastewater Collection System Crew Chief                                       | Mike Moody          | (909) 802-7433          |
| Distribution Supervisor   | Danny Aceves        | (909) 802-7476          |
| Equipment Operator  | Danny Aceves        | (909) 802-7476          |
| Los Angeles County Public Works   | -                   | (800) 675-4357          |
| Los Angeles County Sanitation Districts (LACSD)                               | -                   | (562) 699-7111 ext 2907 |
| Los Angeles County Health Hazardous Materials Division                        | -                   | (323) -890-4000         |
| National Response Center  | -                   | (800) 424-8802          |
| CHEMTREC  | -                   | (800) 424-9300          |
| City of Pomona Public Works Engineering Division                              | -                   | (909) 620-2261          |
| City of Pomona Services -Environmental (NPDES) Storm Water Compliance         | Julie Carver        | (909) 620-3628          |
| City of Pomona Code Compliance  | -                   | (909) 620-2374          |
| Water Resources Operations Manager  |                     | (909) 620-2255          |
| Water Resources Director  | Chris Diggs         | (909) 802-7412          |
| City Manager  | James Makshanoff    | (909) 620-2052          |
| California Highway Patrol (CHP)   | -                   | -                       |
| Caltrans  | -                   | -                       |

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# **Attachment F Spill City Report**

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# CITY OF POMONA SPILL REPORT



CIWQS Identifier: \_\_\_\_\_ Task Order # \_\_\_\_\_

This report is:       Preliminary       Final       Revised

### Reporting Details

Name & Title of Person Completing this Report: \_\_\_\_\_

Phone # \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ (00:00)  
(24-hour clock)

Name of Person First Reporting Spill: \_\_\_\_\_

Phone # \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ (00:00)  
(24-hour clock)

### Location of Overflow

Street Address: \_\_\_\_\_ Nearest Cross Street: \_\_\_\_\_

Thomas Brothers Grid: \_\_\_\_\_ Latitude of Spill: \_\_\_\_\_ Longitude of Spill: \_\_\_\_\_

City: Pomona County: Los Angeles Zip: \_\_\_\_\_

Location of Potential Blockage or Problem Point: From MH#: \_\_\_\_\_ To MH#: \_\_\_\_\_

Spill Appearance Point:     Building     Force Main     Manhole     Sewer     Pump Station  
 Other: \_\_\_\_\_

Terrain at Spill Location:     Flat     Mixed     Steep

Diameter of Sewer: \_\_\_\_\_ in    Material of Sewer: \_\_\_\_\_    Estimated Age: \_\_\_\_\_ yrs

### Spill Details

Estimated Overflow **START**:      Date: \_\_\_\_\_ Time: \_\_\_\_\_ (00:00)  
(24-hour clock)

Estimated **ARRIVAL** of Operator:      Date: \_\_\_\_\_ Time: \_\_\_\_\_ (00:00)  
(24-hour clock)

Estimated Overflow **STOP**:      Date: \_\_\_\_\_ Time: \_\_\_\_\_ (00:00)  
(24-hour clock)

Duration of Spill (in minutes) = \_\_\_\_\_ Minutes

Estimated Spill Rate: \_\_\_\_\_ gpm    Total Volume of Spill: \_\_\_\_\_ gal

Spill Volume Recovered: \_\_\_\_\_ gal    Spill Volume Lost: \_\_\_\_\_ gal

Spill Cause:     Debris     Flow Exceeded Capacity     FOG     Rainfall     Roots  
 Operator Error     Structural Problem     Pump Station Failure     Vandalism  
 Other: \_\_\_\_\_

If wet weather caused the spill, chose storm size:

1yr     2yr     5yr     10yr     50yr     100yr     >100yr     Unknown

**Spill Destination Details**

Spill Final Destination: Beach Building Paved Surface Unpaved Surface Storm Drain  
Curb & Gutter Surface Water Other: \_\_\_\_\_

If spill reached a storm drain, give street location (Specify N/S/E/W side): \_\_\_\_\_

Describe distance (feet) and path taken from spill to storm drain inlet: \_\_\_\_\_  
\_\_\_\_\_

If spill reached surface waters, describe Receiving Waters: \_\_\_\_\_

If applicable, name and/or describe Secondary Receiving Water: \_\_\_\_\_

**Response**

Response Activities (Check ALL that Apply): Contained All or Part of spill Restored Flow  
Returned All or Part of Spill to Sewer Cleaned Up CCTV  
Other: \_\_\_\_\_

| Responding City Personnel: | Time Arrived: | Time Departed: |
|----------------------------|---------------|----------------|
| _____                      | _____         | _____          |
| _____                      | _____         | _____          |
| _____                      | _____         | _____          |

Equipment Used: \_\_\_\_\_

Other Responding Agency/Contractor: \_\_\_\_\_  
\_\_\_\_\_

**Spill Clean-up Details**

Materials Used for Containment: \_\_\_\_\_

Washwater Disposal Method: \_\_\_\_\_

Volume of Washwater Used: \_\_\_\_\_ gal

Combined Volume of Recovered Washwater and Sewage-Contaminated Water: \_\_\_\_\_ gal

Combined Volume of Lost Washwater and Sewage-Contaminated Water: \_\_\_\_\_ gal

**Miscellaneous** (Attach photos, correspondence, or follow-up reports that provide detailed information.)

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Prevention Plan**

Steps, taken or planned, to reduce or eliminate re-occurrence of spill: \_\_\_\_\_

Schedule of any MAJOR milestones or improvements: \_\_\_\_\_

Steps, taken or planned, to mitigate the impacts of the spill: \_\_\_\_\_

Schedule of any MAJOR milestones or improvements: \_\_\_\_\_

**Notification Contact List** (Check all who were notified.)

| Name/Agency   | Phone #        | Time  | Date  |
|---|----------------|-------|-------|
| <input type="checkbox"/> Regional Board (RWQCB)               | (213) 576-6650 | _____ | _____ |
| <input type="checkbox"/> Office of Emergency Services (OES) 1 | (800) 852-7550 | _____ | _____ |
| <input type="checkbox"/> County Health Department             | (323) 881-4147 | _____ | _____ |
| <input type="checkbox"/> Risk Management                      | (909) 620-2294 | _____ | _____ |
| <input type="checkbox"/> Police Dept-Emergency Services       | (909) 620-3741 | _____ | _____ |
| <input type="checkbox"/> Pomona Fire Department               | (909) 620-2087 | _____ | _____ |
| <input type="checkbox"/> City Hall Customer Service           | (909) 620-2241 | _____ | _____ |
| <input type="checkbox"/> Wastewater Supervisor                | (909) 620-7426 | _____ | _____ |
| <input type="checkbox"/> WWC Crew Chief                       | (909) 802-7433 | _____ | _____ |
| <input type="checkbox"/> Equipment Operator                   | (909) 802-7476 | _____ | _____ |
| <input type="checkbox"/> Water Operations Manager             | (909) 620-2251 | _____ | _____ |
| <input type="checkbox"/> Water Resources Director             | (909) 802-7412 | _____ | _____ |
| <input type="checkbox"/> City Manager                         | (909) 620-2051 | _____ | _____ |
| <input type="checkbox"/> Other _____                          | _____          | _____ | _____ |

**MUST** notify OES, County Health Department, and RWQCB within **2 HOURS** of becoming aware of a spill reaching storm pipes, drainage channels, and/or surface waters

OES Control # \_\_\_\_\_

Report faxed to RWQCB?  Yes  No If yes, date and time of fax: \_\_\_\_\_

**Public Use Closures**

Were signs posted warning of contaminants?  Yes  No Dates Posted: \_\_\_\_\_

Location of Postings: \_\_\_\_\_

Were samples obtained of contaminated water?  Yes  No (Attach any and all results.)

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# **Attachment G**

## **Methods for Estimated Spill Volume**

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## Methods for Estimating Spill Volume

A variety of approaches exist for the estimation of the volume of a spill. This appendix documents four methods that are most often employed. Other methods are also possible. The person preparing the estimate shall use the method most appropriate to the Spill in question using his/her judgment. Every effort shall be made to make the best possible estimate of the volume.

### **Method 1**         Eyeball Estimate

The volume of very small spills can be estimated using an “eyeball estimate.” To use this method imagine the amount of water that would spill from a bucket or a barrel. A bucket contains 5 gallons and a barrel contains 50 gallons. If the spill is larger than 50 gallons, try to break the standing water into barrels and then multiply by 50 gallons. This method is useful for contained spills up to 100 gallons.

### **Method 2**         Measured Volume

The volume of some small spills can be estimated using this method if it is not raining. In addition, the shape, dimensions, and depth of the spilled sewage are needed. The shape and dimensions are used to calculate the area of the spill and the depth is used to calculate the volume.

Step 1 Sketch the shape of the contained sewage

Step 2 Measure or pace off the dimensions

Step 3 Measure the depth in several locations

Step 4 Convert the dimensions, including depth to feet.

Step 5 Calculate the area using the following formulas:

Rectangle     Area = length x width

Circle         Area = diameter x diameter x 0.785

Triangle       Area = base x height x 0.5

Step 6 Multiply the area times the depth

Step 7 Multiply the volume by 7.5 to convert it to gallons

### **Method 3**         Duration and Flow Rate

Calculating the volume of spills where it is difficult or impossible to measure the area and depth requires a different approach. In this method separate estimates are made of the duration of the spill and the flow rate. The methods of estimating duration and flow rate are:

Duration: The duration is the elapsed time from the start time to the end time, when the spill stopped.



**Start time** is sometimes difficult to establish. Here are two approaches:

- For very large overflows, changes in flow on a downstream flow meter can be used to establish the start time. Typically the daily flow peaks are “cut off” or flattened by the loss of flow. This can be identified by comparing hourly flow data.
- Conditions at the spill site change with time. Initially there will be limited deposits of grease and toilet paper. After a few days to a week, the grease forms a light colored residue. After a few weeks to a month the grease turns dark. In both cases the quantity of toilet paper and other materials of sewage origin increase in amount. These changes with time can be used to estimate the start time in the absence of other information.
- Sometimes it is simply not possible to estimate the start time.

**End time** is usually much easier to establish. Field crews on-site observe the “blow down” that occurs when the blockage has been removed. The “blow down” can also be observed in downstream flow meters.

**Flow Rate:** The flow rate is the average flow left in the sewer system during the time the spill stopped. There are three ways to estimate the flow rate:

- San Diego Manhole Flow Rate Reference Sheet: This sheet, presented in Figure G-1, shows the sewage flowing from a manhole cover for a variety of flow rates. The observations of the field crew are used to select the approximate flow rate from the chart.
- Flow meter: Changes in flows in the downstream flow meters can be used to estimate the flow rate during the spill (better for large spills)
- Estimate based on up-stream connections: Once the location of the spill is known, the number of upstream connections can be determined from system maps. Multiply the number of connections by 200 to 250 gallons per day per connection or 8 to 10 gallons per hour per connection, or other flow rates that are consistent with the City’s data for its connections.

Once duration and flow rate have been estimated, the volume of the spill is the product of the duration in hours or days times the flow rate in gallons per hour or gallons per day.



City of San Diego  
Metropolitan Wastewater Department

### Reference Sheet for Estimating Sewer Spills from Overflowing Sewer Manholes

All estimates are calculated in gallons per minute (gpm)



5 gpm



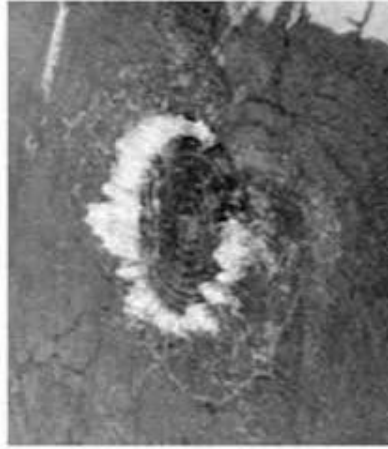
100 gpm



225 gpm



25 gpm



150 gpm



250 gpm



Wastewater Collection Division  
(619) 654-4160



50 gpm



200 gpm



275 gpm

All photos were taken during a demonstration using metered water from a hydrant in cooperation with the City of San Diego's Water Department.

rev. 4/99

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## **Attachment H Warning Sign**

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**WARNING:**

**KEEP OUT**

**RAW**

**SEWAGE**

**City of Pomona**

**(909) 620-2241**

**DANGER!**

**CONTAMINATED WATER  
KEEP OUT**



**AGUA CONTAMINADA  
ALEJESE**

**PELIGRO!**

**City of Pomona**

**(909) 620-2241**

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# **Attachment I News Release Samples**

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SAMPLE PRE-SCRIPTED NEWS RELEASE – INITIAL NOTIFICATION

(City of Pomona, Wastewater Operations Division letterhead)

**For Immediate Release**

**Date and Time**

Cause of failure, such as mechanical breakdown or natural cause (lightning or local flooding) damage at sewage facility located near the intersection of street name and street name has caused sewage overflow into the surface water name in area name. A map showing the location of the sewage facility and areas impacted by the overflow is attached.

Although Wastewater Maintenance Section crews have begun to make temporary repairs and divert some of the flows to which plant and/or interim bypass pumping has begun, backups may occur in portions of the system. Consequently, residents (reference area or location on map) are urged to reduce water usage inside their homes as much as possible and to avoid coming into physical contact with standing waters in the street or using receiving surface water for any purpose until further notice.

Please note that the drinking water supply is not affected; however, the cooperation of residents to minimize water usage in order to reduce sewage flows is of the utmost importance.

CONTACT: Public Information Officer  
Mark Gluba  
(909) 620-2448

Wastewater System Supervisor  
Romell Eutsey  
(909) 620-7426

SAMPLE PRE-SCRIPTED NEWS RELEASE – REPAIR UPDATE

(City of Pomona, Wastewater Operations Division letterhead)

**For Immediate Release**

**Date and Time**

Cause of failure, such as mechanical breakdown or natural cause (lightning or local flooding) damage at sewage facility located near the intersection of street name and street name has caused sewage overflow into the surface water name in area name. Repair crews were dispatched to assess the extent of the damage and to initiate repairs. To date, the following actions have been taken:

[Description of work accomplished.]

It is anticipated that the repair work will be complete by day, date, and time. Additional advisories will be issued if the status of the repairs should change.

Residents are cautioned to refrain from visiting the area where the repair efforts are being conducted.

CONTACT: Public Information Officer  
Mark Gluba  
(909) 620-2448

Wastewater System Supervisor  
Romell Eutsey  
(909) 620-7426



## SAMPLE PRE-SCRIPTED NEWS RELEASE – CLOSING STATEMENTS

(City of Pomona, Wastewater Operations Division letterhead)

### **For Immediate Release**

#### **Date and Time**

Cause of failure, such as mechanical breakdown or natural cause (lightning or local flooding) damage at sewage facility located near the intersection of street name and street name has caused sewage overflow into the surface water name in area name. The leak caused the discharge of approximately number of thousand or million gallons of sewage into name of surface water, resulting in restricted public access to the

A specially trained team of repair experts was mobilized to take immediate and effective action. The repairs were complete in time in hours and/or days and involved around-the-clock operations.

The City of Pomona Wastewater Operations Division worked in cooperation with the Los Angeles County Health, Water, and Sewage Department in monitoring the environmental effects of the sewage discharge on name of surface water. The media assisted in issuing advisories to keep the public informed of the status of remedial actions. As a result, the impacts of accidental sewage discharged were minimized. The water quality in name of surface water is continuing to be monitored to ensure there are no threats to public health and the environment.

CONTACT:      Public Information Officer  
                         Mark Gluba  
                         (909) 620-2448

                         Wastewater System Supervisor  
                         Romell Eutsey  
                         (909) 620-7426

SAMPLE PRE-SCRIPTED NEWS RELEASE – WATER CONSERVATION

(City of Pomona, Wastewater Operations Division letterhead)

**For Immediate Release**

**Date and Time**

Cause of failure, such as mechanical breakdown or natural cause (lightning or local flooding) damage at sewage facility located near the intersection of street name and street name has caused sewage overflow into the surface water name in area name. The leak has caused portions of surface water name to become polluted and necessitates reducing the discharge of sewage to the sewer system.

In order to prevent backups in the sewer system and sewage spills, residents are urged to reduce household water use. Residents should take the following actions:

1. Limit clothes washing
2. Limit showers and baths
3. Limit toilet flushing

It is necessary to restrict water use only for the period required to fix the leak. City of Pomona Wastewater Operations Division crews have already begun to make repairs. Advisories will be issued when the repairs are completed so normal water use may resume.

The break does not affect the water supply. The water is safe to drink, but please limit water use to reduce sewage flow as much as possible.

CONTACT: Public Information Officer  
Mark Gluba  
(909) 620-2448

Wastewater System Supervisor  
Romell Eutsey  
(909) 620-7426

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**Attachment J**  
**Spill Monthly Report Spreadsheet**

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SSO TRACKING DATABASE  
Recommended Headings

| Task Order Number | CIWQS Spill Database ID | Date Spill is First Reported to City | Time Spill is First Reported to City | Reported By: |         | Reported to CIWQS On-line database |      | Reported to RWQCB |      | Person Completing Report |         |
|-------------------|-------------------------|--------------------------------------|--------------------------------------|--------------|---------|------------------------------------|------|-------------------|------|--------------------------|---------|
|                   |                         |                                      |                                      | Name         | Phone # | Date                               | Time | Date              | Time | Name                     | Phone # |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |
|                   |                         |                                      |                                      |              |         |                                    |      |                   |      |                          |         |

SSO TRACKING DATABASE  
Recommended Headings

| Responsible Party | Spill Estimated Start |      | Spill Estimated End |      | Did any Sewage Reach Storm Drain? | Did Spill Reach Surface Waters other than a Storm Drain? | Containment Info. | Waswater Disposal Method | Estimated Overflow Rate | Spill Volume Lost | How was Volume Calculated? |
|-------------------|-----------------------|------|---------------------|------|-----------------------------------|--|-------------------|--------------------------|-------------------------|-------------------|----------------------------|
|                   | Date                  | Time | Date                | Time |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |
|                   |                       |      |                     |      |                                   |  |                   |                          |                         |                   |                            |

SSO TRACKING DATABASE  
Recommended Headings

| Photo Documentation | Recovered Spill Volume | Volume of Recovered Washwater & Sewage | Volume of Lost Washwater & Sewage | Location |      |        |     | Spill Structure ID | Number of Overflows w/in 1000 ft of this Location | Dates of Overflows w/in 1000 ft of this Location | Location of Potential Bolckage or Problem Point |
|---------------------|------------------------|--|-----------------------------------|----------|------|--------|-----|--------------------|---|--|---|
|                     |                        |  |                                   | Street   | City | County | Zip |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |
|                     |                        |  |                                   |          |      |        |     |                    |   |  |   |

SSO TRACKING DATABASE  
Recommended Headings

| Description of Component from which Spill Occurred | Overflow Cause - Detailed Description | Measurable Precipitation 72 Hours Prior to Overflow | Steps, Taken or Planned, to Reduce, or Eliminate, Reoccurrence of Spill | Schedule of Major Milestones | Steps Taken or Planned to Mitigate the Impacts of the Spill | Schedule of Major Milestones | Any Additional Correspondence and Follow-up Reports as Necessary to Supplement the Spill Report Form and Provide Detailed Info |
|--|---------------------------------------|---|---|------------------------------|---|------------------------------|--|
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |
|  |                                       |   |   |                              |   |                              |  |

SSO TRACKING DATABASE  
Recommended Headings

| Name or Description of Initial Receiving Water | Name or Description of Secondary Receiving Water | Describe final destination of sewage | Was the Local Health Services Agency Notified? | If the Spill was > 1000 gal, was OES Notified? | Were Signs Posted to Warn of Contamination? | Location of Posting | Dates that Warning Signs were Posted | Were Samples Obtained of Contaminated Water? | Remarks |
|--|--|--------------------------------------|--|--|---|---------------------|--------------------------------------|--|---------|
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |
|  |  |                                      |  |  |   |                     |                                      |  |         |



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**Attachment K**  
**CWIQS Data Required for Online Reporting**

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**Attachment K**  
**CIWQS Data Required for Online Reporting**

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## CIWQS – Required Data for Online Reporting

The California State Water Resources Control Board requires that all sanitary sewer overflows (spills) be reported via the on-line application, California Integrated Water Quality System (CIWQS). Certain information is required to properly document and submit a spill. This Attachment lists the information required for reporting spills.

### The following information is required for all Category 1 Spill Reports:

**Draft Report – Within three (3) business days** of the knowledge of spill.

1. Contact information: Name and telephone number of Enrollee contact person to respond to spill-specific questions;
2. Spill location name;
3. Date and time the Enrollee was notified of, or self-discovered, the spill;
4. Operator arrival time;
5. Estimated spill start date and time;
6. Date and time the Enrollee notified the California Office of Emergency Services, and the assigned control number;
7. Description, photographs, and GPS coordinates of the system location where the spill originated;
  - If a single spill event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the spill appearance point explanation field;
8. Estimated total spill volume exiting the system;
9. Description and photographs of the extent of the spill and spill boundaries;
10. Did the spill reach a drainage conveyance system? If Yes:
  - Description of the drainage conveyance system transporting the spill;
  - Photographs of the drainage conveyance system entry location(s);
  - Estimated spill volume fully recovered from the drainage conveyance system;
  - Estimated spill volume remaining within the drainage conveyance system;
11. Description and photographs of all discharge point(s) into the surface water;
12. Estimated spill volume that discharged to surface waters; and
13. Estimated total spill volume recovered

**Certified Report – Within 15 calendar days** of the spill end date.

1. Description of the spill event destination(s), including GPS coordinates if available, that represent the full spread and reach of the spill;
2. Spill end date and time;
3. Description of how the spill volume estimations were calculated, including at a minimum:
  - The methodology, assumptions and type of data relied upon, such as supervisory control and data acquisition (SCADA) records, flow monitoring or other telemetry information used to estimate the volume of the spill discharged, and the volume of the spill recovered (if any volume of the spill was recovered), and
  - The methodology(ies), assumptions and type of data relied upon for estimations of the spill start time and the spill end time;
4. Spill cause(s) (for example, root intrusion, grease deposition, etc.);
5. System failure location (for example, main, lateral, pump station, etc.);

6. Description of the pipe material, and estimated age of the pipe material, at the failure location;
7. Description of the impact of the spill;
8. Whether or not the spill was associated with a storm event;
9. Description of spill response activities including description of immediate spill containment and cleanup efforts;
10. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the spill, and a schedule of major milestones for those steps;
11. Spill response completion date;
12. Detailed narrative of investigation and investigation findings of cause of spill;
13. Reasons for an ongoing investigation (as applicable) and the expected date of completion;
14. Name and type of receiving water body(s);
15. Description of the water body(s), including but not limited to:
  - Observed impacts on aquatic life,
  - Public closure, restricted public access, temporary restricted use, and/or posted health warnings due to spill,
  - Responsible entity for closing/restricting use of water body, and
  - Number of days closed/restricted as a result of the spill.
16. Whether or not the spill was located within 1,000 feet of a municipal surface water intake; and
17. If water quality samples were collected, identify sample locations and the parameters the water quality samples were analyzed for. If no samples were taken, Not Applicable shall be selected.

**Spill Technical Report – Within 45 calendar days** of the spill end date, if the spill discharges 50,000 gallons or greater to a surface water.

1. Spill causes and circumstances, including at minimum:
  - Complete and detailed explanation of how and when the spill was discovered;
  - Photographs illustrating the spill origin, the extent and reach of the spill, drainage conveyance system entrance and exit, receiving water, and post-cleanup site conditions;
  - Diagram showing the spill failure point, appearance point(s), the spill flow path, and ultimate destinations;
  - Detailed description of the methodology employed, and available data used to calculate the discharge volume and, if applicable, the recovered spill volume;
  - Detailed description of the spill cause(s);
  - Description of the pipe material, and estimated age of the pipe material, at the failure location;
  - Description of the impact of the spill;
  - Copy of original field crew records used to document the spill; and
  - Historical maintenance records for the failure location.
2. Enrollee's response to the spill:
  - Chronological narrative description of all actions taken by the Enrollee to terminate the spill;
  - Explanation of how the Sewer System Management Plan Spill Emergency Response Plan was implemented to respond to and mitigate the spill; and
  - Final corrective action(s) completed and a schedule for planned corrective actions, including:

- Local regulatory enforcement action taken against an illicit discharge in response to this spill, as applicable,
  - Identifiable system modifications, and operation and maintenance program modifications needed to prevent repeated spill occurrences, and
  - Necessary modifications to the Emergency Spill Response Plan to incorporate lessons learned in responding to and mitigating the spill.
3. Water Quality Monitoring, including at minimum:
    - Description of all water quality sampling activities conducted;
    - List of pollutant and parameters monitored, sampled and analyzed; as required in section 2.3 (Receiving Water Monitoring) of this Attachment;
    - Laboratory results, including laboratory reports;
    - Detailed location map illustrating all water quality sampling points; and
    - Other regulatory agencies receiving sample results (if applicable).
  4. Evaluation of spill impact(s), including a description of short-term and long-term impact(s) to beneficial uses of the surface water.

**The following information is required for all Category 2 Spill Reports:**

**Draft Report – Within three (3) business days** of the knowledge of spill.

1. Contact information: Name and telephone number of Enrollee contact person to respond to spill-specific questions;
2. Spill location name;
3. Date and time the Enrollee was notified of, or self-discovered, the spill;
4. Operator arrival time;
5. Estimated spill start date and time;
6. Date and time the Enrollee notified the California Office of Emergency Services, and the assigned control number;
7. Description, photographs, and GPS coordinates of the system location where the spill originated;
  - If a single spill event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the spill appearance point explanation field;
8. Estimated total spill volume exiting the system;
9. Description and photographs of the extent of the spill and spill boundaries;
10. Did the spill reach a drainage conveyance system? If Yes:
  - Description of the drainage conveyance system transporting the spill;
  - Photographs of the drainage conveyance system entry location(s);
  - Estimated spill volume fully recovered from the drainage conveyance system;
  - Estimated spill volume remaining within the drainage conveyance system;
  - Estimated spill volume discharged to a groundwater infiltration basin or facility, if applicable; and
11. Estimated total spill volume recovered.

**Certified Report – Within 15 calendar days** of the spill end date.

1. Description of the spill event destination(s), including GPS coordinates if available, that represent the full spread and reach of the spill;
2. Spill end date and time;
3. Description of how the spill volume estimations were calculated, including at a minimum:

- The methodology, assumptions and type of data relied upon, such as supervisory control and data acquisition (SCADA) records, flow monitoring or other telemetry information used to estimate the volume of the spill discharged, and the volume of the spill recovered (if any volume of the spill was recovered), and
  - The methodology(ies), assumptions and type of data relied upon for estimations of the spill start time and the spill end time;
4. Spill cause(s) (for example, root intrusion, grease deposition, etc.);
  5. System failure location (for example, main, lateral, pump station, etc.);
  6. Description of the pipe material, and estimated age of the pipe material, at the failure location;
  7. Description of the impact of the spill;
  8. Whether or not the spill was associated with a storm event;
  9. Description of spill response activities including description of immediate spill containment and cleanup efforts;
  10. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the spill, and a schedule of major milestones for those steps;
  11. Spill response completion date;
  12. Detailed narrative of investigation and investigation findings of cause of spill;
  13. Reasons for an ongoing investigation (as applicable) and the expected date of completion;
  14. Whether or not the spill was located within 1,000 feet of a municipal surface water intake.

### **The following information is required for all Category 3 Spill Reports:**

**Monthly Report – Within 30 calendar days** of the end of the month in which the spill occurred.

1. Contact information: Name and telephone number of Enrollee contact person to respond to spill-specific questions;
2. Spill location name;
3. Date and time the Enrollee was notified of, or self-discovered, the spill;
4. Operator arrival time;
5. Estimated spill start date and time;
6. Description, photographs, and GPS coordinates of the system location where the spill originated;
  - If a single spill event results in multiple appearance points, provide GPS coordinates for the appearance point closest to the failure point and describe each additional appearance point in the spill appearance point explanation field;
7. Estimated total spill volume exiting the system;
8. Description and photographs of the extent of the spill and spill boundaries;
9. Did the spill reach a drainage conveyance system? If Yes:
  - Description of the drainage conveyance system transporting the spill;
  - Photographs of the drainage conveyance system entry location(s);
  - Estimated spill volume fully recovered from the drainage conveyance system;
  - Estimated spill volume remaining within the drainage conveyance system;
10. Estimated total spill volume recovered
11. Description of the spill event destination(s), including GPS coordinates if available, that represent the full spread and reach of the spill;
12. Spill end date and time;

13. Description of how the spill volume estimations were calculated, including at a minimum:
  - The methodology, assumptions and type of data relied upon, such as supervisory control and data acquisition (SCADA) records, flow monitoring or other telemetry information used to estimate the volume of the spill discharged, and the volume of the spill recovered (if any volume of the spill was recovered), and
  - The methodology(ies), assumptions and type of data relied upon for estimations of the spill start time and the spill end time;
14. Spill cause(s) (for example, root intrusion, grease deposition, etc.);
15. System failure location (for example, main, lateral, pump station, etc.);
16. Description of the pipe material, and estimated age of the pipe material, at the failure location;
17. Description of the impact of the spill;
18. Whether or not the spill was associated with a storm event;
19. Description of spill response activities including description of immediate spill containment and cleanup efforts;
20. Description of spill corrective action, including steps planned or taken to reduce, eliminate, and prevent reoccurrence of the spill, and a schedule of major milestones for those steps; including, at minimum:
  - Local regulatory enforcement action taken against an illicit discharge in response to this spill, as applicable, and
  - Identifiable system modifications, and operation and maintenance program modifications needed to prevent repeated spill occurrences at the same spill event location, including:
    - Adjusted schedule/method of preventive maintenance,
    - Planned rehabilitation or replacement of sanitary sewer asset,
    - Inspected, repaired asset(s), or replaced defective asset(s),
    - Capital improvements,
    - Documentation verifying immediately implemented system modifications and operating/maintenance modifications,
    - Description of spill response activities,
    - Spill response completion date, and
    - Ongoing investigation efforts, and expected completion date of investigation to determine the full cause of spill;
21. Spill response completion date;

**The following information is required for all Category 4 Spill Reports:**

**Monthly Report – Within 30 calendar days** of the end of the month in which the spill occurred.

1. Estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills.
2. If only Category 4 spills occur, a certification statement of “Category 4 Spills”

**Annual Report – By Feb 1<sup>st</sup>** after the end of the calendar year in which the spill occurred.

Recordkeeping of Category 4 spills must include:

1. Contact information: Name and telephone number of Enrollee contact person to respond to spill-specific questions;

2. Spill location name;
3. Description and GPS coordinates for the system location where the spill originated;
4. Did the spill reach a drainage conveyance system? If Yes:
  - Description of drainage conveyance system location,
  - Estimated spill volume fully recovered within the drainage conveyance system, and
  - Estimated spill volume remaining within the drainage conveyance system;
5. Estimated total spill volume exiting the sanitary sewer system;
6. Spill date and start time;
7. Spill cause(s) (for example, root intrusion, grease deposition, etc.);
8. System failure location (for example, main, pump station, etc.);
9. Description of spill response activities including description of immediate spill containment and cleanup efforts;
10. Description of how the volume estimation was calculated, including, at minimum:
  - The methodology and type of data relied upon, including supervisory control and data acquisition (SCADA) records, flow monitoring or other telemetry information used to estimate the volume of the spill discharged, and the volume of the spill recovered (if any volume of the spill was recovered), and
  - The methodology and type of data relied upon to estimate the spill start time, on-going spill rate at time of arrival (if applicable), and the spill end time;
11. Description of implemented system modifications and operating/maintenance modifications

## **The following information is required for all Lateral Spill Reports:**

**Monthly Report – Within 30 calendar days** of the end of the month in which the spill occurred.

- If Lateral Spills occur that do not reach surface waters, a certification statement of “Non-Category 1 Lateral Spills”

**Annual Report – By Feb 1<sup>st</sup>** after the end of the calendar year in which the spill occurred.

Recordkeeping of Lateral Spills must include:

1. Date and time the Enrollee was notified of, or self-discovered, the spill;
2. Location of individual spill;
3. Estimated individual spill volume;
4. Spill cause(s) (for example, root intrusion, grease deposition, etc.); and
5. Description of how the volume estimations were calculated.

Total Annual Spill Information:

1. Estimated total annual spill volume;
2. Description of spill corrective actions, including at minimum:
  - Local regulatory enforcement action taken against the sewer lateral owner in response to a spill, as applicable, and
  - System operation, maintenance and program modifications implemented to prevent repeated spill occurrences at the same spill location.



## **The following information is required for all Non-Spill Reports:**

**Monthly Report – Within 30 calendar days** of the end of the month in which the spill occurred.

- If No Spills occur, a certification statement of “No-Spill”

## **Amending Any Reports:**

The Enrollee shall update or add additional information to a Certified Spill Report within **90 calendar days** of the spill end date by amending the report or by adding an attachment to the Spill Report in the online CIWQS Sanitary Sewer System Database. The Enrollee shall certify the amended report.

**After 90 calendar days**, the Enrollee shall contact the State Water Board at SanitarySewer@waterboards.ca.gov to request to amend a Spill Report. The Legally Responsible Official shall submit justification for why the additional information was not reported within the Amended Spill Report due date.

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**Attachment L**  
**Spill Specific & Receiving Water Monitoring**  
**Requirements**

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# ATTACHMENT L – SPILL SPECIFIC AND RECEIVING WATER MONITORING

## 1. SPILL-SPECIFIC MONITORING REQUIREMENTS

### 1.1 Spill Location and Spread

The City shall visually assess the spill location(s) and spread using photography, global positioning system (GPS), and other best available tools. The City shall document the critical spill locations, including:

- Photography and GPS coordinates for:
  - The system location where spill originated.  
For multiple appearance points of a single spill event, the points closest to the spill origin.
- Photography for:
  - Drainage conveyance system entry locations,
  - The location(s) of discharge into surface waters, as applicable,
  - Extent of spill spread, and
  - The location(s) of clean up.

### 1.2 Spill Volume Estimation

To assess the approximate spill magnitude and spread, the City shall estimate the total spill volume using updated volume estimation techniques, calculations, and documentation for electronic reporting. The City shall update its notification and reporting of estimated spill volume (which includes spill volume recovered) as further information is gathered during and after a spill event.

## 2 RECEIVING WATER MONITORING

### 2.1. Receiving Water Visual Observations

Through visual observations and use of best available spill volume-estimating techniques and field calculation techniques, the City shall gather and document the following information for spills discharging to surface waters:

- Estimated spill travel time to the receiving water;
- For spills entering a drainage conveyance system, estimated spill travel time from the point of entry into the drainage conveyance system to the point of discharge into the receiving water;
- Estimated spill volume entering the receiving water; and
- Photography of:
  - Waterbody bank erosion,
  - Floating matter,
  - Water surface sheen (potentially from oil and grease),

## ATTACHMENT L – SPILL SPECIFIC AND RECEIVING WATER MONITORING

- Discoloration of receiving water, and
- Impact to the receiving water.

### 2.2. Receiving Water – Water Quality Sampling and Analysis

For sewage spills in which an estimated 50,000 gallons or greater are discharged into a surface water, the City shall conduct the following water quality sampling no later than **18 hours** after the City's knowledge of a potential discharge to a surface water:

- Collect one water sample, each day of the duration of the spill, at:
  - The DCS-001 location as described in section 2.3.4 (Receiving Water Sampling Locations) of this Attachment, if sewage discharges to a surface water via a drainage conveyance system; and/or
  - Each of the three receiving water sampling locations in section 2.3.4 (Receiving Water Sampling Locations) of this Attachment;

If the receiving water has no flow during the duration of the spill, the City must report "No Sampling Due To No Flow" for its receiving water sampling locations.

The City shall analyze the collected receiving water samples for the following constituents per section 2.3.3 (Water Quality Analysis Specifications) of this Attachment:

- Ammonia, and
- Appropriate bacterial indicator(s) per the applicable Basin Plan water quality objectives, including one or more of the following, unless directed otherwise by the Regional Water Board:
  - Total Coliform Bacteria
  - Fecal Coliform Bacteria
  - *E-coli*
  - Enterococcus

Dependent on the receiving water(s), sampling of bacterial indicators shall be sufficient to determine post-spill (after the spill) compliance with the water quality objectives and bacterial standards of the California Ocean Plan or the California Inland Surface Water Enclosed Bays, and Estuaries Plan, including the frequency and/or number of post-spill receiving water samples as may be specified in the applicable plans.

The City shall collect and analyze additional samples as required by the applicable Regional Water Board Executive Officer or designee.

ATTACHMENT L – SPILL SPECIFIC AND RECEIVING WATER MONITORING

**2.3. Water Quality Analysis Specifications**

Spill monitoring must be representative of the monitored activity (40 Code of Federal Regulations section 122.41(j)(1)).

Sufficiently Sensitive Methods

Sample analysis must be conducted according to sufficiently sensitive test methods approved under 40 Code of Federal Regulations Part 136 for the sample analysis of pollutants. For the purposes of this General Order, a method is sufficiently sensitive when the minimum level of the analytical method approved under 40 Code of Federal Regulations Part 136 is at or below the receiving water pollutant criteria.

Environmental Laboratory Accreditation Program-Accredited Laboratories

The analysis of water quality samples required per this General Order must be performed by a laboratory that has accreditation pursuant to Article 3 (commencing with section 100825) of Chapter 4 of Part 1 of Division 101 of the Health and Safety Code. (Water Code section 13176(a).) The State Water Board accredits laboratories through its Environmental Laboratory Accreditation Program (ELAP).

**Water Quality Constituent Analysis Methods**

| <b>Constituents</b>                         | <b>Method</b>             | <b>Container/<br/>Preservative</b>   | <b>Holding Time</b> |
|---|---------------------------|--|---------------------|
| Ammonia                                     | SM 4500-NH <sub>3</sub> H | Plastic pint with H <sub>2</sub> SO <sub>4</sub> , on ice                              | 28 Days             |
| Total Coliform, Fecal Coliform, and E. coli | SM 9221-B,C,F             | 120 mL IDEXX sterile plastic bottle with Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | 8 hours             |
| Enterococcus                                | SM 9221-B,C,F             | 120 mL IDEXX sterile plastic bottle with Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> | 8 hours             |

**2.4. Receiving Water Sampling Locations**

The City shall collect receiving water samples at the following locations.

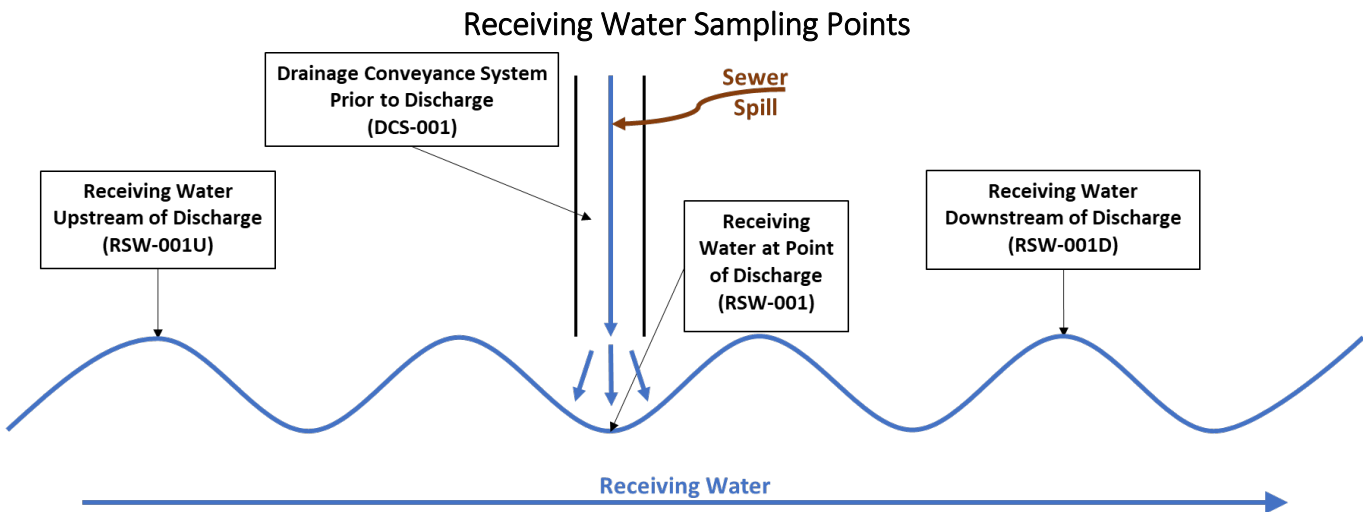
**Sampling of Flow in Drainage Conveyance System (DCS) Prior to Discharge**

| <b>Sampling Location</b> | <b>Sampling Location Description</b>  |
|--------------------------|---|
| DCS-001                  | A point in a drainage conveyance system before the drainage conveyance system flow discharges into a receiving water. |

**Receiving Surface Water Sampling (RSW)<sup>1</sup>**

| Sampling Location                             | Sampling Location Description  |
|---|--|
| RSW-001<br>Point of Discharge                 | A point in the receiving water where sewage initially enters the receiving water.  |
| RSW-001U:<br>Upstream of Point of Discharge   | A point in the receiving water, upstream of the point of sewage discharge, to capture ambient conditions absent of sewage discharge impacts.   |
| RSW-001D:<br>Downstream of Point of Discharge | A point in the receiving water, downstream of the point of sewage discharge, where the spill material is fully mixed with the receiving water. |

<sup>1</sup> The City will use its best professional judgment to determine the upstream and downstream distances based on receiving water flow, accessibility to upstream/downstream waterbody banks, and size of visible sewage plume.



**2.5. Safety and Access Exceptions**

If access restrictions or unsafe conditions are encountered that prevent compliance with spill response requirements or monitoring requirements in this General Order, the City shall provide documentation of access restrictions and/or safety hazards in the corresponding required report.

# **CITY OF POMONA FATS, OILS, AND GREASE CHARACTERIZATION STUDY**

**May 2008**

**Prepared For:**



**The City of Pomona  
Utility Services Department  
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**PBS&J Project No.: 049125300**





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## Attachments

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| Attachment A – City of Pomona Restaurant Master List     |
| Attachment B – City of Pomona Wastewater Emergency Calls |

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# Section 1

## Introduction

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The City of Pomona (City) is committed to complying with the mandates set forth under the General Waste Discharge Requirements for Sanitary Sewer Systems Order No. 2006-0003 (WDRs). The WDRs require that the City develop a specific Sewer System Management Plan (SSMP) to include the provisions necessary to provide proper and efficient management, operation, and maintenance of the wastewater collection system. To comply with one of the eleven (11) mandatory elements of the SSMP, the City prepared a FOG Control Program to effectively reduce the quantity of fats, oils, and grease (FOG) and other debris discharged to the wastewater collection system that may cause sewerage collection system blockages or Spills.

Proper disposal and handling of waste containing excessive FOG quantities is important since it can accumulate in the wastewater collection system and eventually block collection pipes and sewer lines, resulting in backups and overflows on streets, properties and even in private residences. Sewer overflows are unsanitary and negatively impact the environment. They are costly to agencies and the rate payers since the expense of cleaning up and repairs associated with improper disposal of FOG can lead to increased sewer rates.

### 1.1 Purpose of FOG Control Program

The City recognizes the importance of protecting the health and safety of the public and environment by preventing SSOs from reaching surface waters and waters of the United States. In an effort toward compliance with the WDR requirements and developing strategies and procedures to achieve proper and efficient management, operation, and maintenance of the wastewater collection system the City developed a FOG Control Program.

Wastewater discharges containing high concentrations of FOG from food service establishments (FSEs) are the primary cause of blockages and overflows in the City's wastewater collection system. Overflows of wastewater into the storm water collection system that ultimately reach our natural bodies of water could be greatly reduced by controlling the discharge of FOG into the wastewater collection system. SSOs are readily preventable by good management practices and proper maintenance at FSEs.

The City's current preventive maintenance program includes a cleaning cycle for the areas that have been identified by City staff as high frequency maintenance sites. The City's high frequency maintenance sites include pipe segments with high FOG and root concentrations. The pipe segments within the wastewater system that have been identified as having an excessive amount of grease accumulation are routinely cleaned on a monthly basis. Maintenance of high frequency maintenance sites are tracked and scheduled manually by the Wastewater Collection System Supervisor.

The purpose of developing and implementing a FOG Control Program is to facilitate the maximum beneficial public use of the City's wastewater collection system while preventing

# Introduction

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blockages of sewer lines and pump stations, reducing the adverse affects on sewage treatment operations resulting from discharges of FOG into the system, and specifying appropriate FOG discharge requirements for FSEs discharging into the City's wastewater collection system.

The FOG Control Program developed by the City serves to establish the general prohibitions, restrictions, and requirements for FSEs that handle and discharge wastes containing FOG. It also provides information on various methods for effectively controlling and limiting the quantity of FOG discharged into the City's wastewater collection system. In addition to requiring compliance with the City Code and policies, the FOG Control Program serves as an additional enforcement mechanism to require accountability by the FSE for site specific maintenance and management of the facility. In addition, an effective FOG Control Program can minimize revenue losses associated with enforcement actions and the impacts of restricting public activities, such as roadway closures to respond to a FOG related SSO or closures of public access facilities.

## 1.2 FOG Characterization Study Overview

This study discusses the results of a FOG Characterization Study performed based on information provided by the City. Chapter 3 includes recommended ordinances for the City to consider and adopt to establish this authority for implementing and enforcing the FOG Control Program, a discussion on staffing the FOG program, and options to establish FOG user rates and permit fees.

## Section 2

# FOG Characterization Study

---

To develop an effective and comprehensive FOG Control Program and the appropriate control mechanisms for program enforcement, it is necessary to identify the sources and nature of FOG. As well, the location of high frequency maintenance sites and their relationship to FOG discharges must also be determined.

The City has identified that its primary source of FOG is generated from established restaurants located throughout the City. Large quantities of FOG is generated at these FSEs during food preparation from both FOG used to assist in the cooking of the food (i.e., frying oil) and from the food itself (i.e., hamburger meat). The quantity of FOG generated varies by site based on the type of food being prepared, the cleaning and maintenance practices employed, and seating capacity. The City has also identified several high frequency maintenance sites within the collection system, many of which are to prevent FOG related SSOs.

The following sections define FOG, identify the sources, and summarize the results of a study of the City's FOG sources, SSO causes and general wastewater collection system observations.

### 2.1 Overview

The primary goal of a Characterization Study is to identify the source and nature of FOG within the City's wastewater collection system. Since the City has determined that the primary source of FOG within the wastewater collection system is generated from FSEs, the study served to compile and categorize information pertaining to the City's wastewater collection system as it relates to FOG. By identifying and locating the sources of FOG in the wastewater collection system, FOG build-up in the system can be controlled and reduced, thereby increasing the system operating efficiency and reducing the number of sewer line blockages and overflows. The objectives of the characterization study may be summarized as:

- Compile and categorize information;
- Identify existing FOG sources;
- Identify the high frequency maintenance sites due to FOG;
- Identify areas potentially susceptible to excessive FOG accumulation; and
- Identify areas within the collection system at which SSOs have occurred due to excessive FOG.

# FOG Characterization Study

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## 2.2 FOG Defined

Residual FOG is primarily a by-product from food preparation in residential buildings, and more commonly, FSEs. Typically, FOG enters a facility's plumbing system from ware washing, floor cleaning, and equipment sanitation. Wastewater collection systems are neither designed nor equipped to handle the FOG that can accumulate on the interior of the sewer collection system pipes from improper discharges. These accumulations restrict flow in pipes and can eventually result in SSOs. The unintentional overflow of untreated sewage creates a health risk to the public, damages property, and pollutes our environment.

FOG comes in two basic forms with each being handled and processed in a different manner. One form of FOG is known in the industry as 'Yellow Grease'. Generally, yellow grease can be defined as the inedible and unadulterated FOG that is removed from food service kitchen operations. In most cases, yellow grease is placed in an enclosed container marked 'inedible' typically located outside of the food service establishment. Sources of yellow grease generated in food service kitchens are from bulk deep-frying operations and water/oil separator units usually associated with specific food preparation areas. The second form of FOG generated in the food service industry is the material recovered from grease traps, and is often designated in the FOG treatment industry as 'Brown Grease'. Brown grease is the general term used to describe the floatable FOG, settled solids and associated wastewater retained by grease traps. Unlike yellow grease, the majority of brown grease removed from grease traps have been contaminated by coming in contact with such agents as detergents and cleaning solutions used in food service kitchens. The major source of brown grease generated in food service kitchens is from the cleaning of equipment and utensils used in the preparation and serving of food.

## 2.3 FOG Sources

To locate the likely sources of FOG, PBS&J mapped each FSE using a Restaurant Master List provided by the City and last updated in 2004, which included the names and addresses of approximately 220 existing FSEs within the City. Included in Attachment A is a copy of the Restaurant Master List provided by the City.

The list of high frequency maintenance sites was provided by the City's Wastewater Maintenance Section. High frequency maintenance sites, which are routinely cleaned on a monthly basis, include areas with high FOG and root concentrations, areas where sewer pipelines have minimal slope, and locations that have been identified to have repetitive grease accumulation. PBS&J reviewed historical records pertaining to wastewater related emergency calls to determine potential causes of SSOs and identify additional locations of potential problem sites due to excessive FOG concentrations and/or accumulations.

## 2.4 Characterization Study Results

Mapping the information allows the City to visually identify areas with existing FOG concentrations and historical SSOs as well as identify areas susceptible to potential SSOs. Additionally, it helps to determine the potential impact of each FSE based on its proximity and relative location to high frequency maintenance sites or other potential FOG contributors. This information serves to help the City determine where its resources should be focused to

systematically and effectively implement its FOG Control Program to reduce overflows and operation problems in a cost effective manner.

Figure 2-1 (see insert), titled Food Service Establishments and High Frequency Maintenance Locations, illustrates the approximate location of each FSE for which the City has a record. Also shown on Figure 2-1 are the locations of the high frequency maintenance sites to show the spatial relationship between the FSEs and the high frequency maintenance sites. The table located in upper right corner describes the purpose for the high frequency maintenance site cleaning. Of the total 21 high frequency maintenance locations, sixteen (16) sites, or 76%, are due to excessive quantities of FOG.

As shown on Figure 2-1, large concentrations of FSEs are located along or adjacent to primary City streets including Holt Avenue, Garey Avenue, Arrow Highway, Temple Avenue, and Mission Boulevard. There are additional FSEs located throughout the City as well. Several of the high-frequency maintenance locations that are due to excessive grease are located in areas with a high concentration of FSEs and/or are downstream of FSEs.

Since the Restaurant Master List was last updated in 2004, it is probable that there are new businesses that have since received business licenses and other businesses that may no longer be in business or have had their name changed. The City should consider reviewing and updating the list and should confirm whether the FSEs are equipped with an approved type of grease control device.

**Wastewater Emergency Calls**

Historical records of the City’s Wastewater Emergency Calls were reviewed to determine the types of calls received and responded to by the Wastewater Maintenance crews. This list includes information from January 1999 through April 2007. Table 2-1 summarizes the emergency calls, a complete list of which is included in Attachment B. Table 2-1 includes a summary of the calls received as they relate to SSOs.

**Table 2-1  
Summary of Wastewater Emergency Calls**

| <b>SSO Emergency Calls</b> | <b>No. of Emergency Calls</b> |
|----------------------------|-------------------------------|
| Reportable SSOs            | 11                            |
| Non-Reportable SSOs        | 41                            |
| Others                     | 512                           |
| <b>Total</b>               | <b>564</b>                    |

The emergency calls, included in the “Others” category, consist of calls that are in response to issues other than SSOs. The calls are generally related to the City’s wastewater collection system, residential laterals, and a few miscellaneous types of problems. Table 2-2 includes a summary of the calls received by the Wastewater Maintenance Section that are not due to SSOs.

**Table 2-2  
Non SSO Related Wastewater Emergency Calls**

| <b>Non SSO Related Emergency Calls</b>    | <b>No. of Emergency Calls</b> |
|---|-------------------------------|
| City Wastewater Collection System Related | 352                           |
| Residential Lateral Related               | 133                           |
| Miscellaneous                             | 27                            |
| <b>Total</b>                              | <b>512</b>                    |

The locations of the SSOs were superimposed onto the information included in Figure 2-1. Figure 2-2 (see insert), titled City of Pomona SSOs, illustrates the locations of the reportable and non-reportable SSOs that have occurred in the City per the City's Wastewater Emergency Calls list relative to the locations of FSEs and the high frequency maintenance locations.

According to the City's Wastewater Emergency Calls list, the eleven (11) Reportable SSOs shown on Figure 2-1 occurred between June 1999 and September 2004. Though there have not been recent reportable SSOs, a few of the SSOs that have occurred were located in the vicinity and downstream of areas with a high concentration of FSEs. Additionally, the SSOs occurred at what are currently designated high frequency maintenance locations.

Non-reportable SSOs have occurred from June 1999 through April 2007. According to the City's Wastewater Emergency Calls list there have been a total of forty-one (41) non reportable type of SSOs. The Non-Reportable SSOs shown on Figure 2-1 occurred along the City's wastewater collection system and appear to have been primarily in residential areas. However, several of the SSOs occurred in the vicinity and downstream of areas with a high concentration of FSEs. Additionally, the SSOs occurred at locations currently designated high frequency maintenance locations.

Although the City's proactive maintenance procedures have been successful in minimizing the number of SSOs the City will benefit from implementing a FOG Control Program. A FOG Control Program will serve to preemptively reduce FOG related SSOs by preventing the disposal of FOG into the City's wastewater collection system as well as reduce the occurrence of high frequency maintenance cleanings.



## Section 3

# FOG Control Program Recommendations

---

A FOG Control Program was developed as a preemptive measure to reduce FOG related SSOs. The FOG Control Program is intended to supplement, and be consistent with, existing operations and maintenance procedures. The comprehensive program will facilitate identification and coordination of necessary facilities and personnel in an organized and efficient manner to implement a FOG Control Program. It is recommended that City staff review the document closely and provide comments where clarification is required and improvements to the document can be introduced. All appropriate comments and other improvements will be incorporated into the final FOG Control Program.

Additionally, since a FOG Control Program must be tailored to accommodate the specific needs of the City, as the FOG Control Program evolves, the City should evaluate the program and its various components to determine any revisions necessary to further reduce the quantity of FOG being discharged into the sewer system. This section provides draft ordinances for the City to adopt for its FOG Control Program, recommendation on staffing, and a description of the initial efforts to implement a FOG Control Program.

### 3.1 Legal Authority

The Pomona City Code codifies the requirements for the installation, sizing, and maintenance for grease interceptors in Sections 62-471 through 62-477. However, to implement and enforce its FOG Control Program, the City must codify, within its code, the authority to implement and enforce its FOG Control Program. Below are recommended ordinances for the City to consider and adopt to establish this authority.

#### **Waste Disposal – Permit Required**

Facilities engaged in preparing food for consumption by the public desiring to discharge wastewater into a public sewer shall obtain a permit to discharge from the City Utility Services Director known as a Food Service Establishment Wastewater Discharge Permit.

#### **Food Service Establishment Waste Discharge Permit**

The Food Service Establishment Waste Discharge Permit may require pretreatment of wastewater prior to discharge, restriction of peak flow discharges, discharge of certain wastewater only to specified sewers of the City, relocation of point of discharge, prohibition of discharge to certain wastewater components, restrictions of discharge to certain hours of the day, payment of additional charges to defray increase costs of the City created by the wastewater discharge and such other conditions as may be required to effectuate the purpose of this ordinance. No person shall discharge industrial wastewater in excess of the quantity or quality limitations set by the Permit of Industrial Wastewater Discharge Permit and City ordinance.

# FOG Control Program Recommendations

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## Permit Application

Persons seeking a Food Service Establishment Waste Discharge Permit shall complete and file with the City Utility Services Director, an application in the form prescribed by the City Utility Services Director, and accompanied by the applicable fees. The applicant may be required to submit, in units and terms appropriate for evaluation, the following information:

- Name and address of applicant;
- Volume of wastewater to be discharged;
- Time of daily food preparation operations;
- Description of food preparation, type, number of meals served, cleanup procedures, dining room capacity, number of employees and size of kitchen; and/or
- Any other information as may be deemed by the City Utility Services Director to be necessary to evaluate the permit application. The City Utility Services Director will evaluate the data furnished by the applicant and may require additional information. After evaluation and acceptance of the data furnished, an on-site inspection of the waste discharge system, treatment systems, or other system relating to the waste discharge may be required. The City Utility Services Director may then issue a Food Service Establishment Waste Discharge Permit subject to terms and conditions provided.

## Duration of Permit

A Food Service Establishment Waste Discharge Permit shall be issued for a specified time period, not to exceed one (1) year. A permit may be issued for a period less than one (1) year or may be stated to expire on a specific date. If the FSE is not notified by the City thirty (30) days prior to the expiration of the permit, the permit shall be extended one (1) additional year. The terms and conditions of the permit may be subject to modifications and changed by the City during the life of the permit as limitations or requirements are deemed necessary by the City Utility Services Director. The FSE owner shall be informed of any proposed changes in his permit at least thirty (30) days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.

## Transfer of Permit

Food Service Establishment Waste Discharge Permits shall be issued only for a specific use or a specific operation. Any sale, lease, transfer or assignment of the premises or operation for which the permit was issued shall require a new permit to be issued. Any new or changed conditions of operation shall require a new permit to be issued.

## FOG Control Program Recommendations

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### Revocation of Waste Discharge Permit

The City Utility Services Director may revoke the permit of any FSE who is found to be in violation of this ordinance or who:

- Fails to comply with the conditions of the Food Service Establishment Waste Discharge Permit;
- Fails to install required grease pretreatment devices as required by the Food Service Establishment Waste Discharge Permit;
- Fails to comply with the reporting and/or pretreatment requirements or pretreatment device maintenance as required by the Food Service Establishment Waste Discharge Permit;
- Fails to comply with a Notice of Violation or a Compliance Schedule Agreement issued to require compliance with a Food Service Establishment Waste Discharge Permit or other provision of the City's codes;
- Knowingly provides a false Food Service Establishment Waste Discharge Permit application or makes false representations, or submits false documents, reports or logs to the City Utility Services Director or the Director's designee;
- Refuses to allow inspections during normal business hours or after hours if emergency conditions exist (overflow or suspected overflow);
- Interferes with the City Utility Services Director or the Director's designee during the FSE inspection or in sampling a FSEs discharge or in inspecting and sampling an overflow event; and/or
- Causes or contributes to sewer blockages or sewer overflows within the public sewer, or fails to address the conditions leading to more than one (1) overflow event from a private system within a twelve (12) month period.

### Maintenance Reports

The City Utility Services Director or Director's designee shall require the FSE to keep records of grease pretreatment device cleaning, maintenance and grease removal and to report on such maintenance to the City permit administration. The City Utility Services Director may require the FSE to provide results of periodic measurements of its discharge which is to include chemical analysis of oil and grease content. FSE owners or designees shall allow the City or its representative ready access at all reasonable times to all parts of the premises for purposes of sampling and inspections.

# FOG Control Program Recommendations

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## Penalty for Violation and Civil Liability

### a) Injunction

Whenever a discharge of wastewater in any manner in violation of this ordinance or of any order issued by the City Utility Services Director as authorized by this ordinance is hereby declared a public nuisance and shall be corrected or abated as directed by the City Utility Services Director. Any person creating such a public nuisance is guilty of a misdemeanor.

### b) Falsifying of Information

Any person who knowingly makes any false statements, representation, record, report, plan or other document filed with the City Utility Services Director or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this ordinance, shall be guilty of a misdemeanor.

### c) Termination of Service

The City may revoke any Food Service Establishment Waste Discharge Permit issued or terminate or cause to be terminated any wastewater service to any premise if a violation of any provision of this ordinance is found to exist or if a discharge of wastewater causes or threatens to cause a condition of contamination, pollution or nuisance. This provision is in addition to other statutes or rules authorizing termination of service for delinquency in payment.

When deemed necessary by the City Utility Services Director for the preservation of public health or safety or for the protection of public or private property, he/she may suspend sewer service to any person or persons using the wastewater collection system in a manner or way to endanger the public health or safety, or public or private property. In suspending service he/she may serve all pertinent connections to the public sewer. If such endangerment shall be imminent, the City Utility Services Director may act immediately to suspend sewer service without notice or warning to said person or persons.

## Notice and Appeal Procedures

Unless otherwise provided herein, any notice required to be given by the City Utility Services Director under this ordinance shall be in writing and served in person or by registered or certified mail. If served by mail, the notice shall be sent to the last address known to the City Utility Services Director. Where the address is unknown, service may be made upon the owner of record of the property involved.

Notice shall be deemed to have been given at the time of deposit, postage prepaid, in a facility regularly serviced by the United States Postal Service.

Any person found to be violating any provision of this ordinance shall be served by the City Utility Services Director with written notice stating the nature of the violation. Within ten

(10) days after the date of the notice, unless a longer time is necessary due to the nature of the violation, a plan for the satisfactory correction thereof shall be submitted to the City Utility Services Director. If the violation is not corrected by timely compliance, or a satisfactory correction plan submitted within the specified time, the City Utility Services Director may order any person to show cause before the City Utility Services Director why enforcement action should not be taken. A written notice shall be served on the person specifying the time and place of a hearing, the reason why the action is to be taken, and the proposed enforcement action. The City Utility Services Director may propose any enforcement action reasonably necessary to abate the violation. Based upon the evidence presented at the hearing, the City Utility Services Director shall determine the appropriate enforcement action which should be taken, if any.

### **3.2 Staffing**

Administration, implementation, and enforcement of a FOG Control Program may require adding additional staff to specifically manage and implement the various elements of the FOG Control Program. It is recommended that the City identify the department and the staff that will be responsible for implementing and enforcing the FOG Control Program, evaluating its effectiveness, and coordinating necessary improvements to the program over time.

The following provides information regarding areas in which additional staff may be necessary.

#### **3.2.1 Initial Implementation**

The City should consider performing an inspection of each of the FSEs to document information specific to each facility. The results of the initial inspection will establish a basis from which the City can begin tracking and monitoring the condition of the critical elements necessary for controlling the FOG discharged into the wastewater collection system. The inspection of the facility may include interviews with FSE staff, a general review and evaluation of the facility, examination of grease removal equipment, an external check for storm water pollution sources, and maintenance records related to the specific grease removal device. It will be necessary to document inspection and enforcement information, dates that inspections were performed, violations identified, and follow up actions required and implemented for each FSE. Based on the results of the initial inspection, the City can determine if the FSE is in compliance with the conditions of the Waste Discharge Permit or if additional provisions will be required to bring the FSE into compliance with the FOG Control Program and City established policies. If it is determined that a FSE is in violation, a notice of violation, conditional permit or permit revocation may be issued based on the severity of the violation.

#### **3.2.2 Permitting Process and Procedure**

Permits are a common regulatory control method since they include a summary of the conditions and requirements for the FSE. They also provide a concise, uniform, and legal framework for operating the FOG Control Program. The FOG Control Program requires FSEs that generate waste containing FOG obtain a Food Service Establishment Waste Discharge Permit, meet the requirements for installation of approved FOG removal devices, and comply

## **FOG Control Program Recommendations**

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with City Codes. Currently all permits are administered by the City's Public Works Department. Since the FOG Control Program will be a newly established program, the City is considering establishing the FOG Control Program within the Utility Services Department, which will be responsible for administering the permitting process to control and regulate the Food Service Establishment Waste Discharge Permits.

### **3.2.3 Construction Plan Reviews**

The City currently performs the review of plans for new and remodeled FSEs and establishes the minimum requirements that each FSE must comply with and meet prior to receiving the necessary permits. Implementation of the FOG Control Program will require that a review process be developed for new and/or remodeled FSEs to determine compliance with the provisions included in the FOG Program and any newly adopted FOG related ordinances. Plan submittal review may include, but not be limited to, review for compliance with the provisions included in the FOG Control Program, compliance with the City's codes, appropriate sizing of FOG control devices, and compliance with the Food Service Establishment Waste Discharge Permit. Additionally, inspection of each FSE should be performed to verify compliance with the conditions of the Food Service Establishment Waste Discharge Permit. The City should consider the level of staffing that will be required to perform the necessary level of review and inspections.

### **3.2.4 Enforcement and Monitoring of the FOG Program**

The discharge of FOG to the wastewater collection system from FSEs can be controlled through effective enforcement of the FOG Control Program. This will require that the City identify staff, add staff, or contract for services to:

- Perform inspections of FSEs to ensure that BMPs are properly implemented and that grease traps/interceptors, when applicable as a pretreatment method to reduce FOG from the wastewater prior to discharging into the collection system, are properly installed and maintained;
- Monitor compliance through routine inspection of FSEs, and monitor compliance with Waste Discharge Permit requirements and maintenance requirements for grease interceptors;
- Monitor, evaluate, and screen inspection results to identify violations and issue appropriate notices of violation;
- Implement consistent and timely responses to all types of violations to ensure long-term compliance;
- Maintain appropriate documentation and records of FSEs, inspections performed, violations issues, and resolution of issues with FSEs; and

## FOG Control Program Recommendations

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- Oversee and implement efforts to educate the public and FSEs on effective ways to reduce and eliminate FOG from entering the wastewater collection system.

PBS&J will work closely with City staff to identify the job descriptions and duties of personnel needed to implement the final adopted FOG Control Program.

### 3.3 Funding a FOG Program

The City of Pomona completed its last Sewer Utility Cost-of-Service Study in August 2006. This study established a bi-monthly fixed charge on a per user basis and a uniform commodity charge. The *Final Report, Water and Sewer Utility Cost of Service Rate Study*, dated August 29, 2006 and prepared by Foresight Consulting Services, states:

The basic cost allocations for the sewer utility are summarized in the following table by functional category. Notice that the biochemical oxygen demand (BOD) and suspended solids (TSS) functional categories have zeros all the way down their columns. This is because the City does not provide treatment services, only collection services, and therefore no portion of the revenue requirements was allocated to treatment functions (i.e. BOD and TSS).

This is an accurate statement. However, the consultant's analysis did not take into account that FSEs produce a higher concentration of FOG. Many collection system agencies, such as the City of Pomona, are looking to recover their FOG related expenses which include program administration, as well as operational and capital expenses associated with the impacts on the wastewater collection system, through a system of FOG fees and rates. It is a common policy for government-owned utilities to recover costs **directly** from the customer causing the cost to be incurred. A FOG program normally has two rate components including FOG Permit Fees and FOG User Rates.

An annual FOG permit fee is based on the estimated cost of annual program administration including FSE inspections. FOG permit fees can be developed in several different ways. The first alternative is to establish a "one size fits all" permit fee which is consistent with the rate methodology used to establish the City's bi-monthly sewer service charge.

The second alternative is to establish a standard fee schedule based on the water meter or connection size. This is similar to the rate methodology used to determine the City's bi-monthly water service charge. The conceptual basis for this is that an FSE with a 5/8" water meter such as a small deli will have less FOG effects than a larger restaurant with a 1" meter.

A third alternative is to develop customized charges based on site-specific costs such as labor and equipment usage as discussed below. This could include a cost differential based on the number of miles from the City's utility operations yard, the extent of the inspection, the frequency of the inspection, and so on.

The costs usually recovered through a FOG permit fee program include:

## FOG Control Program Recommendations

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- **Labor costs.** Typically, estimated hourly labor costs are forecast based on expected salaries for program administration and inspection. Total labor costs are based on estimated hourly salaries in conjunction with expected hours of labor by class.
- **Equipment costs.** Equipment costs can be developed based on accounting data, including purchase cost, depreciation and maintenance records for vehicles and equipment used. The average cost of renting similar equipment is sometimes used for these estimates. An example of appropriate equipment cost recovery is based on an amount per mile for service trucks used for inspections.
- **Indirect costs.** Indirect costs should also be factored into the development of appropriate FOG permit fees. These costs are not directly attributed to one specific cost center and generally include, but are not limited to, such overhead items as supervisory salaries, administrative supplies, and employee fringe benefits. Typically, an indirect cost multiplier, obtained by relating the indirect costs as a percentage of direct costs, is used to establish a “fully loaded” cost and then is applied to labor and equipment.

### 3.3.1 FOG User Rates

The City performs cleaning of sewer mains as part of a preventative maintenance program to avoid SSOs. In addition to regular sewer main cleaning, the City sewer crews must perform what is termed “extra-ordinary” cleaning on parts of the collection system because of fats, oils, and grease discharged by FSEs. The annual cost for the FOG cleaning program should be recovered from FSEs not from the average resident or commercial customer of the City’s collection system.

To determine a FOG User Rate the City of Pomona must complete two (2) tasks. First, an inventory of all FSE’s must be performed and the annual water usage for their accounts must be determined on an individual basis. For instance when the City of La Habra Heights originally put together its program, field inspections produced the names and address of 141 FSEs. The City researched and obtained the water account numbers for each of the FSEs that had an individual water meter. Using account numbers, the FSEs were sorted into bins of average monthly consumption. This analysis determined that the 141 FSEs had an annual consumption of 123,440 HCF.

The second task is to determine the annual cost for the FOG cleaning program. When the City of La Habra Heights performed this task they determined that the cost associated with the FOG cleaning program for FY2006 was approximately \$123,580. When divided by the total flow, the cost for the additional cleaning program was determined to be \$1.00 per hundred cubic feet (HCF). ( $\$123,580/123,440$  HCF). This \$1.00 per HCF was added to the regular volume charge to recover the costs associated with the FOG program from FSEs.

The methodology used to calculate FOG rates is very similar to the methodology used to calculate sewer user charges for wastewater treatment. The FSEs are categorized according to their waste strength. Table 3-1 defines each user group according to BOD and TSS waste loads:



## FOG Control Program Recommendations

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**Table 3-1  
User Group Waste Strength**

| <b>User Group</b> | <b>BOD Load (mg/l)</b> | <b>SS (mg/l)</b> | <b>Combined</b> | <b>%</b> |
|-------------------|------------------------|------------------|-----------------|----------|
| FOG Rate          | 400                    | 400              | 800             | 0        |
| Penalty I         | 1000                   | 800              | 1800            | 2.25     |
| Penalty II        | 2200                   | 1500             | 3700            | 4.63     |

All FSEs that are following best management practices are charged at the FOG rate and the full cost of the FOG program is recovered by this fee (e.g. \$1.00 per HCF as determined by the City of La Habra Heights). Best Management practices assumes the FSE has a grease trap and/or a grease interceptor and maintains it and thus is discharging less fats, oils, and grease to the wastewater collection system than is determined by EPA/State Water Resources Control Board standards for a restaurant (1000 mg/l BOD/800 mg/l TSS). An FSE is charged the Penalty I rate if they are not properly maintaining its grease trap. The penalty rate can be either for a certain period of time, perhaps for one year, or until the FSE comes back into compliance with its permit. Penalty II rates are reserved for chronic offenders or an FSE that causes a back-up or SSO. Once again the timing is discretionary.

Due to the strengths involved, as shown on Table 3-1, the Penalty I Rate is 2.25 times the FOG rate, and the Penalty II is 4.63 times the FOG rate. The City would receive additional revenue should it charge the Penalty I or II rates.

Additionally, fines and penalties are recommended to be incorporated into the City's FOG Ordinance to insure compliance by the FSEs.

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**Attachment A**  
**City of Pomona Restaurant Master List**

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## City of Pomona Restaurant Master List

| Business Name                | Business Address       | City             | Description                   | Business Phone | Grease Trap Permit | Permit on File | Notes              |
|------------------------------|------------------------|------------------|-------------------------------|----------------|--------------------|----------------|--------------------|
| Aladdin Jr.                  | 3161 N. Garey Ave.     | Pomona, CA 91767 | Restaurant                    | (909) 593-3887 |                    | No             |                    |
| Albertos Mexican Food        | 2068 N. Garey Ave.     | Pomona, CA 91767 | Fast Food                     | (909) 392-3337 |                    | No             |                    |
| Angelo's Burgers #3          | 902 W. Mission Blvd.   | Pomona, CA 91766 | Fast Food Restaurant          | (909) 865-1408 |                    | No             |                    |
| Arby's Roast Beef Restaurant | 2250 N. Garey Ave.     | Pomona, CA 91767 | Fast Food Restaurant          | (909) 596-1644 |                    | No             |                    |
| Bamboo Express               | 794 E. Mission Blvd.   | Pomona, CA 91766 | Fast Food Restaurant          | (909) 865-1589 |                    | No             |                    |
| Bell Burger                  | 1495 W. Holt Ave.      | Pomona, CA 91768 | Hamburger Restaurant          | (909) 620-9888 |                    | -              |                    |
| Birrieria Jalisco            | 941 E. Mission Blvd.   | Pomona, CA 91766 | Restaurant                    | (909) 629-6262 |                    | No             |                    |
| Birrieria Jalisco #2         | 990 E. Holt Ave.       | Pomona, CA 91767 | Restaurant-Mexican Food       | (909) 397-9015 |                    | -              |                    |
| La Pie dad#2                 | 418 E. Mission Blvd.   | Pomona, CA 91766 | Restaurant                    |                | NO                 | -              |                    |
| Brasserie Astuce             | 510 E. Foothill Blvd.  | Pomona, CA 91767 | Restaurant                    | (909) 621-4954 |                    | No             |                    |
| Bravo Burgers                | 1215 N. White Ave.     | Pomona, CA 91768 | Fast Food Restaurant          | (909) 622-0855 |                    | No             |                    |
| Buen Taco                    | 1526 W. Mission Blvd.  | Pomona, CA 91766 | Fast Food Restaurant          | (909) 622-2483 |                    | No             |                    |
| Burger King # 2309           | 517 E. Foothill Blvd.  | Pomona, CA 91767 | Fast Food Restaurant          | (909) 624-2666 |                    | No             |                    |
| Burger King # 4987           | 2101 S. Garey Ave.     | Pomona, CA 91766 | Fast Food Restaurant          | (909) 628-6658 |                    | -              |                    |
| Burger King # 6042           | 2085 W. Holt Ave.      | Pomona, CA 91768 | Fast Food Restaurant          | (909) 620-7206 |                    | No             |                    |
| Burger King # 8564           | 1911 Indian Hill Blvd. | Pomona, CA 91767 | Fast Food Restaurant          | (626)792-5577  | Yes                | Yes            |                    |
| C & C Concessions Inc        | 1101 W. McKinley Ave.  | Pomona, CA 91768 | Food Concession at Fair       | (909) 620-8248 |                    | No             |                    |
| Café 171                     | 171 W. Second St.      | Pomona, CA 91766 | Restaurant                    | (909) 868-9556 |                    | -              |                    |
| Cantina Express              | 3530 Temple Ave. A & B | Pomona, CA 91768 | Mexican Fast Food             | (909) 468-0147 |                    |                |                    |
| Captain's Seafood            | 994 E. Holt Ave.       | Pomona, CA 91767 | Seafood Restaurant            | (909) 629-3474 |                    | No             |                    |
| Carl's Jr Restaurant #387    | 140 E. Foothill Blvd.  | Pomona, CA 91767 | Fast Food Retail              | (909) 392-7343 |                    | No             |                    |
| Carl's Jr Restaurant #588    | 3395 Pomona Blvd.      | Pomona, CA 91768 | Fast Food Restaurant          | (909) 598-9865 | Yes                | Yes            |                    |
| Carl's Jr. Carl Karcher #80  | 1755 Indian Hill Blvd. | Pomona, CA 91767 | Drive-In Restaurant           | (909) 626-2122 |                    | No             |                    |
| Carrow's #927                | 401 E. Foothill Blvd.  | Pomona, CA 91767 | Restaurant                    | (909) 624-8470 |                    | No             |                    |
| Casa Cortez Restaurant       | 937 W. Holt Ave. B     | Pomona, CA 91768 | Restaurant                    | (909) 622-4355 |                    | -              |                    |
| Casa Jimenez                 | 3272 N. Garey Ave.     | Pomona, CA 91767 | Restaurant                    | (909) 596-1154 |                    | No             |                    |
| Casa Jimenez Grill           | 6 Village Loop Rd. A&B | Pomona, CA 91766 | Restaurant                    | (909) 622-7787 |                    | No             |                    |
| Cassie's                     | 855 W. Holt Ave.       | Pomona, CA 91768 | Restaurant & Bar              | (909) 620-1367 |                    |                | File was out       |
| Chao's Café                  | 280 S. Locust St.      | Pomona, CA 91766 | Cafeteria                     | (909) 623-1733 |                    | -              |                    |
| China Express                | 475 W. Holt Ave.       | Pomona, CA 91768 | Chinese Fast Food             | (909) 629-7926 |                    | No             |                    |
| China Kitchen                | 8 Village Loop Rd. E   | Pomona, CA 91766 | Chinese Restaurant            | (909) 623-6788 |                    | -              |                    |
| China Wok                    | 674 Fairplex Dr.       | Pomona, CA 91768 | Chinese Fast Food Restaurant  | (909) 469-2001 |                    |                | File not available |
| China Wok Express            | 730 E. Arrow Highway   | Pomona, CA 91767 | Restaurant                    | (909) 399-9973 |                    | No             |                    |
| Chung King Restaurant        | 280 W. Third St.       | Pomona, CA 91766 | Restaurant                    | (909) 622-5057 |                    | -              |                    |
| Church's Chicken             | 500 E. Holt Ave        | Pomona, CA 91768 | Fast Food Restaurant          | ( )            | Yes                | Yes            |                    |
| Church's Chicken #466        | 1105 W. Mission Blvd.  | Pomona, CA 91766 | Fast Food Restaurant          | (909) 622-4477 |                    | No             |                    |
| Coppacabana                  | 1600 Fairplex Dr.      | Pomona, CA 91768 | Restaurant With Alcohol Sales | (626) 357-5051 |                    | -              |                    |
| Dahms, Robert                | 235 W. Second St.      | Pomona, CA 91766 | Restaurant, Entertainment     | (909) 629-4349 |                    | -              |                    |
| Dahms, Robert                | 261 S. Thomas St.      | Pomona, CA 91766 | Restaurant/Lounge             | (909) 629-4349 |                    | -              |                    |
| Del Taco, Inc. #893          | 1495 N. Garey Ave.     | Pomona, CA 91767 | Restaurant Quick Service      | (909) 622-0711 |                    | No             |                    |
| Delfin Seafood Restaurant    | 1395 W. Holt Ave.      | Pomona, CA 91768 | Restaurant                    | (909) 623-7362 |                    | No             |                    |
| Denny's Restaurant           | 1504 Gillette Rd.      | Pomona, CA 91768 | Full Service Restaurant       | (909) 623-5814 |                    | No             |                    |
| Denny's Restaurant #7581     | 3012 Temple Ave.       | Pomona, CA 91768 | Family Restaurant             | (909) 629-5997 | Yes                | Yes            |                    |
| Domino's Pizza               | 1285 S. Garey Ave. I   | Pomona, CA 91766 | Pizza Sales & Delivery        | (714) 622-0229 |                    | No             |                    |
| Donahoos Golden Chicken      | 1074 N. Garey Ave.     | Pomona, CA 91767 | Fast Food-Chicken To Go       | (909) 622-3213 |                    | No             |                    |
| El 7 Mares Family Restaurant | 1542 W. Holt Ave.      | Pomona, CA 91768 | Seafood & Mexican Restaurant  | (909) 629-5417 |                    | No             |                    |

## City of Pomona Restaurant Master List

| Business Name                     | Business Address         | City             | Description                    | Business Phone | Grease Trap Permit | Permit on File | Notes              |
|-----------------------------------|--------------------------|------------------|--------------------------------|----------------|--------------------|----------------|--------------------|
| El Amigazo                        | 1175 E. Holt Ave.        | Pomona, CA 91767 | Restaurant                     | (909) 623-0434 |                    | No             |                    |
| El Buen Busto                     | 360 N. Park Ave.         | Pomona, CA 91768 | Restaurant                     | (909) 629-4640 |                    | No             |                    |
| El Cabrito                        | 2055 S. Reservoir St. F  | Pomona, CA 91766 | Restaurant, No Alcohol Sales   | (909) 464-8190 |                    | No             |                    |
| El Merenderito                    | 1040 E. Holt Ave.        | Pomona, CA 91767 | Mexican Restaurant             | (909) 620-4978 |                    |                | File not available |
| El Penasco                        | 1084 W. Mission Blvd.    | Pomona, CA 91766 | Restaurant                     | (909) 620-4321 |                    | No             |                    |
| El Pollo Loco Inc. #5397          | 123 E. Holt Ave.         | Pomona, CA 91767 | Fast Food Restaurant           | (949) 399-2119 |                    | No             |                    |
| El Pollo Loco/Foster's Freeze     | 72 Rio Rancho Rd.        | Pomona, CA 91766 | Fast Food Restaurant           | (909) 623-6678 | Yes                | Yes            |                    |
| El Taco Nazo                      | 296 W. Second St.        | Pomona, CA 91766 | Restaurant                     | (909) 620-4510 |                    | -              |                    |
| El Taco Nazo                      | 320 E. Foothill Blvd.    | Pomona, CA 91767 | Mexican Restaurant             | (909) 593-9926 |                    | -              |                    |
| El Tapatio Restaurant & Nite Club | 1338 S. Garey Ave.       | Pomona, CA 91766 | Restaurant With Alcohol Sales  | (909) 623-3848 |                    | No             |                    |
| Pupuseria                         | 1308 S. Garey Ave.       | Pomona, CA 91766 | Restaurant                     |                | NO                 | -              |                    |
| El Zarape Mexican Food            | 1600 E. Holt Ave.        | Pomona, CA 91767 | Mexican Food @ Indoor Swapmeet | (909) 865-1413 |                    | No             |                    |
| Family Fish Fry Restaurant        | 580 E. La Verne Ave. A   | Pomona, CA 91767 | Restaurant                     | (909) 623-6430 |                    | -              |                    |
| Fancy's Donuts                    | 3503 Temple Ave. B       | Pomona, CA 91768 | Donut/Coffee Shop              | (909) 598-9092 | Yes                | Yes            |                    |
| School(PUSD)                      | 150 E. Third St.         | Pomona, CA 91766 | Food Vending                   |                | NO                 | -              |                    |
| Food Factory                      | 3220 Temple Ave.         | Pomona, CA 91768 | Food Delivery                  | (909) 468-0444 |                    | No             |                    |
| Food Systems Inc.                 | 901 Corporate Center Dr. | Pomona, CA 91768 | Cafeteria @ DeVry College      | (714) 994-2331 |                    | No             |                    |
| Friar Tuck's Bar & Grille         | 540 E. Foothill Blvd.    | Pomona, CA 91767 | Restaurant                     | (909) 625-7265 |                    | -              |                    |
| Sabor Mexicano                    | 180 E. Sixth St.         | Pomona, CA 91766 | Restaurant                     |                | NO                 | -              |                    |
| School(PUSD)                      | 1460 E. Holt Ave. 146    | Pomona, CA 91767 | Ice Cream/Soda/Coffee/Hot Dogs |                | NO                 | -              |                    |
| Golden Ox                         | 405 W. Holt Ave.         | Pomona, CA 91768 | Fast Food Restaurant           | (909) 623-4384 |                    | No             |                    |
| Golden Ox Burger                  | 770 E. Arrow Highway     | Pomona, CA 91767 | Restaurant/Fast Food/Burgers   | (909) 445-1112 | Yes                | Yes            |                    |
| Golden Ox Burger #3               | 1195 E. Mission Blvd.    | Pomona, CA 91766 | Fast Food Restaurant           | (909) 623-2013 |                    | No             |                    |
| Graziano's Pizza Restaurant       | 2 Village Loop Rd.       | Pomona, CA 91766 | Pizza Restaurant               | (909) 623-5060 | Yes                | Yes            |                    |
| Gus Jr. Restaurant, LLC           | 660 Indian Hill Blvd.    | Pomona, CA 91767 | Fast Food Restaurant-Dine In   | (909) 621-6632 | Yes                | Yes            |                    |
| Gusasalmex Restaurant             | 150 W. Holt Ave.         | Pomona, CA 91768 | Food Service (Restaurant)      | (909) 623-1107 |                    | No             |                    |
| Guy's Hot Dog's                   | 2707 S. Towne Ave.       | Pomona, CA 91766 | Hot Dog on Site @ Home Depot   | (626) 305-9116 |                    | No             |                    |
| Louisiana Fry Chicken             | 642 E. Holt Ave.         | Pomona, CA 91767 | Restaurant                     |                | NO                 | -              |                    |
| Hamburger House                   | 3109 N. Garey Ave.       | Pomona, CA 91767 | Fast Food Restaurant           | (909) 596-9630 |                    | No             |                    |
| Happy Wok                         | 3160 N. Garey Ave        | Pomona, CA 91768 | Fast Food Restaurant           | ( )            | Yes                | Yes            |                    |
| Hilltop Restaurant & Catering     | 3101 Temple Ave.         | Pomona, CA 91768 | Restaurant                     | (909) 594-3575 | Yes                | Yes            |                    |
| Home Kitchen Café                 | 309 E. Foothill Blvd.    | Pomona, CA 91767 | Coffee Shop-Food and Beverage  | (909) 392-4855 | Yes                | Yes            |                    |
| Home of Quality Burger            | 111 S. East End Ave.     | Pomona, CA 91766 | Restaurant                     | (909) 865-2855 |                    | No             |                    |
| Household Pomona                  | 931 Corporate Center Dr. | Pomona, CA 91768 | Food Service Management        | (909) 397-3612 |                    | No             |                    |
| In N Out Burger #33               | 2505 S. Garey Ave.       | Pomona, CA 91766 | Fast Food-Drive Thru           | (626) 813-8200 |                    | No             |                    |
| In N Out Burger Inc. #8           | 1851 Indian Hill Blvd.   | Pomona, CA 91767 | Restaurant/Drive-In            | (626) 813-8200 |                    | No             |                    |
| J B Burgers #5                    | 504 E. Foothill Blvd.    | Pomona, CA 91767 | Restaurant                     | (909) 621-7493 |                    | -              |                    |
| Jack In The Box #164              | 100 E. Holt Ave.         | Pomona, CA 91767 | Restaurant                     | (909)620-5896  |                    | No             |                    |
| Jack In The Box #197              | 101 W. Foothill Blvd.    | Pomona, CA 91767 | Fast Food Restaurant           | (909) 596-0029 |                    | No             |                    |
| Jack In The Box #3227             | 1670 W. Mission Blvd.    | Pomona, CA 91766 | Retail Restaurant              | (619) 571-2561 |                    | No             |                    |
| Jack In The Box #3320             | 2098 S. Garey Ave.       | Pomona, CA 91766 | Restaurant                     | (909) 313-0459 | Yes                | Yes            |                    |
| Jack In The Box #3380             | 2021 N. Towne Ave.       | Pomona, CA 91767 | Restaurant                     | (619) 571-2561 |                    | No             |                    |
| Jack In The Box #3547             | 2775 S. Reservoir St.    | Pomona, CA 91766 | Fast Food Restaurant           | (858) 571-2121 |                    | No             |                    |
| Jack In The Box #3587             | 1335 N. Dudley St.       | Pomona, CA 91768 | Restaurant                     | ( ) -          | Yes                | Yes            |                    |

### City of Pomona Restaurant Master List

| Business Name                   | Business Address          | City             | Description                      | Business Phone | Grease Trap Permit | Permit on File | Notes |
|---------------------------------|---------------------------|------------------|----------------------------------|----------------|--------------------|----------------|-------|
| Jalisco Restaurant              | 2256 S. Garey Ave.        | Pomona, CA 91766 | Restaurant                       | (909) 464-1958 |                    | -              |       |
| Joey's Bar-B-Q                  | 117 W. Second St.         | Pomona, CA 91766 | Barbecue Restaurant              | (909) 865-0699 |                    | No             |       |
| Johnny's Famous Hamburgers      | 2302 N. Garey Ave.        | Pomona, CA 91767 | Fast Food-Drive Thru             | (909) 593-2696 |                    | No             |       |
| JoJo's Pizza Kitchen            | 3560 Temple Ave. A&B      | Pomona, CA 91768 | Pizza Restaurant                 | (909) 444-9113 |                    | No             |       |
| Juan Pollo #44                  | 2233 N. Garey Ave.        | Pomona, CA 91767 | Fast Food/Rotisserie Chicken     | (909) 392-9794 |                    | No             |       |
| Juan Pollo Restaurant           | 300 S. Garey Ave.         | Pomona, CA 91766 | Fast Food Restaurant             | (909) 469-4779 |                    | No             |       |
| Juanita's Mexican Food          | 1735 Indian Hill Blvd.    | Pomona, CA 91767 | Fast Food                        | (909) 624-1272 |                    | No             |       |
| K & F Burger                    | 560 E. Holt Ave.          | Pomona, CA 91767 | Fast Food Restaurant             | (909) 623-1313 |                    | No             |       |
| Kasino Restaurant and Bar       | 1604 W. Mission Blvd.     | Pomona, CA 91766 | Restaurant and Bar               | (909) 620-4051 |                    | No             |       |
| Kentucky Fried Chicken          | 2294 N. Garey Ave.        | Pomona, CA 91767 | Fast Foods                       | (909) 593-2569 | Yes                |                |       |
| Kentucky Fried Chicken          | 375 E. Mission Blvd.      | Pomona, CA 91766 | Restaurant/Food-To-Go            | (909) 623-2549 |                    | No             |       |
| China Wok                       | 2266 S. Garey Ave.        | Pomona, CA 91766 | Chinese Food Restaurant          |                | NO                 | -              |       |
| Kwon's Restaurant               | 1625 W. Holt Ave.         | Pomona, CA 91768 | Restaurant                       | (909) 629-6888 |                    | No             |       |
| La Cabana                       | 305 E. Holt Ave.          | Pomona, CA 91767 | Restaurant                       | (909) 623-0586 |                    | -              |       |
| La Pizza Loca Inc. #34          | 937 W. Holt Ave.          | Pomona, CA 91768 | Fast Food/Pizza                  | (562) 862-4470 |                    | No             |       |
| Lily's Mexican Food             | 2128 N. Garey Ave.        | Pomona, CA 91767 | Fast Food Restaurant             |                | NO                 | -              |       |
| Linda's Tacos                   | 2128 N. Garey Ave.        | Pomona, CA 91767 | Fast Food Restaurant             | (909) 593-5674 |                    | -              |       |
| Little Cesars #5764             | 3084 Temple Ave.          | Pomona, CA 91768 | Pizza Restaurant/Take Out        | (313) 983-6000 |                    | No             |       |
| Los Jarritos                    | 246 S. Towne Ave.         | Pomona, CA 91766 | Restaurant                       | (909) 623-3888 |                    | No             |       |
| Los Jarritos II                 | 3191 N. Garey Ave.        | Pomona, CA 91767 | Restaurant                       | (909) 593-7012 |                    | No             |       |
| Los Portales Mexican Restaurant | 1190 E. Mission Blvd.     | Pomona, CA 91766 | Mexican Restaurant               | (909) 620-7988 |                    | No             |       |
| Nice Bunz                       | 1460 E. Holt Ave. 154     | Pomona, CA 91767 | Chinese Fast Food Restaurant     |                | NO                 | -              |       |
| Subway                          | 291 E. Second St.         | Pomona, CA 91766 | Restaurant                       |                | NO                 | -              |       |
| Golden Wok                      | 1725 N. Garey Ave.        | Pomona, CA 91767 | Fast Food/Donuts                 |                | NO                 | -              |       |
| Mando Restaurant                | 1430 W. Ninth St.         | Pomona, CA 91766 | Restaurant                       | (909) 623-8341 |                    | No             |       |
| Manna Donuts #101               | 2111 S. Garey Ave.        | Pomona, CA 91766 | Donut & Snack Shop + Cigarette   | (909) 364-0230 |                    | -              |       |
| Maria's Tacos                   | 2407 Valley Blvd. A4      | Pomona, CA 91768 | Mexican Food To Go Restaurant    | (909) 598-8797 |                    | No             |       |
| Mariscos Acapulco Restaurant    | 131 E. La Verne Ave. A    | Pomona, CA 91767 | Restaurant w/PD Conditions       | (909) 596-4141 |                    | -              |       |
| Mariscos Linda Restaurant       | 995 W. Mission Blvd.      | Pomona, CA 91766 | Restaurant                       | (909) 622-6844 |                    | No             |       |
| Mc Donald's of Pomona-Garey     | 2200 N. Garey Ave.        | Pomona, CA 91767 | Restaurant                       | (909) 596-5423 | Yes                | Yes            |       |
| Mc Donald's Restaurant          | 2145 Murchison Ave.       | Pomona, CA 91768 | Restaurant                       | (909) 620-6669 | Yes                | Yes            |       |
| Mc Donald's-Rio Ranchio Road    | 30 Rio Rancho Road        | Pomona, CA 91766 | Restaurant                       | (909) 621-1270 | Yes                | Yes            |       |
| Merendero Mexican Foods Inc.    | 301 S. Garey Ave.         | Pomona, CA 91766 | Restaurant                       | (714) 596-1195 |                    | No             |       |
| Mexico Lindo Restaurant         | 1060 S. Garey Ave.        | Pomona, CA 91766 | Restaurant                       | (909) 629-6042 |                    | No             |       |
| Mission Family Restaurant       | 888 W. Mission Blvd.      | Pomona, CA 91766 | Restaurant                       | (909) 629-6412 |                    | No             |       |
| Mix Bowl Café                   | 1520 Indian Hill Blvd.    | Pomona, CA 91767 | Restaurant                       | (909) 447-4401 |                    | No             |       |
| Mom's Donuts & Ice Cream        | 2055 S. Reservior St. B&C | Pomona, CA 91766 | Retail-Donuts, Coffee, Ice Cream | (909) 590-2681 |                    | -              |       |
| Mom's Grill                     | 669 Indian Hill Blvd.     | Pomona, CA 91767 | Restaurant                       | (909) 629-7883 |                    | -              |       |
| Mr. Pizza                       | 742 E. Holt Ave.          | Pomona, CA 91767 | Pizza-Fast Food Restaurant       | (909) 622-5317 |                    | -              |       |
| NBC Express                     | 1685 Indian Hill Blvd.    | Pomona, CA 91767 | Chinese Fast Food                | (909) 626-9616 |                    | No             |       |
| New York Delight                | 310 S. Thomas St.         | Pomona, CA 91766 | Restaurant/Bakery                | (866) 693-3548 |                    | No             |       |
| Nu China Express                | 753 E. Holt Ave.          | Pomona, CA 91767 | Restaurant Fast Food Chinese     | (909) 621-7483 |                    | No             |       |
| Omanas Tacos                    | 1050 W. Holt Ave.         | Pomona, CA 91768 | Fast Food Sale                   | (909) 865-3665 |                    | -              |       |
| Osaka Sushi                     | 3425 Pomona Blvd. I       | Pomona, CA 91768 | Japanese Restaurant              | (909) 595-1135 |                    | -              |       |
| Palm Lake Coffe Shop            | 1300 W. Phillips Blvd.    | Pomona, CA 91766 | Restaurant                       | (909) 629-2921 |                    | No             |       |
| Panda Kitchen                   | 8 Village Loop Rd.        | Pomona, CA 91766 | Chinese Fast Food Restaurant     | (909) 623-6788 |                    | -              |       |

## City of Pomona Restaurant Master List

| Business Name                | Business Address            | City             | Description                        | Business Phone | Grease Trap Permit | Permit on File | Notes              |
|------------------------------|-----------------------------|------------------|------------------------------------|----------------|--------------------|----------------|--------------------|
| Papa John's Pizza            | 101 E. Foothill Blvd. 35    | Pomona, CA 91767 | Pizza Restaurant & Takeout         | (909) 392-7272 |                    | No             |                    |
| Paraiso Del Mar              | 1925 W. Holt Ave.           | Pomona, CA 91768 | Seafood Restaurant                 | (909) 469-0406 |                    | -              |                    |
| Paris Sandwich               | 728 E. Mission Blvd.        | Pomona, CA 91766 | Sandwiches & Tortas                | (909) 623-3453 |                    | No             |                    |
| Pho 54 Restaurant            | 1280 E. Holt Ave.           | Pomona, CA 91767 | Beef Noodle Soup Restaurant        | (909) 397-0108 |                    | Yes            |                    |
| Pho Ha Vietnamese Restaurant | 695 Indian Hill Blvd.       | Pomona, CA 91767 | Vietnamese Restaurant              | (909) 622-7578 |                    | No             |                    |
| Pizza Al Gusto               | 2407 Valley Blvd. A6        | Pomona, CA 91768 | Pizza Restaurant                   | (909) 839-1952 |                    | -              |                    |
| Pizza for Less               | 3131 N. Garey Ave.          | Pomona, CA 91767 | Pizza Palor                        | (909) 596-6666 |                    | -              |                    |
| Pizza Hut Delivery #705623   | 2301 N. Garey Ave.          | Pomona, CA 91767 | Pizza Delivery & Carry Out         | (909) 593-2000 |                    | No             |                    |
| Pizza Hut Delivery #705633   | 2218 S. Garey Ave.          | Pomona, CA 91766 | Pizza Delivery & Carry Out         | (714) 465-9200 |                    | No             |                    |
| Pizza Man                    | 2880 N. Garey Ave. C        | Pomona, CA 91767 | Pizza Restaurant-Food Srvc         | (909) 392-4400 |                    | No             |                    |
| Pizza Pirates                | 2255 S Garey Ave. 116       | Pomona, CA 91766 | Pizza Restaurant                   | (909) 590-1700 |                    | No             |                    |
| Pomona Valley Mining Co.     | 1777 Gillette Rd.           | Pomona, CA 91768 | Restaurant & Cocktail Lounge       | (909) 623-3515 |                    |                | No file exists     |
| Popeyes Chicken              | 705 E. Holt Ave.            | Pomona, CA 91767 | Chicken Take Out                   | (909) 622-6250 |                    | No             |                    |
| School(PUSD)                 | 1515 E. Holt Ave.           | Pomona, CA 91767 | Restaurant                         |                | NO                 | -              |                    |
| Pulgas Pandas                | 2204 S. Garey Ave.          | Pomona, Ca 91766 | Restaurant                         | (909) 591-8891 |                    | -              |                    |
| Red Hill Pizza               | 135 E. Second St.           | Pomona, CA 91766 | Restaurant                         | (909) 623-8893 |                    | -              |                    |
| Rice Noodles Soup            | 3900 Valley Blvd A          | Pomona, CA 91768 | Restaurant                         | (909) 444-9308 |                    | -              |                    |
| Rodeo Restaurant             | 700 E. Arrow Hwy            | Pomona, CA 91768 | Restaurant                         | ( )            | Yes                | Yes            |                    |
| Ruby's Snack Bar             | 1600 E. Holt Ave.<br>H18J33 | Pomona, CA 91767 | Snack Bar                          | ( ) -          |                    | No             |                    |
| Ruen Pair Thai Café          | 945 E. Holt Ave. F          | Pomona, CA 91767 | Thai Restaurant                    | (909) 397-5706 |                    | -              |                    |
| Sahara Café                  | 12 Village Loop Rd. A       | Pomona, CA 91766 | Restaurant, No Alcohol Sales       | (909) 397-5100 |                    | No             |                    |
| Samos                        | 1701 S. Garey Ave.          | Pomona, CA 91766 | Restaurant                         | (909) 623-8382 |                    | No             |                    |
| Sanamluang Café              | 1648 Indian Hill Blvd. C    | Pomona, CA 91767 | Restaurant                         | (909) 621-0904 |                    | No             |                    |
| Schambers, Scott Snack Shop  | 400 Civic Center Plaza      | Pomona, CA 91766 | Snack Shop                         | (909) 622-6104 |                    | -              |                    |
| Score Board America's        | 3220 Temple Ave.            | Pomona, CA 91768 | Restaurant                         | (909) 468-0444 |                    | No             |                    |
| Shangrila Chinese Cuisine    | 3520 Temple Ave.            | Pomona, CA 91768 | Chinese Restaurant                 | (909) 595-8867 |                    | -              |                    |
| Sizzler International Inc.   | 2282 N. Garey Ave.          | Pomona, CA 91767 | Restaurant                         | (909) 593-1439 |                    | No             |                    |
| Sofia's Mexican Food Inc.    | 1100 E. Holt Ave.           | Pomona, CA 91767 | Tortilla Manufacturer & Restaurant | (626) 444-9727 |                    | -              |                    |
| Subway                       | 1798 N. Garey Ave.          | Pomona, CA 91768 | Sandwich Shop                      | ( )            | Yes                | Yes            |                    |
| Subway                       | 291 E. Second St.           | Pomona, CA 91766 | Restaurant                         | (909) 622-3408 |                    | No             |                    |
| Subway                       | 3530 Temple Ave. C          | Pomona, CA 91768 | Fast Food                          | (909) 598-9474 |                    | No             |                    |
| Subway                       | 68 Rio Rancho               | Pomona, CA 91768 | Sandwich Shop                      | ( )            | Yes                | Yes            |                    |
| Subway                       | 1636 W. Misssion Blvd       | Pomona, CA 91768 | Sandwich Shop                      | ( )            | Yes                | Yes            |                    |
| Subway #22477                | 101 E. Foothill Blvd. 37    | Pomona, CA 91767 | Fast Food Sandwich Shop            | (909) 593-1250 |                    | No             |                    |
| Subway #26399                | 2112 S. Garey Ave. E        | Pomona, CA 91766 | Sandwich Shop                      | (909) 627-0502 |                    | No             |                    |
| Sunrize Donut & Burger       | 2517 N. Towne Ave.          | Pomona, CA 91767 | Restaurant                         | (909) 625-3152 |                    | No             |                    |
| Super China Buffet           | 221 W. Holt Ave.            | Pomona, CA 91768 | Buffet Restaurant                  | (909) 868-5268 | Yes                |                |                    |
| T M Chinese Fast Food        | 2031 S. Garey Ave.<br>D4&D5 | Pomona, CA 91766 | Restaurant                         | (909) 517-1570 |                    |                | File not available |
| Taco Bell #188               | 405 E. Mission Blvd.        | Pomona, CA 91766 | Fast Food Restaurant               | (949) 858-9191 |                    | No             |                    |
| Taco Bell #24                | 2204 N. Garey Ave.          | Pomona, CA 91767 | Mexican Fast Food                  | (949) 858-9191 |                    | No             |                    |
| Taco Bell #3149              | 690 Indian Hill Blvd.       | Pomona, CA 91767 | Fast Food Restaurant               | (310) 203-8404 |                    | No             |                    |
| Tacos El Cunado              | 580 E. La Verne Ave. A      | Pomona, CA 91767 | Restaurant                         | ( ) -          |                    | -              |                    |
| Tacos Jalisco                | 595 W. Mission Blvd.        | Pomona, CA 91766 | Restaurant                         | (909) 629-8014 |                    | No             |                    |
| Tacos La Jicama              | 1076 W. Phillips Blvd.      | Pomona, CA 91766 | Taco Restaurant                    | (909) 620-7040 |                    | No             |                    |
| Tacos Mariscos Casa Perez    | 987 S. Garey Ave            | Pomona, CA 91766 | Restaurant With Alcohol Sales      | (909) 620-1318 |                    | -              |                    |



## City of Pomona Restaurant Master List

| Business Name                  | Business Address             | City             | Description                        | Business Phone | Grease Trap Permit | Permit on File | Notes             |
|--------------------------------|------------------------------|------------------|------------------------------------|----------------|--------------------|----------------|-------------------|
| Tacos Mexico Lopez             | 1300 E. Holt Ave.            | Pomona, CA 91767 | Restaurant                         | (909) 623-7467 |                    | -              |                   |
| Tacos Mexico Naranjo #1        | 2298 S. Garey Ave.           | Pomona, CA 91766 | Restaurant                         | (909) 591-5395 |                    | No             |                   |
| Tacos La Poblanita             | 877 E. Mission Blvd.         | Pomona, CA 91766 | Restaurant                         |                | NO                 | -              |                   |
| Tacos Y Mariscos Jalisco       | 1610 W. Mission Blvd.        | Pomona, CA 91766 | Restaurant                         | (909) 868-7281 |                    | No             |                   |
| Taqueria El Patio              | 864 W. Holt Ave.             | Pomona, CA 91768 | Restaurant, No Alcohol Sales       | (909) 622-9580 |                    | No             |                   |
| Taqueria El Rinconcito         | 1600 E. Holt Ave. H1         | Pomona, CA 91767 | Food Bar                           | (909) 865-2399 |                    | No             |                   |
| Taqueria El Triunfo            | 1565 W. Holt Ave. 9          | Pomona, CA 91768 | Restaurant-Fast Food               | (909) 620-6632 |                    | No             |                   |
| Taqueria Guadalupana           | 820 E. Mission Blvd.         | Pomona, CA 91766 | Mexican Restaurant                 | (909) 629-3131 |                    | No             |                   |
| Taqueria Santa Cruz            | 1285 S. Garey Ave. E         | Pomona, CA 91766 | Restaurant                         | (909) 622-5339 |                    | No             |                   |
| Taranto's Italian Mexican Deli | 1622 W. Mission Blvd.        | Pomona, CA 91766 | Restaurant                         | (909) 865-8666 |                    | -              |                   |
| TCBY Yogurt                    | 291 E. Second St.            | Pomona, CA 91766 | Restaurant                         | (909) 622-3408 |                    | -              |                   |
| Tea Break Corporation          | 3560 Temple Ave. C-D19       | Pomona, CA 91768 | Fast Food Restaurant               | (909) 468-3008 |                    | -              |                   |
| Thai Orchid Garden Restaurant  | 315 E. Foothill Blvd.        | Pomona, CA 91767 | Thai Restaurant                    | (909) 593-8165 |                    | No             |                   |
| The Chateau                    | 1700 W. Holt Ave.            | Pomona, CA 91768 | Catering-Sales/Rentals/Service     | (909) 553-6308 |                    | No             |                   |
| The Hookup                     | 1047 E. Second St.           | Pomona, CA 91766 | Restaurant & Bar (General Alcohol) | ( ) -          |                    | No             |                   |
| Macho Pollo                    | 1245 E. Holt Ave.            | Pomona, CA 91767 | Fast Food Restaurant               |                | NO                 | -              |                   |
| Tom's #12                      | 282 E. Mission Blvd.         | Pomona, CA 91766 | Restaurant                         | (909) 622-1107 | Yes                | Yes            |                   |
| Tom's #18                      | 1190 E. Philadelphia St.     | Pomona, CA 91766 | Fast Food Restaurant               | (909) 627-0878 |                    | No             |                   |
| Tony's Restaurant              | 986 E. Second St.            | Pomona, CA 91766 | Restaurant                         | (909) 623-4695 |                    | No             |                   |
| Tortas Guadalajara             | 825 E. Mission Blvd.         | Pomona, CA 91766 | Mexican Food                       | (909) 865-1615 |                    | No             |                   |
| Tortas Mexico                  | 1296 E. Holt Ave.            | Pomona, CA 91767 | Fast Food-Mexican Food             | (909) 623-7367 |                    | -              |                   |
| Tropical Mexico                | 1371 S. East End Ave.        | Pomona, CA 91766 | Restaurant                         | (909) 623-7573 |                    | No             |                   |
| Pho Hoe Pasteur                | 1087 E. Holt Ave. A          | Pomona, CA 91767 | Vietnamese & Chinese Food Rest     |                | NO                 | -              |                   |
| Valentino's Pizzeria           | 644 E. Arrow Highway         | Pomona, CA 91767 | Pizza                              | (909) 625-3187 |                    | No             |                   |
| Viet Trieu Restaurant          | 1087 E. Holt Ave. A          | Pomona, CA 91767 | Restaurant                         | (909) 620-9091 |                    | -              |                   |
| Villa Toros                    | 636 E. Holt Ave.             | Pomona, CA 91767 | Restaurant (Mexican Food)          | (909) 865-3540 |                    | No             |                   |
| Villa Toros Restaurant         | 1420 W. Holt Ave.            | Pomona, CA 91768 | Restaurant                         | (909) 865-3911 |                    | No             |                   |
| Weinerschnitzel                | 1382 W. Holt Ave.            | Pomona, CA 91768 | Fast Food Restaurant               | (909) 622-7287 |                    | No             |                   |
| Wendy's                        | 101 E. Foothill Blvd. Bldg 1 | Pomona, CA 91767 | Restaurant (Fast Food)             | (909) 392-9997 |                    | No             |                   |
| Wendy's                        | 3077 Temple Ave.             | Pomona, CA 91768 | Fast Food Restaurant               | (909) 598-5681 |                    | No             |                   |
| Wendy's Snowcones              | 1600 E. Holt Ave.            | Pomona, CA 91767 | Snowcone Sales                     | (909) 356-5538 |                    | No             |                   |
| Cardenas Market                | 2001 S. Garey Ave.           | Pomona, CA 91766 | Vendor-Churros, Snowcones          |                | NO                 | -              |                   |
| Wienerschnitzel                | 1568 Indian Hill Blvd.       | Pomona, CA 91767 | Fast Food                          | (909) 399-5808 |                    | No             |                   |
| Wienerschnitzel #26            | 175 W. Foothill Blvd.        | Pomona, CA 91767 | Fast Food Restaurant               | (909) 596-7606 |                    | No             |                   |
| Wienerschnitzel #46            | 520 E. Mission Blvd.         | Pomona, CA 91766 | Fast Food Restaurant               | (909) 629-1240 |                    | No             |                   |
| Mirage Restaurant              | 3171 N. Garey Ave.           | Pomona, CA 91767 | Restaurant                         |                | NO                 | -              |                   |
| Xochimilco Mexican Restaurant  | 612 N. Indian Hill Blvd.     | Pomona, CA 91767 | Restaurant With Alcohol Sales      | (909) 626-6910 |                    |                | No file Available |
| Yoshinoya Beef Bowl #174       | 2102 S. Garey Ave.           | Pomona, CA 91766 | Restaurant                         | (909) 591-3183 | Yes                | Yes            |                   |





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**Attachment B**  
**City of Pomona Wastewater Emergency Calls**

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### City of Pomona Wastewater Emergency Calls

| Date       | Time       | AM | PM | Notified By      | Address                     | Reason                                 | Responsibility            | Responder |
|------------|------------|----|----|------------------|-----------------------------|--|---------------------------|-----------|
| 1/18/1999  | 7:00 AM    |    | X  |                  | 856 Karesh                  | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 2/14/1999  | 4:30 AM    |    | X  |                  | 532 E Kingsley              | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 2/22/1999  | 9:45 PM    |    | X  |                  | Falcon @ Fuego              | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 6/3/1999   | 2:50 PM    |    | X  |                  | Hamilton @ Laurel           | Stoppage, Overflow                     | City Mmain Line (Unknown) |           |
| 6/6/1999   | 1:00 PM    |    | X  |                  | 68 Quiet Hill               | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 6/7/1999   | 1:10 PM    |    | X  |                  | Artesia, W/ of Orange Grove | Stoppage, Overflow                     | City Main Line (Rags)     |           |
| 6/22/1999  | 9:00 AM    | X  |    |                  | San Bernardino @ Washington | Stoppage, Overflow                     | City Main Line ( Roots)   |           |
| 6/27/1999  | 10:05 AM   | X  |    |                  | 524 E. Pasadena             | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 8/22/1999  | 9:15 AM    | X  |    |                  | Sixth St. @ Mission Blvd.   | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 8/22/1999  | 8:51 AM    | X  |    |                  | Brea Canyon @ Westmont      | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 9/19/1999  | 8:05 AM    | X  |    |                  | 2996 Fullton Rd.            | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 9/28/1999  | 3:30 PM    |    | X  |                  | 855 E. Seventh St.          | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 10/4/1999  | 12:10 PM   |    | X  |                  | 1655 California Pl.         | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 10/18/1999 | 4:45 PM    |    | X  |                  | 1729 Westwood               | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 11/1/1999  | 11:22 PM   |    | X  |                  | 1671 Meserve                | Stoppage, Overflow                     | City Main Line (Grease)   |           |
| 11/28/1999 | 8:30 AM    | X  |    |                  | Canyon Wy @ Mckinnley Ave.  | Stoppage, Overflow                     | City Main Line (Roots)    |           |
| 12/30/1999 | 8:30 AM    | X  |    |                  | 235 W. Grove                | Stoppage Overflow                      | City Main Line (Grease)   |           |
| 1/16/2000  | 1:55 PM    |    | X  | Water Standby    | 185 E. Kingsley             | Sewage on Street                       | Residential Lateral       | Norbert   |
| 1/23/2000  | 9:45 AM    | X  |    | Police Dispatch  | 1737 Waters                 | Stoppage, Sewer Backup                 | Residential Lateral       | David     |
| 1/28/2000  | 8:04 AM    | X  |    | Customer Service | 2655 Pine St.               | Stoppage, Overflow                     | City Mainline             | Norbert   |
| 1/28/2000  | 1:19 PM    |    | X  | Customer Service | 313 E. McKinley             | Stoppage, Sewer Backup                 | Residential Lateral       | Norbert   |
| 1/31/2000  | 3:00 PM    |    | X  | Customer Service | 384 E. Pearl                | Stoppage, Overflow                     | City Mainline             | Norbert   |
| 2/11/2000  | 11:20 AM   | X  |    | Production       | Sewer Lift Station # 1 & 2  | Alarm                                  | CITY                      | Norbert   |
| 2/17/2000  | 9:00AM     | X  |    | Customer Service | 2524 Leebe                  | Flooding                               | Residential Plumbing      | Robert    |
| 2/18/2000  | 10:00 AM   | X  |    | Engineering      | 1300 Brewester              | Stoppage, Sewer Backup                 | City Mainline             | Robert    |
| 2/22/2000  | 5:50 AM    | X  |    | Police Dispatch  | Sewer Lift Station #4       | High Wet Well &<br>Power Failure Alarm |                           | Robert    |
| 2/20/2000  | 8:20 PM    |    | X  | Police Dispatch  | Sewer Lift Station #4       | High Wet Well &<br>Power Failure Alarm |                           | David     |
| 2/25/2000  | 1:30 PM    |    | X  | Customer Service | 515 E. Pasadena             | Stoppage, Sewer Backup                 | Residential Lateral       | Robert    |
| 2/28/2000  | 7:00 PM    |    | X  | Police Dispatch  | Sewer Lift Station # 2      | Pump & Vent Fail Alarm                 |                           | David     |
| 2/28/2000  | 9:00 PM    |    | X  | Police Dispatch  | Sewer Lift Station # 2      | Pump & Vent Fail Alarm                 |                           | Johnny    |
| 3/15/2000  | 10:35 AM   | X  |    | Public Works     | 466 Madison Ave.            | Lateral Damage, Roots                  | Resident                  | David     |
| 3/21/2000  | 7:30 PM    |    | X  | Police Dispatch  | 840 La Mesa                 | Stoppage, Overflow                     | City Mainline             | Robert    |
| 3/25/2000  | 10:00 AM   | X  |    | Police Dispatch  | Sewer Lift Station # 2      | High Wet Well Alarm                    |                           | Robert    |
| 3/26/2000  | 8:00 p. m. |    | X  | Police Dispatch  | Sewer Lift Station # 1      | High Wet Well Alarm                    |                           | Robert    |
| 3/28/2000  | 9:05 a. m. | X  |    | Ofelia Cabrera   | 1045 E. Kingsley            | Stoppage, Sewer Backup                 | City Mainline             | Norbert   |
| 3/31/2000  | 6:45 AM    | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm                                  |                           | Johnny    |
| 4/7/2000   | 7:30 AM    | X  |    | Police Dispatch  | 315 N Cambridge Claremont   | Stoppage, Sewer Backup                 | City Mainline             | Norbert   |
| 4/10/2000  | 8:18 AM    | X  |    | Customer Service | 557 E. Alvarado             | Stoppage, Sewer Backup                 | Residential Lateral       | Norbert   |
| 4/16/2000  | 11:20 AM   | X  |    | Police Dispatch  | 2186 Spencer                | Stoppage, Sewer Backup                 | Residential Lateral       | David     |

## City of Pomona Wastewater Emergency Calls

| Date      | Time     | AM | PM | Notified By      | Address                        | Reason                    | Responsibility        | Responder |
|-----------|----------|----|----|------------------|--------------------------------|---------------------------|-----------------------|-----------|
| 4/21/2000 | 8:00 AM  | X  |    | Customer Service | 1844 W. Philips                | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 4/22/2000 | 11:00 AM | X  |    | Police Dispatch  | 562 E. Ralph                   | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 4/23/2000 | 10:30 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1         | Panel Failure, Alarm      |                       | Robert    |
| 4/24/2000 | 5:20 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Assist County Personnel   |                       | Johnny    |
| 4/25/2000 | 10:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1 & 2     | Alarm                     |                       | Johnny    |
| 5/6/2000  | 8:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1         | Signal Differential Alarm |                       | Norbert   |
| 5/7/2000  | 8:35 AM  | X  |    | Police Dispatch  | Sewer Lift station # 1         | Signal Differential Alarm |                       | Norbert   |
| 5/7/2000  | 9:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1         | Signal Differential Alarm |                       | Norbert   |
| 5/12/2000 | 10:25 AM | X  |    | Water 51, JR     | 1429 Eastend                   | Stoppage, Overflow        | City Mainline         | Johnny    |
| 5/15/2000 | 5:00PM   |    | X  | Jim Taylor       | 2448 Kimball                   | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 5/21/2000 | 10:00 AM | X  |    | Water Standby    | 2448 Kimball                   | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 5/27/2000 | 9:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1         | High Wet Well Alarm       |                       | Johnny    |
| 6/6/2000  | 9:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | High Wet Well Alarm       |                       | David     |
| 6/11/2000 | 7:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1         | Alarm                     |                       | David     |
| 6/13/2000 | 1:00 AM  | X  |    | Scheduled        | Sewer Lift Station # 3         | Shut Down Station         |                       | Robert    |
| 6/14/2000 | 1:30 AM  | X  |    | P.W. Engineering | Sewer Lift Station # 3         | Shut Down Station         |                       | Norbert   |
| 6/15/2000 | 1:30 AM  | X  |    | P.W. Engineering | Sewer Lift Station # 3         | Shut Down Station         |                       | Norbert   |
| 6/28/2000 | 11:20 AM | X  |    | Joe Lara         | Mount Vernon @ 71 Fwy          | Stoppage, Overflow        | City Mainline         | Norbert   |
| 7/1/2000  | 9:56 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1 & 3     | High Wet Well Alarm       |                       | Norbert   |
| 7/8/2000  | 4:05 PM  |    | X  | Police Dispatch  | Third & San Antonio            | Customer Service          | Resident              | David     |
| 7/16/2000 | 1:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Robert    |
| 7/21/2000 | 1:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Johnny    |
| 7/22/2000 | 1:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Johnny    |
| 7/24/2000 | 1:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Johnny    |
| 7/27/2000 | 1:48 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Norbert   |
| 8/2/2000  | 1:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Failure Alarm             |                       | David     |
| 8/5/2000  | 2:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Pump Fail Alarm           |                       | David     |
| 8/6/2000  | 5:50 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1         | High Wet Well Alarm       |                       | David     |
| 8/6/2000  | 2:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Station Fail Alarm        |                       | David     |
| 8/12/2000 | 5:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Robert    |
| 8/11/2000 | 7:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Robert    |
| 8/11/2000 | 9:00 PM  |    | X  | Police Dispatch  | 895 S. Parcels                 | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 8/11/2000 | 11:45 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Failing To Respond Alarm  |                       | Robert    |
| 8/17/2000 | 2:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Failing To Respond Alarm  |                       | Johnny    |
| 8/18/2000 | 1:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4         | Failing To Respond Alarm  |                       | Johnny    |
| 9/8/2000  | 4:00 PM  |    | X  | Customer Service | 1068 Arroyo Park Drive         | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 9/9/2000  | 10:00 PM |    | X  | Police Dispatch  | Holt @ Palomares               | Stoppage, Sewer Backup    | Residential Lateral   | Robert    |
| 9/21/2000 | 6:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | High Wet Well Alarm       |                       | Norbert   |
| 9/27/2000 | 2:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4         | Failure to Check In Alarm |                       | David     |
| 9/30/2000 | 4:00 PM  |    | X  | Police Dispatch  | 48 Rolling Hills               | Water On Street Surface   | City Water Department | David     |
| 9/29/2000 | 7:30 AM  | X  |    | Water 56 Ahmed   | Drake & Covecrest Way          | Stoppage, Overflow        | Apartment Complex     | Johnny    |
| 10/1/2000 | 12:50 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1, 2, & 3 | Power Failure Alarm       |                       | David     |
| 10/1/2000 | 3:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1, 2, & 3 | High Wet Well Alarm       |                       | David     |



## City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                  | Reason                     | Responsibility        | Responder        |
|------------|----------|----|----|------------------|--------------------------|----------------------------|-----------------------|------------------|
| 10/3/2000  | 11:20 AM | X  |    | P.W. Cindy       | Loose Manhole Cover      | 140 W. Orange Grove        |                       | Norbert          |
| 10/6/2000  | 11:20 AM | X  |    | Customer Service | 2655 Pine St.            | Stoppage, Overflow         | City Mainline         | Norbert          |
| 10/14/2000 | 3:10 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3   | Power Failure Alarm        |                       | Johnny           |
| 10/14/2000 | 11:55 AM | X  |    | Police Dispatch  | 380 Claremont            | Stoppage, Sewer Backup     | City Mainline         | Johnny           |
| 10/22/2000 | 6:07 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1   | High Wet Well Alarm        |                       | Norbert          |
| 10/27/2000 | 4:30 PM  |    | X  | Melanie Otero    | 3355 Mural Dr.           | Stoppage, Sewer Backup     | Residential Lateral   | Johnny           |
| 10/29/2000 | 11:30 AM | X  |    | Police Dispatch  | South View @ Grier       | Stoppage, Overflow         | City Main Line        | David            |
| 11/3/2000  | 3:30 PM  |    | X  | Police Dispatch  | 8 Sunny Slope            | Stoppage, Sewer backup     | City Water Department | Robert           |
| 11/8/2000  | 7:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1   | High Wet Well Alarm        |                       | Johnny           |
| 11/16/2000 | 4:51 PM  |    | X  | P.W. Ray         | Mount Vernon @ 71 Fwy    | Stoppage, Overflow         | City Mainline         | Norbert          |
| 11/19/2000 | 9:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1   | Equipment Failure          |                       | Norbert          |
|            |          |    |    |                  |                          | High Wet Well Alarm        |                       |                  |
| 11/19/2000 | 2:40 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1   | Lock Up                    |                       | Norbert          |
| 11/19/2000 | 7:40 PM  |    | X  | Police Dispatch  | 342 Las Brisas           | Stoppage, Overflow         | City Mainline         | Norbert          |
| 11/20/2000 | 11:00 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1   | High Wet Well,             |                       | David            |
|            |          |    |    |                  |                          | General Pump Failure       |                       |                  |
| 11/27/2000 | 5:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1   | Equipment Failure Alarm    |                       | Robert           |
| 12/14/2000 | 6:39 PM  |    | X  | Police Dispatch  | 1040 Densmore            | Stoppage, Sewer Backup     | Residential Lateral   | Norbert          |
| 12/17/2000 | 11:35 AM | X  |    | Police Dispatch  | 1644 S. Waters           | Stoppage, Sewer Backup     | Residential Lateral   | Norbert          |
| 12/17/2000 | 1:15 PM  |    | X  | Police Dispatch  | 1637 S. Waters           | Stoppage, Sewer Backup     | Residential Lateral   | Norbert          |
| 12/18/2000 | 6:40 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4   | High Wet Well, Power Fail. |                       | Norbert          |
| 12/21/2000 | 6:00 PM  |    | X  | Police Dispatch  | 222 E. Foothill Blvd.    | Stoppage, Sewer Backup     | Private Septic        | Robert           |
| 1/4/2001   | 7:30 AM  | X  |    | Robert Koczko    | Mission, E. of Garey     | Stoppage, Overflow         | City Mainline         | Johnny           |
| 1/20/2001  | 10:03 AM | X  |    | Police Dispatch  | Sewer Lift Station # 2   | CPU Alarm                  |                       | Norbert          |
| 1/26/2001  | 1:00PM   |    | X  | Police Dispatch  | Sewer Lift Station # 4   | Failure to Check In Alarm  |                       | Robert           |
| 1/26/2001  | 11:00 AM | X  |    | Police Dispatch  | 761 Corporate Center Dr. | Strong Sewer Odor          | City Mainline         | Robert           |
| 2/13/2001  | 5:00PM   |    | X  | Police Dispatch  | 2416 Lennox              | Stoppage, Sewer Backup     | Residential Lateral   | Robert           |
| 2/21/2001  | 5:30 PM  |    | X  | R.M. Pam         | 600 Williams             | Broken Residential Lateral | Residential Lateral   | Robert           |
| 2/24/2001  | 5:30 PM  |    | X  | Police Dispatch  | 441 W. Tenth Street      | Stoppage, Overflow         | City Main line        | Robert           |
| 2/28/2001  | 8:30 PM  |    | X  | Police Dispatch  | 60 Quiet Hills           | Sewer Odor, Backup         | City Main line        | Johnny           |
| 3/4/2001   | 12:30 PM |    | X  | Police Dispatch  | 1729 W. Orange Grove     | Sewer Odor                 | City Main line        | Johnny           |
| 3/4/2001   | 12:30 PM |    | X  | Water Stand-by   | 19 North Slope Ln.       | Check Sewer Main           | City Main line        | Johnny           |
| 3/5/2001   | 4:05 PM  |    | X  | Customer Service | 904 1/2 Monterey         | Stoppage, Sewer Backup     | City Main line        | Norbert          |
| 3/6/2001   | 7:30 PM  |    | X  | Police Dispatch  | 972 N. Eleanor           | Stoppage, Backup           | Residential Lateral   | Norbert          |
| 3/6/2001   | 7:30 AM  | X  |    |                  | 19 North Slope Ln.       | Stoppage, Overflow         | City Main line        | Wastewater Staff |
| 3/9/2001   | 8:15 AM  | X  |    | Police Dispatch  | 938 E. Jefferson         | Stoppage, Sewer Backup     | Residential Lateral   | Norbert          |
| 3/11/2001  | 9:45 AM  | X  |    | Police Dispatch  | 1928 Mountain            | Stoppage, Sewer Backup     | Residential Lateral   | Norbert          |
| 3/14/2001  | 1:30 AM  | X  |    | Police Dispatch  | 150 W. Foothill          | Stoppage, Sewer Backup     | Residential Lateral   | Johnny           |
| 3/20/2001  | 6:30 PM  |    | X  | Police Dispatch  | 29 Rainbow Ridge         | Water on street surface    | broken sprinkler      | Johnny           |
| 3/21/2001  | 11:45 AM | X  |    | Rita Garcia      | 904 E. Monterey          | Stoppage, Backup           | City main line        | Johnny           |
| 3/25/2001  | 12:30 PM |    | X  | Police Dispatch  | 450 W. Foothill          | Stoppage, Backup           | City main line        | Robert           |
| 3/26/2001  | 11:00 AM | X  |    | Customer Service | 940 North Hill Road      | Stoppage, Backup           | City main line        | Johnny           |
| 3/30/2001  | 3:15 PM  |    | X  | Pomona           | 1225 Hillcrest           | Broken Main line           | City Main line        |                  |
| 3/31/2001  | 6:00 AM  | X  |    | Scheduled        | 1225 Hillcrest           | Broken Main line           | City Main line        | Johnny           |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By        | Address                         | Reason                     | Responsibility       | Responder |
|------------|----------|----|----|--------------------|---------------------------------|----------------------------|----------------------|-----------|
| 4/6/2001   | 7:05 PM  |    | X  | Police Dispatch    | 983 Laurel                      | Stoppage Sewer Backup      | Residential Lateral  | Norbert   |
| 5/5/2001   | 11:45 AM | X  |    | Police Dispatch    | Garey @ Phillips                | Stoppage, Overflow         | City Main line       | Gabriel   |
| 5/7/2001   | 5:30 PM  |    | X  | Customer Service   | 1106 E. Ninth                   | Stoppage, Sewer Backup     | City Main line       | Robert    |
| 5/19/2001  | 8:00 AM  | X  |    | Police Dispatch    | 1474 Hacienda                   | Stoppage, Sewer backup     | Residential Lateral  | Gabriel   |
| 5/24/2001  | 5:15 PM  |    | X  | Customer Service   | 742 Lincoln Ave.                | Stoppage, Sewer Backup     | Residential Lateral  | Johnny    |
| 5/25/2001  | 4:45 PM  |    | X  | Customer Service   | 2969 Battram                    | Sewer Odor                 | None Detected        | Gabriel   |
| 5/29/2001  | 8:10 PM  |    | X  | Water Standby      | 345 Roosevelt                   | Water On Alley Surface     | Not Sewer Related    | Norbert   |
| 6/1/2001   | 8:30 PM  |    | X  | Police Dispatch    | 611 E. Holt Ave                 | Stoppage Sewer Backup      | Property Lateral     | Norbert   |
| 6/3/2001   | 9:15 AM  | X  |    | Police Dispatch    | Sewer Lift Station # 3          | High Water Alarm           |                      | Norbert   |
| 6/3/2001   | 2:20 PM  |    | X  | Police Dispatch    | Sewer Lift station # 3          | High Water Alarm           |                      | Gabriel   |
| 6/5/2001   | 5:45 PM  |    | X  | Police Dispatch    | 601 Ridgeway                    | Stoppage, Overflow         | City Mainline        | Robert    |
| 6/9/2001   | 11:00 AM | X  |    | Police Dispatch    | Sewer Lift Station # 3          | High Water Alarm           |                      | Robert    |
| 6/24/2001  | 6:25 AM  | X  |    | Police Dispatch    | 2269 Farrington                 | Stoppage, Sewer Backup     | Residential Lateral  | Johnny    |
| 6/19/2001  | 6:15 PM  |    | X  | Police Dispatch    | Sewer Lift Station # 2          | Pump Fail Alarm            |                      | Johnny    |
| 7/2/2001   | 1:30 PM  |    | X  | Customer Service   | 944 E. Lexington                | Stoppage, Sewer Backup     | City Main line       | Johnny    |
| 7/3/2001   | 4:00 PM  |    | X  | Customer Service   | 170 E. Phillips                 | Stoppage, Sewer Backup     | City Main line       | Johnny    |
| 7/5/2001   | 5:45 PM  |    | X  | Customer Service   | 1209 Nashville                  | Stoppage, Overflow         | City Main line       | Robert    |
| 7/6/2001   | 3:30 PM  |    | X  | Water Standby      | City Yard                       | Vactor Lights Left On      | Wastewater Personnel | Robert    |
| 7/8/2001   | 1:00 PM  |    | X  | Police Dispatch    | 441 W. Tenth Street             | Stoppage, Sewer Backup     | Residential Lateral  | Robert    |
| 7/11/2001  | 6:30 PM  |    | X  | Police Dispatch    | 579 Weber                       | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 7/13/2001  | 8:00 AM  | X  |    |                    | City Yard, Fleet Dept.          | Flat Tire on Standby Truck |                      | Gabriel   |
| 7/21/2001  | 1:00 PM  |    | X  | Police Dispatch    | 643 James Pl.                   | Stoppage , Sewer Backup    | City Main line       | Johnny    |
| 8/4/2001   | 11:25 AM | X  |    | Police Dispatch    | Clark Ave. & Holt Ave           | Stoppage, Overflow         | City Main line       | Norbert   |
| 8/12/2001  | 1:00 AM  | X  |    | Police Dispatch    | Sewer Lift Station # 1          | High Wet Well Alarm        |                      | Gabriel   |
| 8/12/2001  | 2:30 AM  | X  |    | Police Dispatch    | Sewer Lift Station # 1          | High Wet Well Alarm        |                      | Gabriel   |
| 8/14/2001  | 4:45 PM  |    | X  | Customer Service   | 1902 Ninth St.                  | Mainline Inspection        |                      | Johnny    |
| 8/14/2001  | 6:50 PM  |    | X  | Yvette Mullenau    | 1902 Ninth St.                  | Sewer Smell                | Odor not detected    | Johnny    |
| 8/24/2001  | 8:30 AM  | X  |    | Ray Mtz. ST. Dept. | Seventh & White Ave             | Stoppage, Overflow         | Water Line Break     | Robert    |
| 8/30/2001  | 12:50 AM | X  |    | Police Dispatch    | Sewer Lift Station # 4          | Failure to Check In Alarm  |                      | Norbert   |
| 9/9/2001   | 2:00 AM  | X  |    | Police Dispatch    | Sewer Lift Station # 2          |                            |                      | Gabriel   |
| 9/27/2001  | 7:45 PM  |    | X  | Police Dispatch    | 343 Fuego                       | Stoppage, Sewer Backup     | Residential Lateral  | Robert    |
| 9/28/2001  | 7:00 PM  |    | X  | Water Stand-by     | 879 Hillcrest Drive             | Possible Broken Sewer      | Residential          | Gabriel   |
| 10/1/2001  | 5:45 PM  |    | X  | Police Dispatch    | Sewer Lift Station # 2          |                            |                      | Gabriel   |
| 10/5/2001  | 1:45 PM  |    | X  | Police Dispatch    | 2325 Angela St. Apt. #2         | Broken Water line          | Residential          | Gabriel   |
| 10/19/2001 | 7:45 PM  |    | X  | Police Dispatch    | Sewer Lift Station # 2          | Failure To Respond         |                      | Robert    |
| 10/19/2001 | 12:30 PM |    | X  | Customer Service   | 934 W. Holt Ave                 | Sewer Dept. Rep.           |                      | Robert    |
| 11/2/2001  | 8:30 AM  | X  |    | Customer Service   | 1028 Muir                       | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 11/15/2001 | 6:00 PM  |    | X  | Customer Service   | 298 Albert                      | Stoppage Sewer Backup      | Residential Lateral  | Johnny    |
| 11/16/2001 | 5:40 AM  | X  |    | Police Dispatch    | Clark Ave @ Holt Ave            | Water On Street Surface    | City Pump Facility   | Norbert   |
| 11/16/2001 | 1:50 PM  |    | X  | Customer Service   | 1759 Denison                    | Sewer Odor                 |                      | Norbert   |
| 11/18/2001 | 4:00 PM  |    | X  | Police Dispatch    | 1812 Yorba                      | Stoppage, Sewer Backup     | Residential Lateral  | Norbert   |
| 11/19/2001 | 12:05 AM | X  |    | Police Dispatch    | Sewer Lift Station # 4          | Failure to Check In Alarm  |                      | Norbert   |
| 11/24/2001 | 5:45 PM  |    | X  | Police Dispatch    | 1243 S. San Antonio             | Stoppage, Sewer Backup     | City of Ontario      | Robert    |
| 11/30/2001 | 5:30 PM  |    | X  | Police Dispatch    | Hillcrest Drive @ Hillcrest Pl. | Stoppage Sewer Backup      | City Sewer Main line | Gabriel   |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                 | Reason                     | Responsibility       | Responder |
|------------|----------|----|----|------------------|-------------------------|----------------------------|----------------------|-----------|
| 12/5/2001  | 4:20 PM  |    | X  | Jim Butler       | Club Dr. @ Home Terrace | Stoppage, Sewer Backup     | City Sewer Main line | Johnny    |
| 12/14/2001 | 2:25 PM  |    | X  | Customer Service | 38 Sage Canyon          | Stoppage, Sewer Backup     | Clogged Storm Drain  | Norbert   |
| 12/14/2001 | 10:40 AM | X  |    | Customer Service | 660 James Pl.           | Stoppage, Sewer Backup     | City Sewer Main line | Norbert   |
| 12/20/2001 | 9:15 AM  | X  |    |                  | 944 E. Ninth St.        | Stoppage, Sewer Backup     | City Sewer main Line | Johnny    |
| 12/21/2001 | 3:00 PM  |    | X  |                  | 303 Short St.           | Stoppage, Sewer Backup     | City Sewer Main Line | Gabriel   |
| 12/24/2001 | 11:55 AM | X  |    | Police Dispatch  | Caswell Btwn 3rd & 4th  | Manhole Lid Off            |                      | Gabriel   |
| 12/28/2001 | 7:30 AM  | X  |    | Police Dispatch  | 1198 N. Huntington      | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 12/28/2001 | 4:00 PM  |    | X  | Police Dispatch  | 1709 La Mancha          | Cell Phone, Storm Drain    |                      | Gabriel   |
| 12/30/2001 | 12:30 PM |    | X  | Police Dispatch  | 690 Eighth St.          | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 1/2/2002   | 12:00 PM |    | X  | Police Dispatch  | 2413 Love Joy           | Stoppage, Sewer Backup     | Residential Lateral  | Johnny    |
| 1/11/2002  | 10:00 AM | X  |    | Police Dispatch  | 356 Cameron             | Stoppage, Sewer Backup     | Residential Lateral  | Norbert   |
| 1/12/2002  | 10:45 AM | X  |    | Police Dispatch  | Sewer Lift Station # 3  | Alarm, Failure to Check In |                      | Norbert   |
| 1/12/2002  | 1:30 PM  |    | X  | Police Dispatch  | Vamana @ Grove          | Stoppage, Overflow         | City Sewer Main Line | Gabriel   |
| 1/15/2002  | 1:20 PM  |    | X  | Melanie Otero    | 601 E. Arrow Highway    | Stoppage, Overflow, PVT P  | City Sewer Main Line | Norbert   |
| 1/17/2002  | 8:25 PM  |    | X  | Police Dispatch  | McKinley @ Fairplex     | Stoppage, Sewer Backup     | Not Sewer Related    | Johnny    |
| 1/26/2002  | 11:30 AM | X  |    | Police Dispatch  | 800 Hillcrest Drive     | Stoppage, Overflow         | City Sewer Main Line | Gabriel   |
| 1/26/2002  | 3:30 PM  |    | X  | Police Dispatch  | Shirley @ James Pl      | Stoppage, Overflow         | City Sewer Main Line | Gabriel   |
| 1/28/2002  | 11:20 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Check In |                      | Robert    |
| 1/31/2002  | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Check In |                      | Robert    |
| 1/31/2002  | 6:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1  | Alarm, PLC Fail            |                      | Robert    |
| 2/1/2002   | 11:30 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Respond  |                      | Robert    |
| 2/3/2002   | 9:30 PM  |    | X  | Police Dispatch  | 1781 Bainbridge         | Exploding Sewer            | Not Sewer Related    | Robert    |
| 2/3/2002   | 2:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Respond  |                      | Robert    |
| 2/22/2002  | 12:45 PM |    | X  | Customer Service | 1758 Yorba              | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 2/18/2002  | 1:25 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Respond  |                      | Johnny    |
| 2/12/2002  | 12:35 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm, Low Water           |                      | Johnny    |
| 2/10/2002  | 6:30 PM  |    | X  | Police Dispatch  | Ann Arbor @ County Road | Stoppage, Overflow         | SLS # 1, CSML        | Robert    |
| 2/27/2002  | 1:35 AM  | X  |    | Police Dispatch  | Sewer Lift Station #2   | Alarm, High Water          |                      | Norbert   |
| 2/27/2002  | 6:15 PM  |    | X  | Police Dispatch  | Franklin @ Towne Ave    | Evidence In Catch Basin    | Police Gang Unit     | Norbert   |
| 2/28/2002  | 10:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Respond  |                      | Johnny    |
| 3/23/2002  | 8:50 AM  | X  |    | Police Dispatch  | Sorrento @ Via Moreno   | Stoppage, Overflow         | City Sewer Main Line | Gabriel   |
| 3/24/2002  | 12:30 PM |    | X  | Police Dispatch  | 1030 E. Ninth St.       | Stoppage, Overflow PVT P   | City Sewer Main Line | Gabriel   |
| 3/29/2002  | 5:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm, General Equip. Fail |                      | Robert    |
| 4/6/2002   | 2:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm, Pump 2 Fail         |                      | Norbert   |
| 4/6/2002   | 5:55 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2  | Alarm, Pump 1 & 3 Fail     |                      | Norbert   |
| 4/8/2002   | 1:40 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Check In |                      | Norbert   |
| 4/9/2002   | 8:25 PM  |    | X  | Water Standby    | 2200 N Orange Grove     | Stoppage                   | City Sewer Main Line | Johnny    |
| 4/15/2002  | 1:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4  | Alarm, Failure to Check IN |                      | Johnny    |
| 4/16/2002  | 2:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm VFD Fail             |                      | Gabriel   |
| 4/19/2002  | 1:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm, Pump Fail           |                      | Gabriel   |
| 4/19/2002  | 8:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3  | Alarm, High Wet Well       |                      | Gabriel   |
| 4/19/2002  | 1:30 PM  |    | X  | Customer Service | 1186 E. Kingsley        | Stoppage, Sewer Backup     | Residential Lateral  | Gabriel   |
| 4/19/2002  | 11:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4  | Alarm                      |                      | Gabriel   |
| 4/20/2002  | 11:45 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1  | Alarm, Pump Fail           |                      | Gabriel   |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                     | Reason                     | Responsibility          | Responder |
|------------|----------|----|----|------------------|-----------------------------|----------------------------|-------------------------|-----------|
| 4/22/2002  | 12: AM   | X  |    | Police Dispatch  | Sewer Lift Station # 4      | Alarm                      |                         | Gabriel   |
| 4/22/2002  | 4:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Pump Fail           |                         | Gabriel   |
| 4/22/2002  | 11:45 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, VFD Fail            |                         | Gabriel   |
| 4/25/2002  | 2:00 AM  | X  |    | Police Dispatch  | 1200 W. Second St.          | Overflow, Reclaimed        | City, Reclaim Reservoir | Robert    |
| 4/27/2002  | 4:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, General Equip. Fail |                         | Robert    |
| 4/28/2002  | 8:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm Bypass               |                         | Robert    |
| 5/3/2002   | 4:25 PM  |    | X  | Janet Carter     | 150 W. Foothill             | Stoppage, Sewer Backup     |                         | Johnny    |
| 5/6/2002   | 7:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, High Water          |                         | Johnny    |
| 5/18/2002  | 1:00 PM  |    | X  | Water Standby    | 71 Village Loop             | Pool Water                 | Residential Pool        | Gabriel   |
| 5/26/2002  | 9:30 AM  | X  |    | Police Dispatch  | 1665 Meserve                | Stoppage, Sewer Overflow   | City Sewer Main         | Robert    |
| 6/23/2002  | 12:00 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm                      |                         | Robert    |
| 6/21/2002  | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm                      |                         | Robert    |
| 7/1/2002   | 7:15 PM  |    | X  | Police Dispatch  | 918 County Rd.              | Stoppage, Sewer Backup     | Residential Lateral     | Robert    |
| 7/7/2002   | 8:15 PM  |    | X  | Water Standby    | 709 San Bernardino          | Water Issue                |                         | Robert    |
| 7/10/2002  | 9:30 PM  |    | X  | Water Standby    | 148 N. Huntington           | Vehicle Lights On          |                         | Gabriel   |
| 7/12/2002  | 10:00 AM | X  |    | Police Dispatch  | Sewer Lift Station # 3      | Alarm, Failure To Check In |                         | Gabriel   |
| 7/14/2002  | 12:50 PM |    | X  | Police Dispatch  | 741 Loma Vista              | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 7/14/2002  | 1:10 PM  |    | X  | Police Dispatch  | 640 E. McKinley             | Sewage In Alley            | Illegal Dumping (RV)    | Gabriel   |
| 7/20/2002  | 4:00 PM  |    | X  | Water Standby    | 1647 Larkin Way             | Stoppage                   | Residential Lateral     | Robert    |
| 7/22/2002  | 6:14 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Failure To Check In |                         | Norbert   |
| 7/27/2002  | 3:30 PM  |    | X  | Police Dispatch  | 915 W. Lexington            | Odor Complaint             |                         | Robert    |
| 7/28/2002  | 7:00 PM  |    | X  | Police Dispatch  | 1761 E Mission              | Stoppage, Overflow PVT P   | Residential Lateral     | Robert    |
| 8/4/2002   | 11:30 AM | X  |    | Water Standby    | 2491 Lennox                 | Stoppage, Sewer Backup     | Residential Lateral     | Robert    |
| 8/19/2002  | 4:50 PM  |    | X  | Customer Service | 1831 Club Dr.               | Stoppage, Sewer Backup     | Residential Lateral     | John      |
| 8/20/2002  | 5:03 PM  |    | X  | Customer Service | 787 E Phillips              | Stoppage, Sewer Backup     | Residential Lateral     | John      |
| 9/1/2002   | 6:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm , High Wet Well      |                         | Gabriel   |
| 9/2/2002   | 6:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, High Wet Well       |                         | Gabriel   |
| 9/2/2002   | 8:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm High Wet Well        |                         | Gabriel   |
| 9/7/2002   | 4:00 PM  |    | X  | Police Dispatch  | Sewer Lift station #2       | Alarm, High Wet Well, Gas  |                         | Gabriel   |
| 9/16/2002  | 2:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm, High Wet Well       |                         | Robert    |
| 9/16/2002  | 6:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, High Wet Well       |                         | Robert    |
| 9/18/2002  | 6:40 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Gas                 |                         | Norbert   |
| 9/29/2002  | 4:00 PM  |    | X  | Police Dispatch  | 60 FWY @ Phillips Ranch Rd  | Stoppage, Sewer Overflow   | City Sewer Mainline     | John      |
| 10/13/2002 | 5:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, High Wet Well       |                         | Robert    |
| 10/14/2002 | 3:05 AM  | X  |    | Police Dispatch  | Sewer lift Station # 1      | Alarm, High Wet Well       |                         | Robert    |
| 10/14/2002 | 12:30 PM |    | X  | WTR 21           | Sewer Lift Station # 1      | Station Down, NO ALARM     | City                    | WW Crews  |
| 10/18/2002 | 11:35 AM | X  |    | Customer Service | 777 W. Center               | Stoppage, Sewer Backup     | Residential Lateral     | Norbert   |
| 10/20/2002 | 11:30 AM | X  |    | Police Dispatch  | 1110 Wisconsin              | Stoppage, Sewer Backup     | Apt. Bldg. Plumbing     | Norbert   |
| 10/24/2002 | 10:20 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Failure to Check In |                         | Gabriel   |
| 10/25/2002 | 5:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4      | High Wet Well              | LACSD Alarm Test        | Gabriel   |
| 10/30/2002 | 6:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Failure To Check In |                         | Robert    |
| 11/5/2002  | 4:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3      | Alarm, Zone 9              |                         | Robert    |
| 11/9/2002  | 5:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Power Fail          |                         | Robert    |
| 11/13/2002 | 1:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2, # 3 | Alarm                      |                         | John      |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By       | Address                     | Reason                              | Responsibility           | Responder |
|------------|----------|----|----|-------------------|-----------------------------|-------------------------------------|--------------------------|-----------|
| 12/6/2002  | 2:00 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 1      | Alarm, High Wet well                |                          | Robert    |
| 12/8/2002  | 5:30 PM  |    | X  | Police Dispatch   | 148 N. Huntington           | Vactor lights left on               | Wastewater Crew          | Robert    |
| 12/13/2002 | 4:45 PM  |    | X  | Police Dispatch   | 2214 Concord                | Stoppage, Sewer Backup              | Possible City Tree Roots | Norbert   |
| 12/14/2002 | 9:00 AM  | X  |    | Police Dispatch   | 1795 Shirley                | Stoppage Sewer Overflow             | City Sewer Mainline      | John      |
| 12/21/2002 | 10:15 AM | X  |    | Police Dispatch   | 2242 Kellogg Park Dr.       | Stoppage, Sewer Backup              | Residential Lateral      | John      |
| 12/23/2002 | 4:30 PM  |    | X  | Police Dispatch   | 1790 Larkspur               | Stoppage, Sewer Backup              | Residential Lateral      | Gabriel   |
| 12/28/2002 | 11:20 AM | X  |    | Police Dispatch   | 607 Pasadena                | Stoppage, Sewer Backup              | Residential Lateral      | Gabriel   |
| 1/4/2003   | 10:00 PM |    | X  | Police Dispatch   | 23 Calle Del Mar            | Odor Complaint                      |                          | Robert    |
| 1/5/2003   | 11:30 PM |    | X  | Police Dispatch   | Sewer Lift Station # 4      | Alarm, Power Failure                |                          | Robert    |
| 1/6/2003   | 4:30 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2      | Alarm, Power Failure                |                          | Robert    |
| 1/6/2003   | 8:25 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 1, # 4 | Gas and High Wetwell                |                          | Norbert   |
| 1/6/2003   | 11:40 PM |    | X  | Police Dispatch   | Sewer Lift Station # 1      | Alarm, High Wet Well                |                          | Norbert   |
| 1/10/2003  | 1:00 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 1      | Alarm, High Wet Well                |                          | Norbert   |
| 1/10/2003  | 7:00 AM  | X  |    | Police Dispatch   | 1795 N. Orangegrove         | Stoppage Sewer Backup               | City Sewer Mainline      | Norbert   |
| 1/10/2003  | 4:30 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Failure to Checkin           |                          | Norbert   |
| 1/12/2003  | 4:30 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Failure to Checkin           |                          | Norbert   |
| 1/13/2003  | 4:40 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Failure to Checkin           |                          | John      |
| 1/19/2003  | 8:30 AM  | X  |    | Police Dispatch   | Village Loop @ Gunsmoke     | Stoppage, Sewer Overflow            | City Sewer Mainline      | John      |
| 1/19/2003  | 2:45 PM  |    | X  | Police Dispatch   | 2488 Lennox                 | Stoppage, Sewer Backup              | Residential Lateral      | John      |
| 1/20/2003  | 7:30 AM  | X  |    | Police Dispatch   | Westmont @ Grier            | Odor Complaint                      |                          | John      |
| 1/20/2003  | 10:00 AM | X  |    | Police Dispatch   | 250 E. Kingsley             | Stoppage, Sewer Overflow            | Residential Lateral      | Gabriel   |
| 1/27/2003  | 2:30 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2      | Alarm, Pump Fail                    |                          | Gabriel   |
| 1/28/2003  | 1:40 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 1 & 2  | Alarm, High Wetwell, # 2, Pump Fail |                          | Norbert   |
| 1/31/2003  | 8:20 PM  |    | X  | Police Dispatch   | 429 W. Orange Grove         | Stoppage, Sewer Backup              | Contractor Responsible   | Norbert   |
| 2/5/2003   | 5:30 PM  |    | X  | Customer Service  | 1480 S. Park Ave.           | Stoppage, Sewer Backup              | Residential Lateral      | Gabriel   |
| 2/9/2003   | 3:30 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2      | Alarm, Pump Fail                    |                          | Gabriel   |
| 2/11/2003  | 12:00 AM | X  |    | Police Dispatch   | Sewer Lift Station # 1      | Alarm, High Wetwell                 |                          | John      |
| 2/14/2003  | 3:00 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2      | Alarm, Pump Fail                    |                          | John      |
| 2/18/2003  | 7:00 AM  | X  |    | Police Dispatch   | 2357 Gambier St.            | Odor Complaint                      |                          | John      |
| 2/18/2003  | 4:40 PM  |    | X  | Police Dispatch   | 187 E. Eleventh St.         | Sewage Spill                        | Motorist, RV, (Cited)    | John      |
| 2/21/2003  | 9:00 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2      | Alarm, Power Failure                |                          | Gabriel   |
| 2/25/2003  | 6:30 PM  |    | X  | Police Dispatch   | 723 E. Alvarado             | Stoppage, Sewer Backup              | Residential Lateral      | Norbert   |
| 2/25/2003  | 10:31 PM |    | X  | Police Dispatch   | 661 E. Kingsley             | Stoppage, Sewer Backup              | Residential Lateral      | Norbert   |
| 3/1/2003   | 1:20 PM  |    | X  | Police Dispatch   | Lexington @ Waters          | Sink Hole, Trench Failure           | Contractor Responsible   | Norbert   |
| 3/8/2003   | 1:15 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 4      | Alarm, Vent Fail                    |                          | Gabriel   |
| 3/15/2003  | 5:50 AM  | X  |    | Police Dispatch   | Sewer Lift Staion # 3       | Alarm, Vent Fail                    |                          | Norbert   |
| 3/20/2003  | 8:45 PM  |    | X  | Police Dispatch   | Sewer Lift Staion # 2       | Alam, Failure to Check In           |                          | John      |
| 3/21/2003  | 2:30 PM  |    | X  | Customer Services | 1023 Groff                  | Stoppage, Backup                    | Residential Lateral      | John      |
| 3/30/2003  | 4:30 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Gas Alarm                    |                          | Gabriel   |
| 3/30/2003  | 6:45 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Gas Alarm                    |                          | Gabriel   |
| 4/5/2003   | 6:00 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Combustible Alarm            |                          | Norbert   |
| 4/6/2003   | 2:00 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Vent Fail                    |                          | Norbert   |
| 4/6/2003   | 3:30 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 3      | Alarm, Vent Fail                    |                          | Norbert   |
| 5/2/2003   | 8:50 PM  |    | X  | Police Dispatch   | Sewer Lift Statation # 2    | Alarm, Power Failure                |                          | Norbert   |

### City of Pomona Wastewater Emergency Calls

| Date      | Time     | AM | PM | Notified By      | Address                    | Reason  | Responsibility        | Responder |
|-----------|----------|----|----|------------------|----------------------------|---|-----------------------|-----------|
| 5/7/2003  | 5:20 PM  |    | X  | Customer Service | 945 S. White Ave.          | Stoppage, Sewer Backup                              | Residential Lateral   | Gabriel   |
| 5/23/2003 | 4:30 PM  |    | X  | Police Dispatch  | 2224 Belinda Ave.          | Stoppage, Sewer Backup                              | Residential Lateral   | Gabriel   |
| 5/25/2003 | 11:30 AM | X  |    | Police Dispatch  | 204 E. Pasadena            | Stoppage, Sewer Lateral                             | Residential Lateral   | Gabriel   |
| 5/27/2003 | 4:50 PM  |    | X  | Police Dispatch  | Bonita @ Garey Ave.        | Water on Street                                     | Not Sewer Related     | Gabriel   |
| 5/28/2003 | 4:40 PM  |    | X  | Customer Service | 333 Madison                | Stoppage, Sewer Backup                              | Residential Lateral   | Gabriel   |
| 5/30/2003 | 1:50 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Gas  |                       | Gabriel   |
| 5/31/2003 | 12:50 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4     | Alarm, Failure to Check In                          |                       | Gabriel   |
| 6/1/2003  | 11:45 AM | X  |    | Police Dispatch  | 227 Aliso                  | Stoppage, Sewer Backup                              | Residential Lateral   | Gabriel   |
| 6/7/2003  | 1:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Gas  |                       | Norbert   |
| 6/10/2003 | 5:45 PM  |    | X  | Customer Service | 2 Knollview Dr             | Stoppage, Sewer Overflow                            | City Sewer Main Lline | Gabriel   |
| 6/16/2003 | 4:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 1 Fail                                  |                       | John      |
| 6/19/2003 | 4:10 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Failure to Check In                          |                       | John      |
| 6/22/2003 | 4:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Failure to Check In                          |                       | John      |
| 6/25/2003 | 4:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station #2      | Alarm, Failure To Check In                          |                       | John      |
| 6/29/2003 | 4:30 a.m | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Failure to Check In                          |                       | John      |
| 7/5/2003  | 5:00 PM  |    |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Failure To Check In                          |                       | Gabriel   |
| 7/18/2003 | 9:00 AM  | X  |    | Customer Service | Sewer Lift Station # 1     | Station Off, Sewer Overflow                         |                       | Norbert   |
| 7/21/2003 | 8:30 AM  | X  |    | Police Dispatch  | Colingwood                 | Stoppage, Sewer Overflow                            | None Found            | John      |
| 8/1/2003  | 12:30 AM | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wetwell                                 |                       | Gabriel   |
| 8/1/2003  | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wetwell                                 |                       | Gabriel   |
| 8/2/2003  | 8:30 PM  |    | X  | Police Dispatch  | 314 Park Ave.              | Sewer Overflow                                      | None Found, Odor      | Gabriel   |
| 8/8/2003  | 7:40 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, Failure to Check In                          |                       | Gabriel   |
| 8/13/2003 | 3:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump Fail                                    |                       | Gabriel   |
| 8/16/2003 | 2:10 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 4     | Alarms, Gas, High Wetwell                           |                       | Gabriel   |
| 8/16/2003 | 2:00 PM  |    | X  | Water Standby    | 1117 Oakknoll              | Stoppage Sewer Backup                               | Residential Lateral   | Gabriel   |
| 8/20/2003 | 5:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wetwell                                 |                       | John      |
| 8/20/2003 | 8:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, Failure to Check In                          |                       | John      |
| 8/22/2003 | 3:30 AM  |    |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Combustible Alarm                            |                       | Gabriel   |
| 8/24/2003 | 9:18 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Gas/Wetwell                                  |                       | Norbert   |
| 8/24/2003 | 1:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, Low Battery                                  |                       | Gabriel   |
| 8/27/2003 | 9:55 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Gas/Wetwell                                  |                       | Norbert   |
| 8/26/2003 | 6:13 PM  |    | X  | Police Dispatch  | 250 E Kingsley             | Stoppage, Sewer Overflow                            | Residential Lateral   | Norbert   |
| 8/29/2003 | 7:18 AM  | X  |    | Police Dispatch  | 239 E. Holt Ave.           | Stoppage, Sewer Backup                              | City Sewer Main Line  | Norbert   |
| 9/6/2003  | 9:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wetwell                                 |                       | Gabriel   |
| 9/13/2003 | 4:50 PM  |    | X  | Janet Carter     | 1021 Cambrin               | Stoppage, Sewer Backup                              | Residential Lateral   | John      |
| 9/19/2003 | 1:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4     | Alarm, High Wet Well                                |                       | Norbert   |
| 9/20/2003 | 1:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4     | Alarm, High Wet Well                                |                       | John      |
| 9/22/2003 | 9:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well                                |                       | John      |
| 9/22/2003 | 10:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well                                |                       | John      |
| 9/22/2003 | 11:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well                                |                       | John      |
| 9/25/2003 | 3:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump Failure                                 |                       | John      |
| 9/27/2003 | 5:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1,2,3 | 1) Alarm, High Wet Well, 2) Pump Fail, 3) Gas Alarm |                       | John      |
| 9/30/2003 | 6:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well                                |                       | Gabriel   |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By       | Address                       | Reason                     | Responsibility          | Responder |
|------------|----------|----|----|-------------------|-------------------------------|----------------------------|-------------------------|-----------|
| 10/4/2003  | 7:30 PM  |    | X  | Police Dispatch   | Old Pomona Rd. @ Village Loop | Sink Hole, Trench Failure  | None located            | Gabriel   |
| 10/19/2003 | 9:50 PM  |    | X  | Police Dispatch   | 989 W. Ninth St.              | Stoppage, Sewer Backup     |                         | John      |
| 10/23/2003 | 10:45 AM | X  |    | Police Dispatch   | Garey Ave @ County Road       | Not Sewer Related          |                         | Gabriel   |
| 10/25/2003 | 12:30 PM |    | X  | Police Dispatch   | Sewer Lift Station # 4        | Alarm, High Wet Well       |                         | Gabriel   |
| 11/4/2003  | 2:15 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, Pump Failure        |                         | John      |
| 11/18/2003 | 11:45 PM |    | X  | Police Dispatch   | Sewer Lift Station # 4        | Alarm, Failure To Check In |                         | Norbert   |
| 11/19/2003 | 1:15 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Failure To Check In |                         | Norbert   |
| 11/28/2003 | 8:30 AM  | X  |    | Water Standby     | 741 Loma Vista                | Stoppage, Sewer Backup     | Residential Lateral     | John      |
| 12/5/2003  | 12:10 AM | X  |    | Police Dispatch   | 767 San Bernardino            | Water on Street            | Water Dept. (Leak)      | Gabriel   |
| 12/7/2003  | 4:30 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Vent Failure        |                         | Gabriel   |
| 12/12/2003 | 2:00 PM  |    | X  | Customer Service  | 2210 Marquette                | Stoppage, Sewer Backup     | Residential Lateral     | Norbert   |
| 12/15/2003 | 4:15 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Vent Fail           |                         | Norbert   |
| 12/25/2003 | 11:30 AM | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarms, Gas, Vent Failure  |                         | Gabriel   |
| 12/26/2003 | 1130 AM  | X  |    | Customer Service  | 1026 San Antonio              | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 12/26/2003 | 1:45 PM  |    | X  | Customer Service  | 205 Sherwood                  | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 12/28/2003 | 1:30 PM  |    | X  | Police Dispatch   | 1260 E. Kingsley              | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 12/30/2003 | 12:25 AM | X  |    | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Vent Failure        |                         | Norbert   |
| 1/2/2004   | 5:15 PM  |    | X  | Police Dispatch   | 1221 N. Canyon Way            | Stoppage, Sewer Backup     | Residential Lateral     | Norbert   |
| 1/3/2004   | 11:30 AM | X  |    | Police Dispatch   | 710 Tonner Dr.                | Stoppage, Sewer Backup     | Residential Lateral     | Norbert   |
| 1/4/2004   | 9:00 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, Pump Fail           |                         | Norbert   |
| 1/11/2004  | 12:15 PM |    | X  | Police Dispatch   | 1401 W. Ninth Street          | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 1/17/2004  | 12:15 PM |    | X  | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Vent Failure        |                         | John      |
| 2/14/2004  | 1:00 PM  |    | X  | Police Dispatch   | Sewer Lift Station # 4        | Alarm, Hight Wet Well      |                         | Norbert   |
| 2/15/2004  | 1:30 PM  |    | X  | Police Dispatch   | 1301 N Huntington             | Stoppage, Sewer Backup     | Residential Lateral     | Norbert   |
| 2/16/2004  | 10:15 AM | X  |    | Police Dispatch   | Sewer Lift Station # 3        | Alarm, Vent Failure        |                         | Norbert   |
| 2/16/2004  | 1:15 PM  |    | X  | Police Dispatch   | 689 E Columbia                | Broken Lateral             | Residential Lateral     | Norbert   |
| 2/20/2004  | 10:00 AM | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, High Wet Well       |                         | John      |
| 2/21/2004  | 10:05 AM | X  |    | Police Dispatch   | Saticoy St. @ Bangor          | Sewer Spill                | Motorist R.V.           | John      |
| 2/25/2004  | 4:45 PM  |    | X  | Customer Service  | 1228 Murchison                | Stoppage , Sewer Backup    | Residential Lateral     | Gabriel   |
| 2/28/2004  | 7:00 AM  | X  |    | Water Stand By    | Auto Center Drive, cul-de-sac | Stoppage, Sewer Overflow   | City Main Line          | Gabriel   |
| 3/72004    | 1:00 AM  | X  |    | Police Dispatch   | 305 Arrow Hwy                 | Stoppage, Sewer Overflow   | Residential Lateral     | John      |
| 3/22/2004  | 1:50 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, Pump 1 Failure      |                         | John      |
| 3/20/2004  | 12:45 PM |    | X  | Police Dispatch   | Sewer Lift Station # 1        | Alarm, High Wet Well       |                         | John      |
| 3/29/2004  | 1:55 PM  |    | X  | Buisness Services | 1354 GroveSide Place          | Stoppage, Sewer Overflow   | Residential Septic Tank |           |
| 4/4/2004   | 2:15 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, Pump 1 Failure      |                         | John      |
| 4/16/2004  | 3:24 PM  |    | X  | Police Dispatch   | Sewr Lift Station # 2         | Alarm, Pump 1 Failure      |                         | Norbert   |
| 4/21/2004  | 6:00 PM  |    | X  | Water Standby     | Arrow Hwy @ Towne Ave         | Stoppage, Sewer Overflow   | Residential Lateral     | John      |
| 4/27/2004  | 2:30 AM  | X  |    | Police Dispatch   | Sewr Lift Station # 2         | Alarm, Power Failure       |                         | Gabriel   |
| 4/302004   | 9:45 AM  | X  |    | Admin. Grace      | 930 Hillcrest Dr.             | Stoppage, Sewer Overflow   | Residential Lateral     | John      |
| 4/30/2004  | 9:50 AM  | X  |    | Customer Service  | 930 Ashfield                  | Stoppage, Sewer Backup     |                         | Norbert   |
| 4/30/2004  | 12:30 PM |    | X  | Customer Service  | 204 Highgate                  | Stoppage, Sewer Backup     | Residential Lateral     | Gabriel   |
| 5/14/2004  | 2:15 AM  | X  |    | Police Dispatch   | Sewer Lift Station # 2        | Alarm, Pump Fail           |                         | Gabriel   |
| 5/14/2004  | 9:00 AM  | X  |    | Customer Service  | Sewer Lift Station # 2        | Alarm, High Wet Well       |                         | Gabriel   |

## City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                    | Reason                     | Responsibility           | Responder |
|------------|----------|----|----|------------------|----------------------------|----------------------------|--------------------------|-----------|
| 5/17/2004  | 12:15 AM | X  |    | Police Dispatch  | Sewr Lift Station # 3      | Alarm, Vent Fail           |                          | Gabriel   |
| 6/3/2004   | 6:00 PM  |    | X  | Police Dispatch  | 2491 Neptune               | Stoppage, Sewer Overflow   | City Main Line           | John      |
| 6/7/2004   | 5:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 3 Fail         |                          | John      |
| 8/19/2004  | 5:30 PM  |    | X  | Customer Service | 450 Archwood Ct.           | Stoppage, Sewer Overflow   | Residential Lateral      | Norbert   |
| 8/20/2004  | 1:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4     | Alarm, High Wet Well       |                          | Norbert   |
| 8/30/2004  | 6:45 PM  |    | X  | Police Dispatch  | Sewer Lift Station 1,2,3,4 | Power Failure              |                          | Gabriel   |
| 9/11/2004  | 5:51 PM  |    | X  | Police Dispatch  | 1515 W. Mission Blvd       | Stoppage, Sewer Overflow   |                          | Norbert   |
| 9/17/2004  | 10:30 AM | X  |    | Customer Service | 1280 E. Ninth St.          | Stoppage, Sewer Backup     | Residential Lateral      | Gabriel.  |
| 9/25/2004  | 4:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 1 Failure      |                          | John      |
| 10/1/2004  | 3:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 3 Failure      |                          | Gabriel   |
| 10/9/2004  | 1:00 AM  | X  |    | Police Dispatch  | Sewer Lift Satation # 3    | Alarm, Vent Failure        |                          | John      |
| 10/20/2004 | 2:10 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Power Failure       |                          | Norbert   |
| 10/26/2004 | 9:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Generator Failure   |                          | John      |
| 10/28/2004 | 12:30 AM | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Generator Failure   |                          | John      |
| 10/30/2004 | 1:05 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 4     | Alarm, High Wet Well       |                          | John      |
| 11/7/2004  | 7:20 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Pump & VFD Failure  |                          | Gabriel   |
| 11/11/2004 | 2:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 1, Failure     |                          | John      |
| 11/12/2004 | 2:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well       |                          | John      |
| 11/24/2004 | 12:20 PM |    | X  | Customer Service | # 10 Edgebrook             | Stoppage, Sewer Overflow   | None Found               | Gabriel   |
| 12/9/2004  | 4:10 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2     | Alarm, Pump 1 Fail         |                          | John      |
| 12/15/2004 | 9:05 PM  |    | X  | Police Dispatch  | 2509 Kimball Ave.          | Stoppage, Sewer Backup     | Residential Lateral      | Gabriel   |
| 12/18/2004 | 12:30 PM |    | X  | Police Dispatch  | 2509 Kimball Ave.          | Stoppage, Sewer Backup     | Residential Lateral      | Gabriel   |
| 12/21/2004 | 5:00 PM  |    | X  | Customer Service | 1896 Wright St.            | Stoppage Ser Backup        | Residential Lateral      | Norbert   |
| 12/24/2005 | 12:00 PM |    | X  | Police Dispatch  | 1624 W Orange Grove        | Stoppage, Sewer Backup     | Residential Lateral      | Norbert   |
| 12/25/2004 | 11:00 AM | X  |    | Police Dispatch  | Sewer Lift Staion # 4      | Alarm, High Wet Well       |                          | John      |
| 12/26/2004 | 7:07 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Vent Failure        |                          | Norbert   |
| 12/26/2004 | 3:50 PM  |    | X  | Police Dispatch  | 365 W Arrow Hwy            | Stoppage, Sewer Backup     | Residential Lateral      | Norbert   |
| 12/29/2004 | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Vent Failure        |                          | Johnny    |
| 12/31/2004 | 8:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well       |                          | Johnny    |
| 1/2/2005   | 1:35 AM  | X  |    | Police Dispatch  | 742 E. Kingsley            | Stoppage, Sewer Backup     | Residential Lateral      | Johnny    |
| 1/4/2005   | 5:00 PM  |    | X  | Police Dispatch  | 45 Rising Hill             | Explosion in Manhole       | No Evidence/Damage Found | Gabriel   |
| 1/5/2005   | 6:00 PM  |    | X  | Police Dispatch  | 557 W Orange Grove         | Manhole Structure Failure  | Contractor/City          | Gabriel   |
| 1/6/2005   | 5:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well       |                          | Gabriel   |
| 1/8/2005   | 7:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3     | Alarm, Vent Failure        |                          | Gabriel   |
| 1/10/2005  | 6:25 AM  | X  |    | Police Dispatch  | 2957 Sterling              | Stoppage, Sewer Backup     | Residential Lateral      | Gabriel   |
| 1/16/2005  | 9:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well       |                          | Johnny    |
| 1/16/2005  | 12:30 PM |    | X  | Police Dispatch  | 274 W. Phillips            | Stoppage, Sewer Backup     | Residential Lateral      | Norbert   |
| 1/17/2005  | 8:50 AM  | X  |    | Police Dispatch  | 274 W. Phillips            | Stoppage, Sewer Backup     | Residential Lateral      | Johnny    |
| 1/21/2005  | 3:45 PM  |    | X  | Customer Service | 1329 W. Mission Blvd.      | Stoppage, Sewer Backup     | Residential Lateral      | Johnny    |
| 1/29/2005  | 7:00 PM  |    | X  | Police Dispatch  | 1215 S. Hamilton           | Stoppage, Sewer Backup     | Residential Lateral      | Gabriel   |
| 2/4/2005   | 3:30 PM  |    | X  | Police Dispatch  | Orange Grove               | Stoppage, Sewer Backup     | Contractor/City          | Norbert   |
| 2/19/2005  | 5:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1     | Alarm, High Wet Well       |                          | Gabriel   |
| 3/1/2005   | 12:10 AM | X  |    | Police Dispatch  | Sewer Lift Station # 2 & 4 | Alarm, Failure To Check In |                          | Johnny    |
| 3/12/2005  | 8:30 PM  |    | X  | Police Dispatch  | Buena Vista & Grand Ave.   | Sewer Trench Failure       | City                     | Gabriel   |



## City of Pomona Wastewater Emergency Calls

| Date      | Time     | AM | PM | Notified By      | Address                     | Reason                    | Responsibility             | Responder |
|-----------|----------|----|----|------------------|-----------------------------|---------------------------|----------------------------|-----------|
| 3/18/2005 | 9:45 AM  | X  |    | Customer Service | 2315 S. Reservoir           | Water Leak                | City, Water Standby        | Norbert   |
| 3/22/2005 | 10:30 PM |    | X  | Police Dispatch  | 1094 E.Grand Ave.           | Water Leak                | City, Water Standby        | Johnny    |
| 3/23/2005 | 2:30 PM  |    | X  | Water 14         | Olive & Garey Ave.          | Stoppage, Sewer Overflow  | City Main Line             | Johnny    |
| 3/27/2005 | 9:20 AM  | X  |    | Police Dispatch  | 1800 Blk of N. Orange Grove | Stoppage, Sewer Overflow  | None Located               | Johnny    |
| 4/1/2005  | 3:40 PM  |    | X  | Customer Service | 143 Alvarado                | Stoppage, Sewer Backup    | Residential Lateral        | Gabriel   |
| 4/15/2005 | 12:50 PM |    | X  | Customer Service | Vejar Elementary School     | Broken Sewer              | Private Property, School   | Norbert   |
| 4/15/2005 | 12:50 PM |    | X  | Customer Service | 2431 Lyndale                | Stoppage , Sewer Backup   | Residential Lateral        | Norbert   |
| 4/17/2005 | 9:00AM   | X  |    | Water Standby    | 265 Eastend                 | Missing Manhole Cover     | City                       | Norbert   |
| 4/30/2005 | 2:15 PM  |    | X  | Police Dispatch  | 1319 Hamilton Blvd.         | Foul Odor                 | Residential Lateral        | Gabriel   |
| 5/9/2005  | 10:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 1      | Alarm, Equipment Failure  |                            | Gabriel   |
| 5/22/2005 | 2:10 PM  |    | X  | Police Dispatch  | 1703 Westwood Ln.           | Water Leak                | City, Water Standby        | Norbert   |
| 5/27/2005 | 9:30 AM  | X  |    | Customer Service | 1626 Viola Pl.              | Stoppage Sewer Backup     | Residential Lateral        | Gabriel   |
| 6/18/2005 | 3:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Norbert   |
| 6/18/2005 | 5:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Open Station for LACSD    |                            | Johnny    |
| 6/24/2005 | 12:15 PM |    | X  | Customer Service | 1741 Buchanan               | Stoppage, Sewer Backup    | Residential Lateral        | Gabriel   |
| 6/24/2005 | 1:50 PM  |    | X  | Customer Service | 1344 Reservoir              | Stoppage, Sewer Backup    | Residential Lateral        | Gabriel   |
| 7/2/2005  | 12:50 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4      | Alarm, High Wet Well      |                            | Norbert   |
| 7/6/2005  | 3:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Johnny    |
| 7/7/2005  | 2:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm,Pump 1 Failure      |                            | Johnny    |
| 7/13/2005 | 6:15 PM  |    | X  | Utility Services | 2202 Encino Place           | Stoppage, Sewer Overflow  | False Alarm, Parks/Streets | Gabriel   |
| 8/8/2005  | 2:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/17/2005 | 5:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/18/2005 | 4:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/27/2005 | 3:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/27/2005 | 5:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/27/2005 | 2:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 8/31/2005 | 4:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 9/2/2005  | 11:30 AM | X  |    | Police Dispatch  | 1221 Canyon Way             | Stoppage, Sewer Overflow  | Residential Lateral        | Norbert   |
| 9/2/2005  | 2:08 PM  |    | X  | Police Dispatch  | Inter. Ford & Garey Ave     | Loose Manhole Cover       | County Sanitation District | Norbert   |
| 9/4/2005  | 2:55 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Norbert   |
| 9/5/2005  | 2:15 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Norbert   |
| 9/8/2005  | 1:05 AM  | X  |    | Police Dispatch  | 698 E. Alvarado             | Stoppage, Sewer Backup    | Residential Lateral        | Johnny    |
| 9/9/2005  | 9:00 AM  | X  |    | Police Dispatch  | 1249 & 1285 Laurel          | Stoppage, Sewer Backup    | Residential Lateral        | Johnny    |
| 9/10/2005 | 10:00 AM | X  |    | Norbert          | 1230 Hillcrest Drive        | Follow-up Main Line Check |                            | Johnny    |
| 9/11/2005 | 10:00 AM | X  |    | Norbert          | 1230 Hillcrest Drive        | Follow-up Main Line Check |                            | Johnny    |
| 9/14/2005 | 3:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 9/14/2005 | 10:00 PM |    | X  | Police Dispatch  | 770 Rex Ct.                 | Stoppage, Sewer Backup    | Residential Lateral        | Gabriel   |
| 9/16/2005 | 4:00AM   | X  |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Gabriel   |
| 9/16/2005 | 12:00 PM |    | X  | Customer Service | 1678 Blueridge              | Stoppage, Sewer Backup    |                            | Gabriel   |
| 9/17/2005 | 10:00 AM | X  |    | Norbert          | 1230 Hillcrest Drive        | Follow-up Main Line Check |                            | Gabriel   |
| 9/18/2005 | 10:30 AM | X  |    | Norbert          | 1230 Hillcrest Drive        | Stoppage, Sewer Overflow  | City Main Line             | Gabriel   |
| 9/20/2005 | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3      | Alarm, Power Failure      |                            | Gabriel   |
| 9/30/2005 | 3:00 AM  |    |    | Police Dispatch  | Sewer Lift Station # 2      | Alarm, Pump 1 Failure     |                            | Johnny    |

## City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                             | Reason                   | Responsibility  | Responder |
|------------|----------|----|----|------------------|-------------------------------------|--------------------------|---|-----------|
| 10/13/2005 | 8:56 PM  |    | X  | Police Dispatch  | 738 E. Holt Ave.                    | Stoppage, Sewer Overflow | City Main Line, Caused overflow into 7/11 convenience store | Norbert   |
| 11/19/2005 | 1:15 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3 & # 4        | Alarm, Power Failure     |   | Gabriel   |
| 12/8/2005  | 3:40 PM  |    | X  | Customer Service | 218 Sherwood Pl                     | Sewer Backup             | Broken City Main  | Norbert   |
| 12/9/2005  | 8:00 AM  | X  |    | Scheduled Work   | 218 Sherwood Pl                     | Sewer Main Repair        | Broken City Main  | Gabriel   |
| 12/9/2005  | 5:10 PM  |    | X  | Customer Service | 3054 Dawnview                       | Stoppage, Sewer Backup   | Residential Lateral   | Gabriel   |
| 12/10/2005 | 7:00 AM  | X  |    | Scheduled Work   | 218 Sherwood Pl                     | Sewer Main Repair        | Broken City Main  | Norbert   |
| 12/13/2005 | 9:45 PM  |    | X  | Water Standby    | 989 W. Ninth St.                    | Stoppage, Sewer Backup   | Residential Lateral   | Norbert   |
| 12/15/2005 | 6:30 PM  |    | X  | Water Standby    | 864 N Towne Ave.                    | Stoppage, Sewer Backup   | Residential Lateral   | Norbert   |
| 12/27/2005 | 10:30 PM |    | X  | Police Dispatch  | 295 Monroe                          | Stoppage, Sewer Backup   | Residential Lateral   | Gabriel   |
| 1/1/2006   | 4:45 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump 1,Failure    |   | Gabriel   |
| 1/2/2006   | 10:35 AM | X  |    | Water Standby    | 987 E. Holt Ave                     | Stoppage, Sewer Backup   | Residential Lateral   | Norbert   |
| 1/2/2006   | 1:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2              | Alarm, High Wet Well     |   | Norbert   |
| 1/6/2006   | 2:35 PM  |    | X  | Police Dispatch  | 2124 N. Orange Grove ave.           | Stoppage, Sewer Backup   | Residential Lateral   | Norbert   |
| 1/7/2006   | 9:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, High Wet Well     |   | Norbert   |
| 1/16/2006  | 10:45 AM | X  |    | Police Dispatch  | 510 E. Third St.                    | Stoppage, Sewer Backup   | Residential Lateral   | Johnny    |
| 1/16/2006  | 6:00 PM  |    | X  | Water Standby    | Pomona Blvd.                        | Vacuum Water for Dist.   |   | Johnny    |
| 1/21/2006  | 5:30 PM  |    | X  | Police Dispatch  | 359 Preciado                        | Stoppage, Sewer Backup   | Residential Lateral   | Johnny    |
| 1/24/2006  | 6:25 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, High Wet Well     |   | Norbert   |
| 1/29/2006  | 7:50 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3              | Alarm, Vent Failure      |   | Norbert   |
| 1/31/2006  | 6:20 AM  | X  |    | Police Dispatch  | Sewer Lift Satation # 2             | Alarm, High Wet Well     |   | Johnny    |
| 2/3/2006   | 8:25 AM  | X  |    | Customer Service | 805 E. Ninth St                     | Stoppage, Sewer Backup   | Residential Lateral   | Johnny    |
| 2/4/2006   | 2:00 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump 1, Failure   |   | Johnny    |
| 2/4/2006   | 9:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump 1, Failure   |   | Johnny    |
| 2/8/2006   | 12:40 AM | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, High Wet Well     |   | Gabriel   |
| 2/11/2006  | 12:45 PM |    | X  | Police Dispatch  | Sewer Lift Station # 3              | Alarm, Pump Failure      |   | Gabriel   |
| 2/27/2006  | 7:00 AM  | X  |    | Police Dispatch  | 1991 Phillips Blvd.                 | Stoppage, Sewer Backup   | Public Works, Storm Drain                                   | Gabriel   |
| 2/28/2006  | 11:00 AM | X  |    | Police Dispatch  | Caswell @ Lincoln                   | Lost Keys to Manhole     | Public Works, Storm Drain                                   | Gabriel   |
| 3/3/2006   | 2:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump Failure      |   | Gabriel   |
| 3/5/2006   | 2:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump Failure      |   | Gabriel   |
| 3/12/2006  | 3:00 AM  |    |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, High Wet Well     |   | Norbert   |
| 3/14/2006  | 4:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 1              | Alarm, High Wet Well     |   | Johnny    |
| 3/17/2006  | 8:30 AM  | X  |    | Police Dispatch  | 200 Thomas St.                      | Water Leak @ Manhole     | None located at site  | Johnny    |
| 3/17/2006  | 11:15 AM | X  |    | Police Dispatch  | 1350 Groveside St.                  | Illegal dumping into MH  |   | Johnny    |
| 3/18/2006  | 4:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump 1 Failure    |   | Johnny    |
| 3/22/2006  | 1:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 2              | Alarm, Pump 1 Failure    |   | Johnny    |
| 3/23/2006  | 4:29 PM  |    | X  | Customer Service | 725 E Grand Ave                     | Stoppage, Sewer Backup   | Residential Lateral   | Gabriel   |
| 4/14/2006  | 3:30 PM  |    | X  | Customer Service | 350 N. Reservoir St                 | Stoppage, Sewer Backup   | Residential Lateral   | Gabriel   |
| 4/30/2006  | 10:30 AM | X  |    | Police Dispatch  | 1717 Phillips Drive                 | Stoppage, Sewer Overflow | City Main Line  | Gabriel   |
| 5/15/2006  | 8:05 PM  |    | X  | Police Dispatch  | 2965 N. San Antonio                 | Overflow                 | County Sanitation District                                  | John      |
| 5/17/2006  | 8:20 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3              | Alarm, Power Failure     |   | John      |
| 5/20/2006  | 12:15 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4              | Alarm, High Wet Well     |   | John      |
| 6/2/2006   | 7:00 PM  |    | X  | Police Dispatch  | Inter. Rolling Hills/Quail Creek Rd | Stoppage, Sewer Overflow | City Main Line  | Norbert   |

### City of Pomona Wastewater Emergency Calls

| Date       | Time     | AM | PM | Notified By      | Address                        | Reason                     | Responsibility      | Responder |
|------------|----------|----|----|------------------|--------------------------------|----------------------------|---------------------|-----------|
| 6/10/2006  | 1:00 PM  |    | X  | Police Dispatch  | 1230 Hillcrest Dr.             | Stoppage, Sewer Overflow   | City Main Line      | John      |
| 6/12/2006  | 5:00 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1         | Alarm, Gas Alarm           |                     | Gabriel   |
| 6/19/2006  | 7:30 PM  |    | X  | Police Dispatch  | Monterey Ave E. of Garey Ave   | Manhole Cover Missing      |                     | Norbert   |
| 6/28/2006  | 6:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Alarm, Pump 1 Failure      |                     | John      |
| 7/6/2006   | 7:00 PM  |    | X  | Scheduled Work   | Sewer Lift Station # 1         | Check Station Status       |                     | Gabriel   |
| 7/7/2006   | 9:00 AM  | X  |    | Scheduled Work   | Sewer Lift Station # 2         | Check Station Status       |                     | Gabriel   |
| 7/7/2006   | 3:15 PM  |    | X  | LACSD            | 2338 S. San Antonio            | Debris Cleanup Near MH     |                     | Gabriel   |
| 7/22/2006  | 2:30 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Alarm, Power Failure       |                     | Gabriel   |
| 7/22/2006  | 5:55 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Alarm, Pump 2 Failure      |                     | John      |
| 7/22/2006  | 8:50 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Alarm, Pump 1,2,3 Failure  |                     | John      |
| 7/29/2006  | 12:45 PM |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Alarm, High Wet Well, Gas  |                     | Gabriel   |
| 8/2/2006   | 5:47 PM  |    | X  | Police Dispatch  | Sewer Lift Station # 1         | Alarm, High Wet Well       |                     | John      |
| 8/4/2006   | 1:15 PM  |    | X  | Customer Service | 463 W. Monterey Ave            | Stoppage, Sewer Backup     | Residential Lateral | Gabriel   |
| 8/8/2006   | 10:15 PM |    | X  | Police Dispatch  | Inter. Mission Blvd/Temple Ave | Stoppage, Sewer Overflow   | City Main Line      | Norbert   |
| 8/9/2006   | 2:30: AM | X  |    | Police Dispatch  | Sewer Lift Station # 2         | Alarm, Power Failure       |                     | Norbert   |
| 8/25/2006  | 6:25 AM  |    | X  | Police Dispatch  | Sewer Lift Station # 1         | Alarm, High Wet Well       |                     | John      |
| 8/30/2006  | 5:30 AM  | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Alarm, High Wet Well       |                     | Gabriel   |
| 9/12/2006  | 5:45     |    | X  | Police Dispatch  | Sewer Lift Station # 1         | Alarm, High Wet Well       |                     | Norbert   |
| 9/25/2006  | 8:08     |    | X  | Police Dispatch  | Sewer Lift Station # 3         | Alarm, PLC Failure         |                     | John      |
| 9/30/2006  | 3:15     | X  |    | Police Dispatch  | Sewer Lift Station # 3         | Alarm, High Wet Well       |                     | John      |
| 10/16/2006 | 6:15     |    | X  | Police Dispatch  | 615 Hobson Ct.                 | Stoppage, Sewer Backup     | Residential Lateral | Gabriel   |
| 10/23/2006 | 4:00     | X  |    | Police Dispatch  | Sewer Lift Stations # 1,2,3,4  | Alarm, Power Failure       |                     | Gabriel   |
| 11/9/2006  | 3:10     |    | X  | Customer Service | 384 Artesia                    | Stoppage, Sewer Backup     | Residential Lateral | Gabriel   |
| 11/11/2006 | 7:00     |    | X  | Police Dispatch  | # 7 Navajo Trail               | Stoppage, Sewer Backup     | Residential Lateral | Gabriel   |
| 12/21/2006 | 4:35     |    | X  | Norbert B.       | 1627 Jess St.                  | Stoppage, Sewer Backup     | Residential Lateral | John      |
| 12/22/2006 | 9:45     | X  |    | Assist. City MGR | 1628 Jess St.                  | Stoppage, Sewer Backup     | Residential Lateral | John      |
| 12/23/2006 | 12:45    |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Alarm, High Wet Well       |                     | John      |
| 12/29/2006 | 3:50     |    | X  | Police Dispatch  | 1135 E. Olive St               | Water Leak @ Meter Box     |                     | John      |
| 1/13/2007  | 5:30     |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Alarm, High Wet Well       |                     | John      |
| 1/15/2007  | 1:58     |    | X  | Police Dispatch  | 1997 W. Phillips Dr.           | Stoppage, Sewer Overflow   | City Main Line      | John      |
| 1/23/2007  | 5:00     |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Alarm, Failure To Check In |                     | John      |
| 1/30/2007  | 4:35     |    | X  | Pomona           | Sewer Lift Station # 3         | Alarm, Power Failure       |                     | Gabriel   |
| 2/8/2007   | 10:11    |    | X  | Police Dispatch  | 564 E Alvarado                 | Odor Complaint             |                     | Norbert   |
| 3/14/2007  | 10:15    |    | X  | Police Dispatch  | 1780 Phillips Blvd             | Missing Manhole Lid        | (Storm Drain)       | Gabriel   |
| 3/21/2007  | 4:50     | X  |    | Police Dispatch  | Sewer Lift Satation # 3        | Alarm, Pump Fail           |                     | Norbert   |
| 3/24/2007  | 2:30     |    | X  | Steve Paz        | Inter. Grand Ave/Buena Vista   | Sink Hole                  | City                | Norbert   |
| 3/31/2007  | 1:30     |    | X  | Police Dispatch  | 861 N. Towne Ave               | Sewer lateral leak         | City/Contractor     | Gabriel   |
| 4/1/2007   | 7:30     | X  |    | Follow Up Call   | 861 N. Towne Ave               | Sewer lateral leak         | City/Contractor     | Gabriel   |
| 4/17/2007  | 9:15     | X  |    | Customer Service | 1739 San Bernardino Ave        | Stoppage, Sewer Overflow   | City Main Line      | John      |
| 5/7/2007   | 5:30     |    | X  | Police Dispatch  | Sewer Lift Station # 4         | Alarm, Power Failure       |                     | Gabriel   |
| 5/11/2007  | 3:00     |    | X  | Customer Service | 381 W. Arrow Hwy               | Stoppage, Sewer Backup     | Residential Lateral | Gabriel   |
| 5/25/2007  | 7:30     | X  |    | Police Dispatch  | Sewer Lift Station # 4         | Alarm, Gas Alarm           |                     | Norbert   |

### City of Pomona Wastewater Emergency Calls

| Date      | Time | AM | PM | Notified By     | Address                | Reason                         | Responsibility  | Responder |
|-----------|------|----|----|-----------------|------------------------|--------------------------------|---|-----------|
| 5/27/2007 | 7:30 |    | X  | Police Dispatch | 1725 Waters St         | Water overflowing from Manhole | Water Service leak contacted PD, requested Distribution standby be called out | Norbert   |
| 5/30/2007 | 6:00 |    | X  | LACSD           | Sewer Lift Station # 4 | Water Sample (Witness)         |   | Gabriel   |
| 5/31/2007 | 8:30 |    | X  | Norbert B.      | Sewer Lift Station # 4 | Check Force Main (Leak)        |   | Gabriel   |
| 6/3/2007  | 8:00 |    | X  | Norbert B.      | Sewer Lift Station # 4 | Check Force Main (Leak)        |   | Gabriel   |
| 6/15/2007 | 6:15 |    | X  | Police Dispatch | Sewer Lift Station # 3 | Alarm, PLC Failure             |   | Norbert   |
| 6/16/2007 | 4:20 |    | X  | Police Dispatch | Sewer Lift Station # 3 | Alarm, PLC Failure             |   | Norbert   |
| 6/16/2007 | 8:40 |    | X  | Long Beach Main | Sewer Lift Station # 3 | Alarm, PLC Failure             |   | Norbert   |

Reportable Spills  
 Non-Reportable Spills

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**Appendix F**  
**FOG Control Program**

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# **CITY OF POMONA FATS, OILS, AND GREASE CONTROL PROGRAM**

**May 2008  
Updated October 2013**

**Prepared For:**



**The City of Pomona  
Utility Services Department  
148 North Huntington Street  
Pomona, California 91768**



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- Attachment B – Best Management Practices
- Attachment C – BMP Training Log
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- Attachment F – Food Service Establishment Waste Discharge Permit Application
- Attachment G – Public Outreach

# Chapter 1

## Introduction

---

SSOs have recently become a major concern to wastewater agencies across the State of California. There are several factors that contribute to the periodic failures of wastewater collections systems that may potentially result in the occurrence of an SSO. SSOs can be attributed to many causes, including high concentrations of fats, oils, and grease (FOG), roots, poor conditions of the wastewater collection system lines, wet weather flows, or a combination of the causes. It has been estimated that more SSOs are caused by FOG than by any other factor, prompting state and local regulating agencies to focus on FOG Control Program development as a key element of Wastewater Discharge Requirements (WDRs).

This FOG Control Program establishes the formal procedures City staff implements to effectively reduce the direct or indirect discharge of all wastewater or waste containing FOG into the City's wastewater collection system. Chapter 1 provides an overview of a FOG Control Program, the purpose and goals of the program, the regulatory authority requiring this program, an overview of this document's organization, and definitions of terms contained in this document.

### 1.1 FOG Program Overview

To manage and control, in a cost effective manner, the discharge of FOG into the City's wastewater collection system to the maximum extent practicable, a FOG Control Program must include comprehensive policies and procedures to address all aspects of potential FOG contribution to the wastewater collection system.

A FOG Control Program documents the processes and procedures an agency implements to ensure that SSOs caused by the discharge of FOG are minimized and potentially eliminated. The FOG Control Program also includes informing residents and business owners on how to properly dispose of FOG. Proper disposal of FOG is important since it can accumulate in the sewer system and eventually block collection pipes and sewer lines, resulting in backups and overflows on streets, properties and even in private residences. Sewer overflows are unsanitary and negatively impact the environment. They are costly to agencies and the rate payers since the expense of cleaning up and repairs associated with improper disposal of FOG can lead to increased sewer rates.

### 1.2 Purpose and Goals

The purpose of developing a FOG Control Program is to facilitate the maximum beneficial public use of the City's wastewater collection system while preventing blockages of sewer lines and pump stations, reducing the adverse affects on sewage treatment operations resulting from discharges of FOG into the system, and specifying appropriate FOG discharge requirements for Food Service Establishments (FSEs) discharging into the City's sewer system.

# Introduction

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The primary goal of a FOG Control Program is to reduce SSOs and blockages and protect public health and the environment by minimizing public exposure to unsanitary conditions. A FOG Control Program includes control mechanisms that will establish regulations and policies for the disposal of FOG from FSEs. By controlling the FOG discharge into the wastewater collection system, FOG buildup in the system can be lessened, thereby increasing the system operating efficiency and reducing the number of sewer line blockages and overflows. In addition, an effective FOG Control Program can minimize revenue losses associated with maintenance activities to remove FOG from the collection system, reactionary enforcement actions and the impacts of restricting public activities, such as roadway closures to respond to a FOG related SSO or closures of public access facilities.

## 1.3 Elements of the FOG Control Program

The FOG Control Program is intended to provide the City with a comprehensive document that includes components necessary to reduce the quantity of FOG discharged into the City's wastewater collection system to achieve the goal of minimizing SSOs due to excessive FOG. Implementation of a long-term FOG Control Program includes various elements of controls for all new and existing FSEs. Elements of the FOG Control Program include the following:

- Kitchen Best Management Practices
- Grease Trap Installation, Operation and Maintenance Requirements
- Grease Interceptor Installation, Operation and Maintenance Requirements
- Notification Requirements
- Record Keeping and Reporting Requirements
- Permits and Enforcement
- Drawing Submittals
- Public Education

Implementation of control mechanisms require preparation of and/or revisions to FOG Ordinances and FOG related permits, which serve to define general prohibitions and restrictions on discharges, facility requirements, administrative requirements, procedures for recovering costs associated with FOG discharges and blockages, and enforcement tools for implementing the program.

## 1.4 Organization of this Document

This document provides the guidelines necessary for the City to implement a comprehensive FOG Control Program. It illustrates the participation required on behalf of City staff and the FSEs to allow for effectively managing and controlling the discharge of FOG into the City's wastewater collection system.

In addition to providing a summary of the elements of a FOG Control Program, Chapter 1 also contains information regarding the regulatory requirements and common acronyms and definitions used within the document.

Chapter 2 contains information of several basic elements of a FOG Control Program for which FSEs will be required and responsible to establish, implement and maintain.

Chapter 3 includes various recommended BMPs designed to effectively reduce the quantity of FOG discharged from FSEs into the City's wastewater collection system. Also included is information to effectively implement the recommended BMPs.

Chapter 4 includes information regarding the requirement for pretreatment of wastewater flows generated at FSEs prior to discharging into the City's wastewater collection system. Pretreatment includes installation of grease traps, grease interceptors or a City approved site specific pretreatment program in existing and new FSEs. It also includes maintenance and inspection requirements.

Chapter 5 addresses Food Service Establishment Waste Discharge Permit requirements by new and existing FSEs as well as the conditions for which waivers, variances, and mitigation fees will be granted.

Chapter 6 includes information regarding the inspection and various enforcement procedures that may be applied for compliance with the FOG Control Program.

Chapter 7 addresses the requirements for the submittal of development plans for new and remodeled facilities.

### 1.5 Regulatory Requirements

The EPA, in its general pretreatment regulations (40 CFR Part 403) and the City, in its municipal code (Sec 62-471), prohibit any user, including FSEs, from discharging solid or viscous pollutants, such as FOG wastes, in amounts which will cause obstructions (blockages) to the flow in the wastewater system and interfere with the operation of the wastewater system.

The following regulatory requirements establish the impetus for the City to develop a FOG Control Program, implement the elements, and thoroughly follow procedures to ultimately minimize the potential of SSOs due to the discharge of excessive FOG into the City's wastewater collection system.

**California Water Code Section 13271, California Code of Regulations:** Section 13271 of the California Water Code, Title 23 of the California Code of Regulations, prohibits the discharge of sewage and hazardous material into the waters of the State and requires the proper notification of authorized agencies in the event of an SSO. Entities which do not properly follow the requirements of this section may be found guilty of a misdemeanor and punished by fine, imprisonment, or both.

# Introduction

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**California Waste Discharge Requirements:** On May 2, 2006, the State Water Resources Control Board adopted the Statewide General Waste Discharge Requirements (WDRs) for Sanitary Sewer Systems, Order No. 2006-0003. The WDRs are applicable to all federal and state agencies, municipalities, counties, districts, and other public entities that own or operate wastewater collection systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to publicly owned treatment facilities in the state of California. Specifically, the WDRs require compliance with the provisions contained in Division 7 of the California Water Code as well as the additional provisions included with the WDRs which require the City to evaluate its service area to identify and assess FOG related problems. If it is determined that a FOG source control program is necessary, the City must prepare and implement a FOG Control Program. This FOG Control Program fulfills the requirement and documents the City's efforts to comply with the WDRs.

**Clean Water Act, Section 1251 of Chapter 33 of the United States Code:** In 1972, the federal Congress enacted the Federal Water Pollution Control Act, commonly known as the Clean Water Act (CWA). The CWA prohibits the discharge of pollutants, including sewage, into public waters of the United States. The federal government has the authority to enforce compliance with the CWA via specific permits, such as National Pollutant Discharge Elimination System (NPDES) permits, as well as court action such as administrative orders and consent decrees. The City of Pomona is not currently subject to an NPDES permit or any legal action initiated by the federal government.

## 1.6 Acronyms and Definitions

The following is a summary of acronyms and definitions typically used in a FOG Control Program. Also included are acronyms specific to the City of Pomona and its wastewater collection system.

### **BMP**

This is the acronym for Best Management Practices that includes schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the introduction of FOG to the wastewater collection facilities.

### **City Inspector**

This is a City staff member, contractor, or other individual retained by the City who performs inspections of FSEs and related facilities to determine compliance with City codes, ordinances, and permit conditions.

### **CSA**

This is the acronym for Compliance Schedule Agreement, which is an agreement executed between the City and an FSE found to be in noncompliance. The agreement specifies requirements for the FSE to follow to rectify the noncompliance issues.

### **COD**

This is the acronym for Chemical Oxygen Demand and shall mean a measure of the oxygen required to oxidize all compounds, both organic and inorganic in wastewater.

### **DEH**

This is the acronym for the Los Angeles County Department of Environmental Health. This County Department is responsible for permitting and inspecting FSEs.

### **FOG**

This is the acronym for Fats, Oils, and Grease including any substance such as a vegetable or animal product that is used in, or is a by product of, the cooking or food preparation process, and that turns or may turn viscous or solidifies with a change in temperature or other conditions.

### **FSE**

This is the acronym for Food Service Establishment. A Food Service Establishment is a place where food is prepared and served for consumption by the public. This includes commercial and non-commercial establishments. Bars that do not serve food and markets that sell exclusively pre-packaged food and/or unprocessed fruit or vegetables are typically not included.

### **Grease**

This is a liquid or solid material composed primarily of fats and oils from animal or vegetable sources.

### **Grease Interceptor**

This is a device, typically located underground and outside of a food service establishment, designed to collect and contain food wastes and FOG material from the waste stream while allowing the remaining wastewater to be discharged to the wastewater collection system.

### **Grease Hauler**

This is a person who collects the contents of a grease interceptor or trap, and transports it to an approved recycling or disposal facility.

### **Grease Trap**

This is a device, typically located under sinks inside food service establishments, designed to collect and contain food wastes and grease from the waste stream while allowing the remaining wastewater to be discharged to the wastewater collection system.

### **High Frequency Maintenance Sites**

These are areas in the sewer lines that have experienced SSOs or that must be cleaned or maintained frequently to avoid blockages of the sewer system.

### **LFPE**

This is an acronym for a Limited Food Preparation Establishment. LFPEs primarily provide beverage services and limited reheating of ready-to-eat food products.

### **NOV**

This is the acronym for Notice of Violation, which is a notice to the FSE owner or operator, provided by the City or its inspector, which identifies a violation of the Food Service Establishment Waste Discharge Permit, a request to schedule an inspection, or a request to provide information.

## **Introduction**

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### **Sewage**

This is any liquid waste or water borne solid waste resulting from residential, commercial, industrial, or institutional activities or uses.

### **SSO**

This is the acronym for Sanitary Sewer Overflow. It is the term for any overflow, spill, release, discharge, or diversion of sewage from a wastewater collection system.

### **Surface Waters**

These are all permanent and intermittent drainage ways, lakes, and reservoirs, either public or private, which are not man-made for the treatment of municipal, agricultural, or industrial waste, and which are wholly or partially within the boundaries of the City of Pomona. SSOs to storm drains tributary to surface waters shall be reported as discharges to surface waters.

### **Tri-TAC**

This is the acronym for the Technical Advisory Committee representing three California associations including League of California Cities, California Association of Sanitation Agencies, and California Water Environment Association.

### **TSS**

This is the acronym for Total Suspended Solids, which are solid materials, including organic and inorganic, that are suspended in liquid.

### **Waste Hauler or Liquid Waste Hauler**

This is any person carrying on or engaging in vehicular transport of waste as part of, or incidental to, any business for that purpose.

### **Wastewater**

This is any volume of untreated or partially treated sewage discharged from the wastewater collection system upstream of a wastewater treatment plant.

### **Wastewater Collection System**

This is any system of pipes, pump stations, sewer lines, etc., used to collect and convey sewage to a treatment plant. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, high-lines, etc.) are considered to be part of the wastewater collection system, and discharges of sewage to these facilities are not SSOs.

### **Waters of the United States**

These are all waters of the United States as defined in the Code of Federal Regulations, Volume 40, Section 122.2 (40 CFR 122.2) such as navigable waters, rivers streams, lakes, natural ponds, wetlands, etc., including tributaries to traditional navigable waters.

# Chapter 2

## Food Service Establishment Responsibilities

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According to the California Fats, Oils, and Grease Work Group, which is in an affiliation with Tri-TAC, it has been estimated that more SSOs are caused by excessive FOG than by any other factor. Therefore, active participation by the FSEs is imperative for the success of a FOG Control Program. This chapter includes a description of several basic elements that are part of a FOG Control Program for which each FSE is responsible.

FSEs shall be responsible for ensuring that, at a minimum, the following basic elements of a FOG Control Program are established and maintained.

- Kitchen Best Management Practices
- Grease Traps
- Grease Interceptors
- Notification
- Record Keeping and Reporting
- Compliance Schedule Agreement
- Food Service Establishment Waste Discharge Permit

The following sections describe these basic FSE responsibilities in more detail.

### 2.1 Kitchen Best Management Practices (BMPs)

BMPs are practices, procedures, and maintenance activities performed by FSE staff to reduce the FOG in the wastewater discharged to the City's wastewater collection system. Reducing the quantity of FOG discharged to the wastewater collection system reduces the potential for SSOs due to excessive FOG. Each FSE shall implement the BMPs as they pertain to handling and disposing wastes containing FOG. Kitchen BMPs are described in greater detail in Chapter 3.

### 2.2 Grease Traps

Grease traps are small grease control devices with manual grease removal, typically installed inside and above ground, generally cleaned and maintained by the FSE staff. A grease trap operates by gravity separation and uses a flow control device and baffles to allow the separation of floating FOG and settled solids. For the grease trap to perform correctly, the floating FOG and settled solids must be removed regularly, requiring frequent cleaning. The City of Pomona Municipal Code contains requirements for the installation and maintenance of a grease traps. The criteria for requiring the installation of a grease interceptor at new and existing FSEs is included in Chapter 4.



# Food Service Establishment Responsibilities

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## 2.3 Grease Interceptors

A grease interceptor is designed to use gravity to separate FOG from wastewater as the wastewater move through the chamber. To perform according to design specifications, the chamber required periodic cleaning and maintenance, including removal of accumulated FOG and solids, which must be disposed in a proper manner at regular intervals. The Pomona City Code contains requirements for the installation and maintenance of a grease interceptor by FSEs that may be a source of food fats and greases. The criteria for requiring the installation of a grease interceptor at new and existing FSEs is included in Chapter 4.

## 2.4 Notification

Occasionally, FOG-related SSOs occur and FSEs change ownership, expand, modify their fare, or close. These are key events that affect the City's monitoring and enforcement procedures for controlling FOG. As a result, each FSE shall be responsible for implementing the following notification procedures when necessary.

### 1) Notification of Spill and/or SSO

- a) In the event an FSE is unable to comply with the City Code and/or the FOG Control Program, due to a breakdown of equipment, accidents, or human error or the FSE has reasonable belief that its discharge will violate the conditions of the Food Service Establishment Waste Discharge Permit and/or the FOG Control Program, the FSE or its representative shall immediately notify:

#### **During Business Hours:**

City Customer Service  
(909) 620-2241

#### **During Non - Business Hours:**

Police Dispatch  
(909) 920-3744

- b) If the material discharged has the potential to cause or results in sewer blockage or an SSO, the FSE shall immediately notify:

#### **During Business Hours:**

City Customer Service  
(909) 620-2241

#### **During Non - Business Hours:**

Police Dispatch  
(909) 920-3744

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## Food Service Establishment Responsibilities

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- c) Confirmation of this notification shall be made in writing to the City's Wastewater Collection System Supervisor no later than five (5) working days from the date of the incident at the following address:

City of Pomona  
Public Works Department  
Wastewater Collection System Supervisor  
148 North Huntington Street  
Pomona, CA 91768

The written notification shall state the date of the incident, the reasons for the discharge or spill, what steps were taken to immediately correct the problem and what steps are being taken to prevent a recurrence.

- d) Such notification shall not relieve the FSE of any expense, loss, damage or other liability that may be incurred as a result of damage or otherwise arising out of a violation of the City codes or other applicable law.

### 2) Notification Regarding Change in Operations

The FSE shall notify the City's Wastewater Collection System Supervisor in writing at least 60 days prior to any facility expansion and/or remodeling or process modifications that may result in new or substantially increased FOG discharges or a change in the nature of the discharge. The FSE shall submit any information requested by the Wastewater Collection System Supervisor for evaluation of the effect of such expansion and/or remodeling or process modifications on the FSE's FOG discharge to the wastewater collection system. Additionally, the FSE shall notify the City's Wastewater Collection System Supervisor as soon as practicable, in the event of a change in ownership, sale, or cessation of operation. All notifications shall be sent to:

City of Pomona  
Public Works Department  
Wastewater Collection System Supervisor  
148 North Huntington Street  
Pomona, CA 91768

The written notification shall state:

- FSE name;
- Name and title of the FSE's contact person or person most knowledgeable concerning the facility expansion and/or remodeling or process modifications;
- Address and telephone number of the FSE;
- Date of the proposed facility expansion and/or remodeling or process modifications; and
- Reasons for the proposed facility expansion and/or remodeling or process modifications

# Food Service Establishment Responsibilities

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## 2.5 Record Keeping and Reporting Requirements

Each FSE shall be responsible for maintaining accurate and up-to-date records documenting cleaning and inspection of grease control devices. It is required that inspection and cleaning records be maintained on the premises for a minimum of two (2) years and made available to the City Inspector or designee for review upon inspection of the facility. It is considered a violation of the City code if the FSE fails to maintain and keep accurate and up-to-date records of all cleaning and maintenance of grease removal devices, removal of FOG wastes, and inspections performed by the City Inspector or designee.

Inspection records should, at a minimum, document the:

- Date of inspection
- Name of company and person that performed the inspection
- Estimated volume of FOG present at the time of inspection
- Signature of the manager or designee of the FSE.

Cleaning records should, at a minimum, document the:

- Date of maintenance
- Name of company and person that performed maintenance
- Estimated volume of FOG removed
- FOG disposal location
- Signature of the manager or authorized designee of the FSE for verification.

A manifest from the permitted waste hauler is an acceptable record, if it contains all of the above information. An example of a Grease Trap/Interceptor Maintenance Log is contained in Attachment A.

If there are multiple establishments discharging to an obstructed pipeline it will be assumed that those establishments not implementing BMPs contributed to the SSO.

## 2.6 Compliance Schedule Agreement

FSEs may be required to enter into a compliance schedule agreement (CSA) with the City. Criteria to require FSEs to enter into a CSA may include, but are not limited to: the conditions in the wastewater collection line that provides service to the FSE; the degree of conformance to BMPs by the FSE; and the compliance history of the FSE at the location of issue or other locations (has the FSE caused or contributed to wastewater system blockages at other establishments). Information included in a CSA may include, but not be limited to: specific BMPs used by the establishment (e.g. procedures to prevent discharges of waste FOG, waste FOG handling, storage, and disposal procedures); a description of the FSE operation; a description of the location and size of any grease interceptors and grease traps present; a

## **Food Service Establishment Responsibilities**

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description of how the grease interceptor or grease trap will be maintained (cleaned), including frequency of cleaning; and a description of how the FSE will comply with reporting requirements. Additional information regarding Compliance Schedule Agreements is provided in Chapter 6.

### **2.7 Food Service Establishment Waste Discharge Permit**

All FSEs requiring wastewater collection service are required to obtain an annual Food Service Establishment Waste Discharge Permit from the City when applying for or renewing its annual business license. The permit is legally binding and sets forth the terms, conditions, and criteria of the FOG Control Program. It is prepared and maintained under the authority of the City, and its provisions may be periodically modified. The Pomona City Code contains requirements for a Food Service Establishment Waste Discharge Permit for FSEs requiring connection to the City's wastewater collection system. Compliance with the permit conditions is required before issuing or renewing the permit. The City may elect to include specific conditions of approval prior to the issuance of a certificate of occupancy for any new construction or occupancy unless an FSE has complied with the ordinance. Additional information regarding permitting is included in Chapter 5.



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# Chapter 3

## Best Management Practices

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A fundamental component of the FOG Control Program is implementation of BMPs. This chapter contains several recommended operating procedures and guidelines designed to effectively reduce the amount of FOG discharged to the City's wastewater collection system and protect the public health and environment from the hazards presented by FOG-related SSOs.

### 3.1 Purpose of BMPs

BMPs are designed to assist facilities to comply with environmental regulations, prevent pollution, and serve to assist an FSE with development of procedures and/or practices, specific to the facility, that reduce the amount of FOG in their wastewater discharge.

#### Description and Applicability

BMPs are practices that focus on good housekeeping measures and operations management techniques and include a series of activities that effectively manage and control disposal of waste FOG generated from the operation of an FSE. FSEs shall use BMPs to control FOG in the discharge and to prevent obstructions to the flow in sewer mains.

#### Food Service Establishments (FSEs)

Benefit to FSEs includes the reduction of FOG and solids accumulation in grease traps and grease interceptors, thereby reducing the maintenance needs and costs of these control devices, and thus reducing the potential for the FSE to cause a blockage resulting in an SSO. BMPs assist the FSEs to reduce costs associated with pumping frequencies, plumbing maintenance costs and compliance with environmental and regulatory standards. Due to the variety of FSEs that generate FOG, the BMPs implemented at each site are tailored to best accommodate the requirements of each FSE.

### 3.2 Best Management Practices

There are various simple and effective practices that an FSE can implement to prevent and reduce the quantity of FOG discharged into the wastewater collection system. At a minimum, all FSEs are required to implement enforceable BMPs. Acceptable BMPs are established as a City policy and are included in Attachment B. The following BMPs are provided to assist FSEs with the development of site specific procedures and/or practices to reduce the amount of FOG in their wastewater discharge.

- **Trash Disposal:** Dispose of food waste and fatty scraps into the trash or garbage bin. Do not discard into sink. Use plastic trash bags to prevent leaks and odors. Double-bag waste that has the potential to leak in trash bins. Ensure trash bins are covered when not in use and notify trash hauler if bin leaks.



## Best Management Practices

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- **Pre-Wash:** Before washing pots, pans, dishware, floor mats, and/or work areas, dry wipe or scrape food scraps and dispose of them in the trash.
- **Use of Drain Screens:** Install removable screens on all drainage pipes in food preparation areas. Keep screens in sinks and floor drains clean and in good repair. Dispose of collected solids in trash: not down the drain.
- **Yellow Grease Disposal:** Dispose of grease and oil from cooking equipment (pots, pans, and fryers) by pouring waste oil and yellow grease into covered containers (drums or barrels) for storage and recycling. Provide secondary containment to capture any liquid grease or oil that may spill from the primary container. Use a licensed waste hauler or recycling facility to dispose of liquid grease and oil before the container is full. Keep a written log with manifests and invoices of waste oil pick ups to show the City's authorized inspector who inspects the site.
- **Mat Cleaning:** Clean and wash floor mats in a utility mop sink. Empty mop water into a sink or drain connected to a grease interceptor, if present. DO NOT empty mop or wash water into storm drains.
- **Hood Cleaning:** Clean hoods and filters as frequently as necessary to maintain good operating condition and only clean them in sinks that flow to grease control devices. Use a licensed waste hauler to dispose of wastewater collected from cleaning hoods and filters.
- **Spill Prevention:** Place absorbent materials, such as paper towels or pads, under fryer baskets and in other areas where grease may drip or spill during cooking and frying or during the transfer of grease to storage or disposal containers.
- **Spill Kits:** Maintain a spill kit, accessible for use by employees, which includes absorbent pads, kitty litter or an equivalent absorbing material, and paper towels. Require the use of the spill kit to clean up spilled fats, oils, and grease.
- **Super Hot Water:** DO NOT pump water hotter than 140°F through a grease control device.
- **Employee Training:** Post signs to show kitchen best management practices in food preparation, dishwashing, and maintenance areas.

Additionally, to ensure that the building drains and sanitary service lines are properly maintained to avoid FOG and debris accumulation that may result in or contribute to SSOs, it is recommended that FSEs have their building drains and service lines professionally cleaned at least once per year.

### 3.3 Implementation of BMPs

The success of a BMP program requires proper implementation and continual re-enforcement of the adopted BMPs.

### Employee Training and Awareness

The effectiveness of BMPs is largely dependent upon the training of employees on the proper BMP implementation methods of BMPs for FOG waste handling and disposal.

To promote effective and proper employee implementation, each FSE should at a minimum:

- Train employees on the BMPs adopted for their establishment. Maintain and routinely update a training log and keep on site; (See Attachment C for an example.)
- Provide constant reinforcement on proper disposal of FOG with employees; and
- Post “No Grease” and BMP signs near sinks and dishwashers. Signs should be written in the language(s) that is commonly spoken by employees.

Posting signs at key locations serves to remind employees of the adopted BMPs and reinforce the importance of proper and continual implementation. Routine training ensures that all new employees are properly trained and that existing employees receive updated information. Training of employees should include information on the potential environmental and facility impacts of grease in the wastewater collection system. An example of an Employee BMP Training Log is included in Attachment C to document routine training at the FSE.

### Inspections

Routinely scheduled inspections by the City Inspector or designee to inspect FSEs for proper implementation of BMPs serves to re-enforce the importance of limiting FOG discharge into the City’s wastewater collection system and reduce the potential of SSOs due to excessive FOG. Maintaining an accurate and up-to-date training log on site ensures that employees are trained on the proper FOG handling and disposing methods and that the adopted BMPs are implemented. Since the BMPs may vary by establishment, inspection of only the BMPs applicable to the facility will be performed. A BMP Inspection Compliance Check List is included in Attachment D.



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# Chapter 4

## FOG Control Devices

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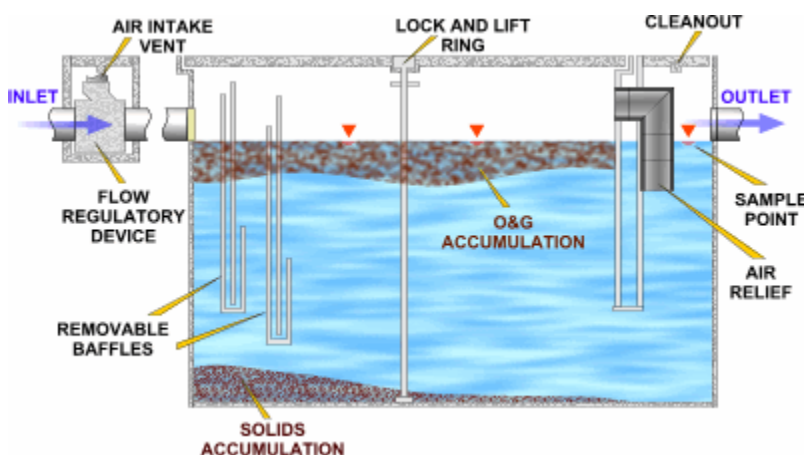
Pretreatment of wastewater flows generated at FSEs reduces excessive amounts of FOG from the wastewater prior to being discharged into the City's wastewater collection system. A pretreatment program requires FOG producing FSEs to install the appropriate type and size of pretreatment device. Though it would be ideal to require all FSEs to install grease traps or comparable FOG control devices, considerations should be made for existing FSEs. Alternative oil and grease removal technologies shall be subject to written approval by the City's Utility Services Director or the Director's designee. The device approved for the collection, filtration, and storage of FOG must be regularly and appropriately maintained.

This chapter describes acceptable pretreatment devices, including grease traps and grease interceptors. Grease traps, grease interceptors, or other approved grease control devices deemed necessary by the City Utility Services Director shall be installed solely at the FSE's expense. Proper operation, maintenance, and repair of grease interceptors, grease traps, or other approved pretreatment devices shall be performed solely at the FSE's expense.

### 4.1 Grease Traps

Grease traps are small devices installed inside a facility and connected directly to the outgoing drains of sinks. Grease traps are designed to separate and retain grease from the wastewater generated by the FSE. Figure 4-1 illustrates the common components of a grease trap.

**Figure 4-1**  
**Typical Grease Trap**



## FOG Control Devices

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Typically, grease traps are installed in kitchens under the floor or near the sink, and are much smaller than grease interceptors. Since grease traps hold small quantities of captured FOG, such traps must be cleaned frequently.

For grease traps to be effective, the units must be properly sized, constructed, and installed in a location to provide easy access for cleaning and an adequate retention time for settling and accumulation of the FOG.

### Installation Requirements

An FSE may use or may be required to install grease traps, in lieu of installation of a grease interceptor when:

- Installation of an interceptor can not physically be accomplished;
- There is not adequate slope for gravity flow between a proposed grease interceptor and the private collection lines or the public sewer; and
- No alternative pretreatment device can be installed.

Sizing and installation of grease traps shall be per the manufacturer's recommendations and conform to the latest edition of the California Plumbing Code. A Grease Trap and Interceptor Installation Checklist is included in Attachment E.

### Maintenance Requirements

Businesses shall be responsible for performing adequate testing and monitoring to ensure that the grease traps are functioning properly. Minimum grease trap operation and maintenance requirements include the following:

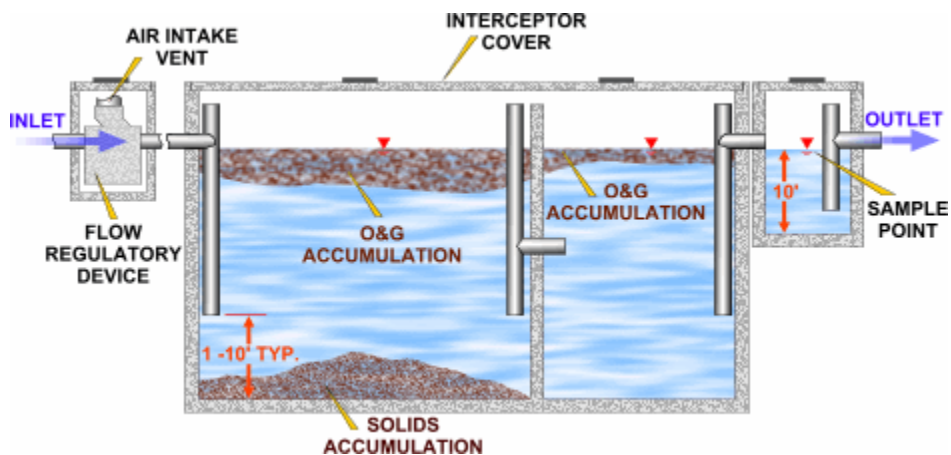
- Grease traps shall generally be operated and maintained in accordance with the manufacturer's specifications.
- Grease traps shall be maintained in efficient operation conditions by removing accumulated grease on an as needed basis, or the frequency specified by the manufacturer, but not less than on a weekly basis.
- Grease traps shall be inspected periodically, but in no event less than once a month, to check for leaking seams and pipes, and for effective operation of the baffles and flow-regulating device. Grease traps and their baffles shall be maintained free of all caked-on FOG and waste. Removable baffles shall be removed and cleaned during the maintenance process.
- Dishwashers and food waste disposal units shall not be connected to or discharged into any grease trap.
- All FSEs that are required to install and maintain a grease trap shall maintain a maintenance record that documents the cleaning activities for the grease traps. Records should include the name of employee who performed the cleaning, date/time of cleaning, amount of grease removed, and the disposal location for the grease and shall be kept on site for a minimum of two (2) years.

All maintenance records shall be made available to the City's Inspector at the time of inspection and/or the City Inspector's request.

## 4.2 Grease Interceptors

The installation and maintenance of a grease interceptor is an important measure for ensuring that the FSE does not contribute to potential problems of the wastewater collection system. Grease interceptors are located outside, underground and include a multi-compartment tank that serves to reduce the quantity of FOG in the wastewater before discharging into the wastewater collection system. Grease interceptors typically include two compartments that function to physically separate, remove, and retain FOG and solids from wastewater discharged from the FSE. Due to the differences in specific gravity, the FOG rises to the top and is retained by a baffle installed in the effluent chamber. The separated FOG and solids are retained while the liquid flows to the wastewater collection system. The detention capacity of the unit decreases as grease and solids accumulate; therefore, regular pumping, cleaning, and maintenance of grease interceptors are essential to ensure proper operation. Figure 4-2 illustrates the common components of a grease interceptor.

**Figure 4-2  
Typical Grease Interceptor**



For the units to be effective, they must be properly sized, constructed, and installed in a location that provides easy access for inspection and cleaning. Grease interceptors are pretreatment facilities that are subject to plan submission and operations requirements of the City's Municipal Code.

### Installation Requirements

Individual grease interceptors are required for FSEs whether or not such facilities are located in a separate building or structure or occupy space in a building or structure that is occupied by other businesses. If the volume or nature of food service provided by the establishment



## **FOG Control Devices**

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involves significant food preparation, operation of a garbage grinder, and automatic dishwasher, a discharge of FOG waste is highly likely and a grease interceptor is required. Exceptions to the requirement for a grease interceptor are pursuant to the permit conditions set forth in Chapter 5.

Each new grease interceptor or grease trap that is installed to replace or upgrade existing grease traps or grease interceptors will be required to meet all criteria stated in the current California Plumbing Code.

For properties with multiple FSEs on a single parcel, each FSE is required to install and maintain a separate grease interceptor. A single grease interceptor can be used to service multiple FSEs only upon approval by the City Utility Services Director. A Grease Trap and Interceptor Installation Checklist is included in Attachment E.

### **Maintenance Requirements**

Each FSE shall be responsible for adequate maintenance, testing, and monitoring of the grease interceptors is performed to ensure that the grease interceptors are functioning properly. At a minimum, maintenance procedures for grease interceptors should include:

- Observe proper grease interceptor cleaning and maintenance procedures to ensure that the device is operating properly. Regular and proper service maximizes interceptor efficiency, prevents spills and minimizes odor.
- Train all employees to regularly check the depth of solids and thickness of retained FOG. Generally, an interceptor loses its effectiveness and does not separate FOG properly when excessive amounts of FOG and/or solids accumulate. The interceptor requires servicing when the combined thickness of solids at the bottom and FOG material on the surface exceeds 25% of total depth in the interceptor. The frequency of servicing is determined by the accumulation rate of FOG and solids.
- Inspect grease interceptor after cleaning to ensure that service was performed correctly.
- All FSEs that are required to install and maintain a grease interceptor shall maintain a maintenance record that documents the cleaning activities for the grease interceptor. Records should include the name of employee who performed the cleaning, date/time of cleaning, amount of grease removed, and the disposal location for the grease and shall be kept for a minimum of two (2) years.

### **Cleaning**

Cleaning must be performed by a licensed waste hauler with an approved license from an authorizing agency. Both vaults of a grease interceptor shall be left completely empty upon completion of the pumping operation. The grease mat, liquids, sludge, and scrapings from the interior walls must be completely removed. Under no circumstances, may the waste hauler reintroduce the removed water or materials into the City's wastewater collection system. All water and materials removed from the grease interceptor must be disposed of at qualified disposal stations.

Since the FSE is the generator of the grease waste, it is liable for the condition of its pretreatment devices, and shall be responsible for payment of all cleaning service fees. It is recommended that the FSE owner or designee be present during the cleaning and maintenance activities to ensure that the grease interceptor is being completely and properly cleaned and maintained. A maintenance log serves as a record of the cleaning frequency and can assist the FSE manager in reducing costs by efficiently scheduling service.

A grease interceptor shall be considered out of compliance if any of the following conditions exist:

- The grease layer on top exceeds 6-inches in depth as measured by an approved dipping method; or
- The solids layer on the bottom exceeds 8-inches in depth as measured by an approved dipping method; or
- The total volume of captured grease and solid material displaces more than 20% of the capacity of the interceptor as calculated using an approved dipping method; or
- The removal efficiency, as determined by sampling and analysis of chemical oxygen demand (COD) or total suspended solids (TSS), is less than eighty percent (80%).

When a City Inspector or his designee finds a grease interceptor out of compliance, the inspector will give the FSE owner/operator of the FSE written notice to clean the interceptor within fourteen (14) calendar days, unless otherwise noted, or be subject to other enforcement actions, including fines.

### Inspections

The City Public Works Director or the Director's designee may inspect and sample wastewater discharges of any FSE to determine whether conditions of the Food Service Establishment Waste Discharge Permit are being met. Reasonable access to the FSE shall be made available when inspection and/or sampling of the wastewater is required. The FSE shall make the following available for the purpose of inspections:

- Access to grease control devices
- Manifests, receipts, and invoices of grease device maintenance
- Documents identifying the waste hauler
- Document identifying the disposal site locations

### 4.3 Alternative FOG Pretreatment Program

Any existing FSE may submit an application to the City's Public Works Director or the Director's designee for approval of an Alternative FOG Pretreatment Program and/or device in lieu of installation of an interceptor. If the Alternative FOG Pretreatment Program and/or device is approved by the City Public Works Director, the FSE will be required to implement this program and/or device and will be granted a variance from the requirement to install, operate and

## FOG Control Devices

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maintain a grease interceptor, for as long as the FSE demonstrates to the satisfaction of the City Public Works Director or the Director's designee that the FSE meets the conditions of the Food Service Establishment Waste Discharge Permit. The terms and conditions for approval of an Alternative FOG Pretreatment Program and/or device and a variance from the requirement to install a grease interceptor shall be specified in the Food Service Establishment Waste Discharge Permit. Additional information pertaining to permits and variances is provided in Chapter 5.

# **Chapter 5**

## **Food Service Establishment**

### **Waste Discharge Permit Requirements**

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The City's objective is to implement and enforce actions against users of the wastewater collection system that violate the prohibition of discharging FOG into the wastewater collection system. The City will initiate enforcement actions for noncompliance, but it is possible for other regulatory agencies, including the EPA or the State, to initiate their own enforcement actions if, in their opinion, the City has not taken adequate enforcement. This section describes the general criteria of a Food Service Establishment Waste Discharge Permit.

#### **5.1 Permit Requirements**

All FSEs are required to obtain and renew a Food Service Establishment Waste Discharge Permit annually to discharge wastewater into the City's sewer system. Requirements of the Permit will vary among FSEs, but, in general, each permit will require the FSE to meet the requirements for installation of FOG removal devices, comply with applicable City policies, and pay all required fees as set by the permit fee schedule. Fees for obtaining the required permit(s) will be assessed and reflect the specific permit requirements. Permit requirements include installation of specific FOG removal equipment, required maintenance frequency, and implementation of FOG handling BMPs. As well, the permits contain specific conditions applicable to the particular operation or location. An example of a Food Service Establishment Waste Discharge Permit is included in Attachment F.

#### **5.2 New FSEs**

Individual grease traps and grease interceptors shall be required for all new FSEs. During the plan review/building permit process, there is a full opportunity to plan for the new installation with the cost component being part of the facility's initial capital investment. Each new grease interceptor or grease trap that is installed to replace or upgrade existing grease traps or grease interceptors will be required to meet all criteria stated in the City's municipal codes and the most current version of the California Plumbing Code (CPC).

#### **5.3 Existing FSEs**

FSEs planning or undergoing major remodeling, as described in Section 5.6, have opportunities similar to new FSEs to design and install grease traps and appropriate grease interceptors, and therefore, will be required to comply with the same conditions as new FSEs. Existing FSEs that discharge to sewer lines known to be a source of SSOs or sewer lines where frequent cleaning is required may be required to install a complete grease interceptor system. Site specific requirements vary according to the location of the sewer lines identified as "high frequency maintenance sites". Since there is the potential for new high frequency maintenance sites to develop, a site specific preventative approach in dealing with the FSE must be developed based

# **Food Service Establishment Waste Discharge Permit Requirements**

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on the quantity of FOG generated from any FSE, as indicated by the nature and magnitude of the operation with the apparent immediate benefit of preventing blockages and sewer spills.

A Variance or Waiver may be granted if the owner of the FSE or designee meets the conditions noted in Section 5.6 and with the approval by the City's Public Works Director or the Director's designee.

## **5.4 FSE Site Modifications**

In addition to new construction and the remodel and/or expansion of an existing structure, changes in the operation of the FSE may also prompt the requirement for the installation of pretreatment devices. The following is a list of changes that could initiate an increase in FOG discharges and require owners of FSEs to install pretreatment devices:

- Menu expansion
- Seating capacity expansion
- Menu changes
- Changes in facility management and the use of BMPs

The owner or operator of the FSE shall notify the City's Public Works Director or Director's designee when any of those events are planned in order to determine the overall impacts which may trigger modifications to the existing permit.

## **5.5 Additional Considerations**

It is important for an FSE to weigh costs and benefits and consider operational characteristics when evaluating grease interceptor design and capacity needs. While the initial capital investment may be less with a smaller-capacity grease interceptor, an establishment risks paying more in pumping and maintenance fees and possible fines should the interceptor prove to be inefficient in meeting FOG requirements.

## **5.6 Conditions for a Waiver or Variance and Mitigation Fee**

A waiver or variance may be granted when either of the following conditions is met:

- Conditional waivers to install grease interceptors may be granted to FSEs that are able to demonstrate that their FOG discharge is insignificant and has no impact to the wastewater collection system.
- A conditional variance to allow alternative pretreatment technology in lieu of a grease interceptor, but equivalent in performance and effectiveness, may also be granted to FSEs demonstrating that the installation of a grease interceptor is determined by the City Public Works Director or the Director's designee to be not feasible.

# **Food Service Establishment Waste Discharge Permit Requirements**

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A waiver from installing a grease interceptor will not be granted if either:

- An FSE applies for a discretionary building permit; or
- A major remodeling of an FSE is done and involves any one or more combination of the following:
  - Plumbing modifications in the food processing area that require removal of any portion of the floor slab;
  - A 30% or greater increase in net public seating area;
  - A 30% or greater increase in kitchen size area; or
  - Any change in size or type of food preparation equipment.

Where conditions for a variance cannot be met, a waiver from grease interceptor requirements may be granted with the charge of a Grease Disposal Mitigation Fee. The fee will be used to recover the additional cost of maintenance and cleaning associated with the elevated FOG discharge associated with the FSE's inability to install the required grease interceptor or equivalent FOG control devices. The Grease Disposal Mitigation Fee should be established such that FSEs do not get an economic advantage for opting to pay the mitigation fee rather than installing the grease interceptor. Therefore, at a minimum, the fee should be equivalent to the cost of installing a new grease interceptor and associated costs for cleaning and maintenance. This section will not be interpreted to allow a new FSE, or existing FSEs undergoing remodeling or change in operations, to operate without an approved grease interceptor unless the City Public Works Director has determined that it is not possible to install a grease interceptor.

Notwithstanding any waiver of a grease interceptor, FSEs determined by the City Public Works Director or the Director's designee to have contributed to a sewer blockage, SSOs or any sewer system interferences resulting from the discharge of wastewater, may be ordered by the City Utility Services Director or the Director's designee to immediately install and maintain a grease interceptor and any other requirements.

## **5.7 Exemption from FOG Discharge Permit**

A limited food preparation establishment (LFPE) is not considered an FSE and is exempt from obtaining a Food Service Establishment Waste Discharge Permit. Exempted establishments shall be engaged only in reheating, hot holding or assembly of ready to eat food products and, as a result, there is not wastewater discharge containing significant amounts of FOG. A limited food preparation establishment does not include any operation that changes the form, flavor or consistency of food.



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# Chapter 6

## Inspection and Enforcement

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It is the expectation of the City that efforts to keep FOG from entering into the wastewater system can be achieved with public education and through the common interest in preventing health hazards and damage to homes and businesses.

The City has a range of enforcement responses that can be applied for compliance with the FOG Control Program and respective ordinances. Enforcement actions are implemented when the owner of an FSE has refused, failed or violated compliance requirements and include an escalating response strategy to violations. Monetary fines are federally required enforcement responses and are usually one of the last enforcement actions the City will use when encountering noncompliance. However, fines may be used in conjunction with established ordinances or permitting processes and procedures.

### 6.1 Inspections

To determine whether an FSE is in compliance with the conditions of the Food Service Establishment Waste Discharge Permit, FOG Control Program, and City ordinances, the City Public Works Director or authorized designee will inspect each FSE. The inspections will be scheduled at least two (2) working days in advanced. However, if deemed necessary, the City Public Works Director or authorized designee may perform an unscheduled inspection of any FSE. Reasonable access to all parts of the FSE shall be made available when inspection and/or sampling of the wastewater is required. The FSE shall make available, for the purpose of inspection, the following:

- Access to grease control devices
- Manifests, receipts, and invoices of grease device maintenance
- Documents identifying the waste hauler carrier
- Documents identifying the disposal site locations
- Records of employee training of best management practices

Table 6-1 includes information regarding the frequency of inspections for permit compliance and the required frequency of inspections.

## Inspection and Enforcement

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**Table 6-1  
Permit and Inspection Frequencies**

|                                       | No FOG Discharge | FOG Discharge & FOG Control Device | FOG Discharge & No FOG Control Device |
|---------------------------------------|------------------|------------------------------------|---------------------------------------|
| Permit Renewal                        | 12 Months        | 12 Months                          | 12 Months                             |
| BMP Inspections                       | N/A              | 6 Months                           | 3 Months                              |
| Grease Trap or Interceptor Inspection | N/A              | 6 Months                           | 3 Months                              |

Based on the results of the inspection, the status of the FSE's existing Waiver, Variance or Food Service Establishment Food Service Establishment Waste Discharge Permit may be renewed, extended or revoked. If violations are encountered, the City Public Works Director or Director's designee may schedule an additional inspection of the FSE to determine whether the corrective actions noted as violations have been implemented and if additional improvements are required.

### 6.2 Enforcement

All users of the City's wastewater collection system and facilities are required to comply with the FOG Control Program and City Code and are subject to all penalties noted in the FOG Control Program and/or City Code if it is determined that a violation of the program and/or City Code has occurred. A user shall mean any person who contributes, causes the contribution of, or permits the contribution of wastewater into the City's wastewater collection system.

Violations may include, but are not limited to:

- Failure to install an approved grease control device;
- Making of false statement, representation, record, report, plan or other document that is filed with the City;
- Tampering with or knowingly renders inoperable any grease control device;
- Fails to clean, properly operate, maintain or remove FOG from a grease control device within the required time for such cleaning, maintenance or grease removal;
- Fails to keep up-to-date and accurate records of all training, cleaning, maintenance, and FOG removal and upon request to any City Public Works Director, or his or her designee, any representative of a local sanitation agency that has jurisdiction over the wastewater collection system that services the FSE, or any City authorized inspector or designee;
- Refuses a City Public Works Director, or his or her designee, a representative of a local wastewater collection agency that has jurisdiction over the wastewater collection system that services the FSE, or any authorized inspector, reasonable access to the FSE for the purpose of inspecting, monitoring, or reviewing the grease control devices, and/or inspect the grease control devices;

- Disposes of, or knowingly allows or directs FOG to be disposed of, in an unlawful manner;
- Fails to pay the Grease Disposal Mitigation Fee;
- Fails to comply with the provisions of the FOG Control Program; and
- Fails to comply with the provisions of the FOG related codes or any permit issued by the City.

Procedures the City may take to enforce the FOG Control Program and related City codes include:

- Issuing verbal or written notices of violation;
- Identifying requirements to enter into a compliance schedule agreement (CSA);
- Suspending or revoking of the Food Service Establishment Waste Discharge Permit;
- Establishing (assessing) costs and charges to reimburse the City to clean and/or repair the wastewater collection system or other affected sewer facilities;
- Suspending or terminating the sewer and water service to the FSE; and/or
- Pursuing civil penalties and/or criminal penalties.

### **6.3 Notice of Violation (NOV)**

The Notice of Violation is the first level of enforcement and is issued to the owner(s) of an FSE by the City Public Works Director or Director's designee. The criteria for issuing a NOV are:

- Failure to install grease removal equipment as required;
- Failure to repair grease removal equipment;
- Failure to properly maintain grease removal equipment;
- Failure to provide grease removal equipment maintenance records; and
- Failure to provide access for inspection.

NOVs may include verbal notice or may be sent within two weeks following the inspection by Registered Mail, and they require that corrective action be taken by a specified date. If the NOV is served by mail, the NOV shall be sent to the last address known to the City Utility Services Director. Failure to comply with a NOV will result in either a second NOV or required attendance at a conference with the City Utility Services Director. The City's fee for an NOV is \$200 and is subject to change as a ministerial matter.

The NOV will identify the specific requirements that were violated, the fact alleged to constitute the violations, and it may include any corrective action(s) proposed to be required. Within ten (10) days of the receipt date of this notice, a written explanation of or response to the violation

## **Inspection and Enforcement**

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and a plan for the satisfactory correction and prevention thereof must be submitted by the owner or operator of the FSE.

The corrective actions contained in a NOV should include:

- Implementing specific BMPs to control FOG wastes, including submittal of a CSA;
- Increasing the inspection and/or cleaning frequency of a grease trap or grease interceptor;
- Provide adequate maintenance and/or access to the grease trap or grease interceptor; and
- Other items deemed appropriate by the City Public Works Director or the Director's designee.

An informal administrative conference with the City Public Works Director may be requested and an appeal process is available subsequent to the informal conference. The criteria for requesting an informal conference with the City Utility Services Director are:

- Failure to comply with the requirements of an NOV;
- Receipt of a second NOV for the same compliance issue; or
- Receipt of more than two NOVs within a twelve month period.

The informal conference provides a setting where the City can present and clarify the compliance issues. Additionally, the City and the FSE owner, or designee, can clarify the issue(s) and negotiate a satisfactory compliance schedule. The FSE owner may be charged of fee of \$500 for the conference.

### **6.4 Compliance Schedule Agreement (CSA)**

Upon determination by the City Public Works Director that an FSE or owner of a property is in noncompliance with its Wastewater Discharge Permit or any other provision, or needs to construct and/or acquire and install a FOG control device, the Public Works Director may require the permittee, owner or operator to enter into a CSA.

A CSA must include:

- A description of the FSE operation;
- A description of the location and size of any grease interceptor(s) and grease trap(s) present;
- A description of the FOG BMPs used by the FSE;
- A description of the procedures to prevent discharges of waste FOG;
- A description of waste FOG handling, storage, and disposal procedures;

- A description of how the grease interceptor or grease trap will be maintained (cleaned) including frequency of cleaning;
- A description of how the FSE will comply with quarterly reporting requirements;
- A CSA expiration date; and
- A certification statement that is signed by the owner or manager of the FSE.

The City will provide the FSE with written notice of its acceptance of the FSE's site specific FOG control program. The Public Works Director may require modifications to the FSE's FOG control program, if the plan submitted by the FSE is determined to be inadequate. Failure to implement any element of an accepted plan is a violation and subject to enforcement.

### **6.5 Suspension or Revocation of Permit**

A Food Service Establishment Waste Discharge Permit may be suspended and/or revoked for the following reasons:

- Failure to comply with the conditions of the Food Service Establishment Waste Discharge Permit;
- Failure to install required grease pretreatment devices as required by the Food Service Establishment Waste Discharge Permit;
- Failure to comply with the reporting and/or pretreatment requirements or pretreatment device maintenance as required by the Food Service Establishment Waste Discharge Permit;
- Failure to comply with a Notice of Violation or a Compliance Schedule Agreement issued to require compliance with a Food Service Establishment Waste Discharge Permit or other provision of the City's municipal codes;
- Knowingly providing a false Food Service Establishment Waste Discharge Permit application or making false representations, or submitting false documents, reports or logs to the City Public Works Director or the Director's designee;
- Refusal to allow inspections during normal business hours or after hours if emergency conditions exist (overflow or suspected overflow);
- Interference with a City Public Works Director or the Director's designee during the FSE inspection or in sampling an FSE's discharge or in inspecting and sampling an overflow event; and/or
- Causing or contributing to sewer blockages or sewer overflows within the public sewer, or failing to address the conditions leading to more than one (1) overflow event from a private system within a twelve (12) month period.

## **Inspection and Enforcement**

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### **6.6 Cost Recovery (Clean Up Costs)**

Enforcement activities often commence with investigations of blockages and overflows of the wastewater system. Such investigations may include closed circuit television inspection of sewer lateral lines and privately owned service lines. These inspections are used to determine contributing factors causing the blockage or overflow, such as defective infrastructure, accumulated roots and/or debris, and to seek visual evidence of FOG waste accumulation between the site of the stoppage or overflow and upstream FSEs.

FSEs found to have contributed to a sewer blockage, SSO, obstruction, interference, damage, or any other impairment to the City's sewer facilities, to the operation of those facilities or cause any sewer system interferences resulting from the discharge of wastewater or waste containing FOG, may be ordered to install and maintain a grease interceptor, and may be subject to a more restrictive plan to abate future problems. Furthermore, sewer lateral failures and SSOs caused by FSEs alone or collectively, are the responsibility of the private property owner or FSE(s) and shall be liable for all costs required to clean or repair the facilities together with expenses incurred by the City to resume normal operations.

If the City must act immediately to clear a sewer blockage or contain and clean up an SSO caused by blockage of a private system serving an FSE, or acts at the request of the property owner or operator of the FSE, the City's costs for such abatement shall be entirely borne by the property owner or operator of the FSE, and may constitute a debt to the City.

### **6.7 Suspension or Termination of Sewer and Water Service**

In the event that a violation of the City's municipal code or Food Service Establishment Waste Discharge Permit conditions causes or contributes to a sewer system overflow event or an overflow event emanating from a sewer lateral or private system and such event is creating or contributing to an immediate or impending threat to the public's health or safety of the environment, then the City's Public Works Director or the Director's designee may discontinue the water service to the FSE or to the property, and such service discontinuance shall remain in effect until the private sewer lateral impairment is repaired or until the matter is heard and water service is ordered continued by the City's Public Works Director or the Director's designee.

### **6.8 Civil Penalties**

All users of the City's wastewater collection system and facilities are subject the General Penalty included in the City's Code as well as additional provisions to further enforcement actions of federal, state and local regulatory agencies. In the event the City is the subject of fines or penalties or legal actions as a result of actions of the FSE or other parties in violation of the FOG Control Program, the Food Service Establishment Waste Discharge Permit or the City's municipal code, the City shall be entitled to recover from the responsible party all costs and expenses to which it has been subjected.

### **6.9 Criminal Penalties**

Except as otherwise provided by law or City ordinance, any person who violates any provision of the FOG Control Program, the Food Service Establishment Waste Discharge Permit, or the City's Code may be convicted of a misdemeanor, which upon conviction may be punishable by a fine of not more than \$1000 or punishment by imprisonment in the City or county jail for not more than six (6) months, or by both the fine and imprisonment.

### **6.10 Administrative Hearing Procedures**

Any FSE, permit applicant, or permittee adversely affected by a decision made by the City Public Works Director or the Director's designee may appeal the decision and file a written request for hearing before the City Manager or the Manager's designee if such filing is done within 10 working days of the decision and accompanied by an appeal fee.





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# Chapter 7

## Drawing Submittals

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The City requires that project-specific plans be submitted on all projects that:

- Propose a new structure or substantially significant alterations to an existing structure;
- Require a grading permit;
- Significantly alters the site drainage; or
- Alters the traffic approach or volume to the site.

The plans are intended to address all development requirements of the City's Code and includes all adopted conditions of approval for the project for which development plans were submitted. Developments Plans may include:

- Street, Storm Drain, and Sewer Improvement Plans;
- Architectural Site Plans;
- Mechanical and Plumbing Plans;
- All on-site Drainage and Grading Improvements;
- Parking Lot Lighting, Paving, Curbing and Striping Plans; and
- Landscape and Irrigation Plans.

Upon the request by the City Public Works Director or the Director's designee, a proposed or existing FSE may be required to submit facility site plans, mechanical and plumbing plans, and other details to show the sewer locations and connections for its facility or premises. The submittal shall be in a form and content acceptable to the City for review of an existing or proposed grease interceptor, grease trap, monitoring facilities, metering facilities, and operating procedures.

The review of the plans and procedures shall in no way relieve an owner or operator of an FSE of the responsibility of modifying the facilities or procedures in the future, as necessary to meet the requirements of the City's FOG Control Program, City Code or any requirements of other regulatory agencies. The City may require drawings to be prepared by a California Registered Civil, Mechanical, or Electrical Engineer.



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## Chapter 8

# Public Outreach

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Educating the public on the negative impacts of putting FOG into the wastewater collection system is an effective way to engage the public in reducing FOG related SSOs. A variety of means exist to educate the public regarding the impacts of disposing FOG down drains. The following list identifies several forms of media to educate and inform the public about FOG and methods to reduce its introduction into the wastewater collection system:

- Bi-annual inserts in water and/or sewer bills;
- Direct mailers;
- Door hangers;
- FOG postcards distributed to all residents within 1,000 foot radius of each residential FOG related SSO;
- Brochures distributed at City locations, kiosks, and public events;
- Posters and flyers displayed prominently in public areas, such as on buses, libraries, recreational centers, and so on;
- Announcements placed on the City's web site;
- Advertisements placed in the City's news magazine and recreation guide, *Pomona Pastimes*;
- Public service announcements (PSAs) on the City's cable television channel; and
- Specific events such as the Public Works Week to educate the public on reducing FOG such as at an earth day fair, open house events, and other appropriate venues.

All messages that are communicated to the public should be prepared in English, and, where appropriate, in Spanish and any other dominant language spoken by the target audience. Translation services may be required and anticipated during any educational campaign. Staff from the Public Works Department should work closely with the City's Public Information Officer to develop appropriate messages and with which media the messages should be disseminated. Education activities should occur regularly throughout the year, but the City may consider enhancing education campaigns near holidays, such as Thanksgiving, when many residents increase their cooking activities.

For example, some cities and agencies have set up liquid cooking oil collection stations to collect up to 30 gallons of used cooking oil generated by residential cooking, and in particular from turkey fryers. By advertising the location and times of the collection sites, citizens will be cognizant of the City's efforts to reduce FOG and inclined to dispose of their cooking waste properly. Ultimately the used cooking oil is recycled or disposed of by a certified waste hauler.

Examples of educational campaigns can be found in Attachment G, which contains a sample flyer advertising that the drain is not a dump for FOG, and a door hangar, presented in both



## Public Outreach

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English and Spanish, that can be left with residents. Additionally, the following text is an example of a message for a postcard to be mailed to residents soon after a FOG related SSO has occurred:

Dear Resident,

You are receiving this message because your neighborhood has recently experienced a sanitary sewer spill related to a build-up of fats, oils, and grease in the sewer pipes. Cooking grease coats pipelines much like fatty foods clog human arteries. The grease clings to the insides of the pipe, eventually causing blockage and potential sewer spills. By following a few simple steps, you can help prevent costly sewer spills in the future.

- Pour your cooking oil (this includes salad oil, frying oil and bacon fat) into an old milk carton, frozen juice container, or other non-recyclable package, and disposed of it in the garbage.
- Wipe dishes and pots that are coated with greasy leftovers (butter, peanut butter, etc.) with a disposable towel prior to washing or placing in the dishwasher.
- Place food scraps and fat trimmings from meat in a trashcan.

If you have questions, please contact us at 909-620-2241.

Sincerely,  
Utility Maintenance Department Staff

To be most effective, it is recommended that this postcard be mailed within ten (10) calendar days of the SSO to encourage residents from continuing to dispose of FOG down the drain.

A sample of the fog prevention brochure is included in Spanish and English. The handout was purchased through the Water Environment Federation. This and other handouts can help the public understand the need to prevent grease disposal in household drains.

Educating the public to reduce FOG is an important task that should have a specific amount of time dedicated to its success. Investment up front in educating the public, will reduce the money spent on responding to and mitigating FOG related SSOs because they will be effectively reduced.

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**Attachment A**  
**Grease Trap/Interceptor Maintenance Log**

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# **Attachment B**

## **Best Management Practices**

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# CITY OF POMONA

## KITCHEN BEST MANAGEMENT PRACTICES (BMPs)

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Food service establishments shall teach their employees the following kitchen best management practices and conduct training at least twice per year. A written log of employee training must be maintained on site for a minimum of two (2) years. The City's policies require that training records be made available to the City Inspector for review at the time the facility is being inspected.

- ✓ **Trash Disposal:** Dispose of food waste and fatty scraps into the trash or garbage bin. Do not discard into sink. Use plastic trash bags to prevent leaks and odors. Double-bag waste that has the potential to leak in trash bins. Ensure trash bins are covered when not in use and notify trash hauler if bin leaks.
- ✓ **Pre-Wash:** Before washing pots, pans, dishware, floor mats, and/or work areas, dry wipe or scrape food scraps and dispose of them in the trash.
- ✓ **Use of Drain Screens:** Install removable screens on all drainage pipes in food preparation areas. Keep screens in sinks and floor drains clean and in good repair. Dispose of collected solids in trash: not down the drain.
- ✓ **Yellow Grease Disposal:** Dispose of grease and oil from cooking equipment (pots, pans, and fryers) by pouring waste oil and yellow grease into covered containers (drums or barrels) for storage and recycling. Provide secondary containment to capture any liquid grease or oil that may spill from the primary container. Use a licensed waste hauler or recycling facility to dispose of liquid grease and oil before the container is full. Keep a written log with manifests and invoices of waste oil pick ups to show the City's authorized inspector who inspects the site.
- ✓ **Mat Cleaning:** Clean and wash floor mats in a utility mop sink. Empty mop water into a sink or drain connected to a grease interceptor, if present. DO NOT empty mop or wash water into storm drains.
- ✓ **Hood Cleaning:** Clean hoods and filters as frequently as necessary to maintain good operating condition and only clean them in sinks that flow to grease control devices. Use a licensed waste hauler to dispose of wastewater collected from cleaning hoods and filters.
- ✓ **Spill Prevention:** Place absorbent materials, such as paper towels or pads, under fryer baskets and in other areas where grease may drip or spill during cooking and frying or during the transfer of grease to storage or disposal containers.
- ✓ **Spill Kits:** Maintain a spill kit, accessible for use by employees, which includes absorbent pads, kitty litter or an equivalent absorbing material, and paper towels. Require the use of the spill kit to clean up spilled fats, oils, and grease.
- ✓ **Super Hot Water:** DO NOT pump water hotter than 140°F through a grease control device.
- ✓ **Employee Training:** Post signs to show kitchen best management practices in food preparation, dishwashing, and maintenance areas.

In addition, Food Service Establishment shall ensure that any and all grease control devices that are utilized, such as grease traps or interceptors, are cleaned as frequently as needed to keep them free of food residue and hardened fats, oils, and grease.



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**Attachment C**  
**BMP Training Log**

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**Attachment D**  
**BMP Compliance Inspection Checklist**

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# BMP COMPLIANCE INSPECTION CHECKLIST



- CITY USE -

Inspector: \_\_\_\_\_ Signature: \_\_\_\_\_

Establishment: \_\_\_\_\_ Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Inspection Date: \_\_\_\_\_ Time Started: \_\_\_\_\_ Time Completed: \_\_\_\_\_

## INSPECTION CHECKLIST

| #  | Item Description   | Field Data<br>(where appropriate) | Compliance<br>Status |
|----|--|-----------------------------------|----------------------|
| 1  | The establishment has implemented a training program to ensure that the BMPs are followed.   |                                   |                      |
| 2  | "NO GREASE" signs are posted in appropriate locations.   |                                   |                      |
| 3  | The establishment recycles waste cooking oil and can provide records of this.  |                                   |                      |
| 4  | Water temperature at all sinks, especially the pre-rinse sinks before the mechanical dishwasher or those in the three-sink system, are less than 140° F. (Measure and record temperature.) |                                   |                      |
| 5  | The establishment "dry wipes" pots, pans, and dishware prior to rinsing and washing.   |                                   |                      |
| 6  | Food waste is disposed of by recycling or solid waste removal and is not discharged to the grease traps or interceptors.   |                                   |                      |
| 7  | Grease trap(s) is cleaned regularly. (Note and record the frequency of cleaning.)  |                                   |                      |
| 8  | Grease trap cleaning frequency is documented on a maintenance log. (Obtain a copy of the log.)   |                                   |                      |
| 9  | Grease interceptor does not contain greater than 1/3 the depth in grease accumulation. (Estimate and record amount of grease in interceptor.)  |                                   |                      |
| 10 | Grease interceptor does not contain greater than 1/4 the depth in sediment accumulation. (Estimate and record amount of sediment in interceptor.)  |                                   |                      |

|    |   |  |  |
|----|---|--|--|
| 11 | Grease interceptor is cleaned and maintained regularly. (Note and record frequency of cleaning.)  |  |  |
| 12 | Grease interceptor cleaning and maintenance frequency is documented on a maintenance log. (Obtain a copy of the log.)   |  |  |
| 13 | Outdoor grease and oil storage containers are covered and do not show signs of overflowing.   |  |  |
| 14 | Grease and oil storage containers are protected from discharge to storm drains.   |  |  |
| 15 | Absorbent pads or other materials, which are not free-flowing materials such as cat litter, are used to clean up any spills or leakages that could reach the storm drain. |  |  |
| 16 | Storm drain catch basins show no signs of grease or oil.  |  |  |
| 17 | The roof shows no signs of grease and oil from the exhaust system.  |  |  |
| 18 | Exhaust system filters are cleaned regularly and the cleaning is documented. (Note and record frequency of cleaning.)   |  |  |

**NOTES:** \_\_\_\_\_

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**Attachment E**  
**Grease Trap and Interceptor Installation Checklist**

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# GREASE TRAP & INTERCEPTOR INSTALLATION CHECKLIST



- CITY USE -

Inspector: \_\_\_\_\_ Signature: \_\_\_\_\_

Establishment: \_\_\_\_\_ Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Inspection Date: \_\_\_\_\_ Time Started: \_\_\_\_\_ Time Completed: \_\_\_\_\_

## INSTALLATION CHECKLIST

| # | Item Description  | Field Data<br>(where appropriate) | Compliance<br>Status |
|---|---|-----------------------------------|----------------------|
| 1 | Each grease trap serves no more than four single-compartment sinks of the same depth. Grease trap is sized based upon the number of fixtures discharging to it.   |                                   |                      |
| 2 | Grease traps have a water seal of not less than two inches in depth or the diameter of its outlet, whichever is greater.  |                                   |                      |
| 3 | No food waste disposal unit or dishwasher is connected to or discharges into any grease trap.   |                                   |                      |
| 4 | Waste from toilets and urinals does not discharge to the grease interceptor.  |                                   |                      |
| 5 | Waste in excess of 140° F is not discharged to any grease trap. (Dishwasher with a minimum temperature of 160° F is not discharged to any grease trap.)   |                                   |                      |
| 6 | The vertical distance between the fixture outlets and grease trap weirs is as short as practical.   |                                   |                      |
| 7 | Grease interceptor is as close as practical to the fixtures served.   |                                   |                      |
| 8 | Each fixture connected to a grease trap is provided with an approved type of flow control or restricting device installed in a readily accessible and visible location. Devices shall be designed so that the flow through the device or devices at no time exceeds the rated capacity of the grease trap or interceptor. |                                   |                      |
| 9 | Each fixture discharging into a grease trap or interceptor is individually trapped and vented in an approved manner.  |                                   |                      |



|    |  |  |  |
|----|--|--|--|
| 10 | Each grease trap and interceptor is properly vented to allow air circulation throughout the entire drain system.   |  |  |
| 11 | No water jacketed grease trap or interceptor is installed.   |  |  |
| 12 | Grease interceptor is easily accessible for inspection and cleaning and access does not require the use of ladders or the removal of bulky equipment.  |  |  |
| 13 | There is a minimum of one access point into each compartment of the interceptor and no access points are greater than 10 feet apart. Each access opening is leak-resistant and cannot slide, rotate, or flip.  |  |  |
| 14 | Location of grease interceptor is shown on approved building plans. Drawings of interceptor are complete and show all dimensions, capacities, reinforcing, and structural design calculations.   |  |  |
| 15 | Grease interceptor is not installed in any part of a building where food is handled. Location shall meet the approval of the City Public Works Director or Director's designee.  |  |  |
| 16 | Grease interceptor serves a single business establishment.   |  |  |
| 17 | Grease interceptor has a minimum of two compartments and 3-inch diameter fittings designed for grease retention. The compartments shall be separated by partitions or baffles that extend at least 6 inches above the water level. The inlet compartment shall be 2/3 of the total interceptor capacity and shall have a minimum liquid volume as determined during the sizing of the interceptor. The length of the inlet compartment shall be longer than the inside width of the interceptor. |  |  |
| 18 | The inlet and outlet fittings shall be a baffle tee (or similar flow device) that extends at least 4 inches above the water level to within 12 inches of the bottom of the interceptor. The outlet tee out of a sample box shall extend at least 6 inches below the water surface. Flow between the separate compartments is through a baffle tee or bend that extends down to within 12 inches of the bottom of the interceptor.  |  |  |
| 19 | The liquid depth shall be greater than or equal to 2' 6" and less than 6' 0".  |  |  |

|    |   |  |  |
|----|---|--|--|
| 20 | There shall be a minimum of 9 inches of open vent space above the water level to the top of the interceptor. The airspace has a minimum capacity equal to 12-1/2% of the grease interceptor's liquid volume.  |  |  |
| 21 | The grease interceptor has at least one square foot of surface area for every 45 gallons of liquid capacity.  |  |  |
| 22 | All waste enters the interceptor through the inlet pipe.  |  |  |
| 23 | Grease interceptor cover is gastight and has a minimum opening of 20 inches in diameter.  |  |  |
| 24 | Grease interceptors located in areas of pedestrian or vehicle travel are adequately designed to support the imposed loads. Review of structural calculations may be required to verify adequacy.  |  |  |
| 25 | Redwood baffles are not installed in grease interceptor.  |  |  |
| 26 | A sample box is provided on the outlet side of the grease interceptor. This is recommended and may be required by the UPC so that the City Public Works Director, or Director's designee, can periodically sample the effluent quality.   |  |  |
| 27 | Grease interceptor is permanently and legibly marked with the manufacturer's name of trademark, model number, UPC certification mark and registration (if product is listed by the International Association of Plumbing and Mechanical Officials), and any other markings required by law. |  |  |

**NOTES:** \_\_\_\_\_

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**Attachment F**  
**Food Service Establishment**  
**Waste Discharge Permit Application**

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# CITY OF POMONA FOOD SERVICE ESTABLISHMENT WASTE DISCHARGE PERMIT APPLICATION



## GENERAL INFORMATION

Business Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Contact: \_\_\_\_\_ Title or Position: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

After Hours Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

## TYPE OF ESTABLISHMENT

Fast Food: Yes No      Restaurant: Yes No      Coffee House: Yes No

Food Processing: Yes No      Other (specify): \_\_\_\_\_

## PERMIT INFORMATION

(This application, once completed and approved by the City, will be your permit.)

The terms of this permit cover your existing facility for a period of one (1) year. If the business changes in any of the ways listed below during the permit period, a renewal will be required.

First Permit: Yes No      New Construction: Yes No

Change of Ownership: Yes No      **If Yes**, describe: \_\_\_\_\_

Expansion: Yes No      **If Yes**, provide details of expansion: \_\_\_\_\_

Building Remodel: Yes No      **If Yes**, provide details of remodel: \_\_\_\_\_

Other Changes: \_\_\_\_\_

## FACILITY OPERATIONS

Hours:      Weekdays: \_\_\_\_\_      Drive Thru: \_\_\_\_\_      Delivery: \_\_\_\_\_

Weekends: \_\_\_\_\_      Drive Thru: \_\_\_\_\_      Delivery: \_\_\_\_\_

Seating Capacity:      Indoor: \_\_\_\_\_      Outdoor: \_\_\_\_\_

Type of Dishes/Utensils:      Washable: Yes No      Disposable: Yes No

Total Number of Kitchen Employees: \_\_\_\_\_

**CITY OF POMONA  
FOOD SERVICE ESTABLISHMENT  
WASTE DISCHARGE PERMIT APPLICATION**

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**MEAL INFORMATION**

Type of Cuisine: (Attach a copy of your menu)

Type of Products Cooked, Heated or Fried: Meat Poultry Seafood Fruits/Vegetables

Method of Cooking/Heating: \_\_\_\_\_

Method of Frying: \_\_\_\_\_

**GREASE HANDLING AND DISPOSAL**

Garbage Dumpster:

1. Yes No
2. Shared Private

Grease Control Devices:

1. Grease Interceptor Yes No
2. Grease Trap Yes No
3. Maintenance/Cleaning Schedule: \_\_\_\_\_

Waste Oil Recycling Container/s:

1. Total Number of Container/s: \_\_\_\_\_
2. Number of Containers Indoors: \_\_\_\_\_ Outdoors: \_\_\_\_\_
3. Provisions Made to Catch Spills around/under Container(s) Yes No
4. Waste Oil Collection Records and Invoices Kept Onsite Yes No
5. Schedule/Frequency of Waste Oil Disposal: \_\_\_\_\_

**KITCHEN BEST MANAGEMENT PRACTICES**

Terms of this permit require compliance with kitchen best management practices (BMPs). See Page 4 of this application for a list of kitchen BMPs. The City will provide program materials to assist in employee training and program compliance. Program materials include a copy of the FOG Control Program, BMP signs, and required report forms (employee training log and waste oil collection log). Employee training materials will be available in English, Spanish and Mandarin.

**GENERAL PERMIT**

By submission of this application, the applicant agrees to wastewater discharge requirements under a Waste Discharge Permit. The FOG Control Program prohibits certain activities and requires that others take place.

The wastewater discharger agrees to the following Permit Conditions:

1. To implement the FOG Control Program and kitchen BMPs as set forth in the City's FOG Ordinance and program information.
2. To allow the City's authorized program representative to inspect food preparation areas and grease handling equipment and facilities.

**CITY OF POMONA  
FOOD SERVICE ESTABLISHMENT  
WASTE DISCHARGE PERMIT APPLICATION**

3. To keep two (2) logs to demonstrate compliance with the FOG Control Program to the City inspector: (a) employee training log, and (b) waste oil collection log.
4. To pay reasonable costs for the City to respond to a sanitary sewer overflow caused or contributed to by obstructions in your private sewer line.
5. Other Requirements (to be completed by City): \_\_\_\_\_

**TO BE COMPLETED AND SIGNED BY APPLICANT**

The applicant: (a) attests that the submitted information is true, accurate, and complete; (b) agrees to comply with the City's FOG Control Program; and (c) understands that the City may notify the applicant of program changes from time to time.

\_\_\_\_\_  
Signature-Facility Authorized Representative

\_\_\_\_\_  
Printed Name-Authorized Representative

\_\_\_\_\_  
Representative Title

\_\_\_\_\_  
Date

**Send your completed and signed Waste Discharge Application** to the City of Pomona with a check or money order for \$250 to cover the application/permit fee. Mail to: City of Pomona, Attn: Public Works Director, 505 South Garey Ave., Pomona, CA 91766. Once approved by the City, your application will become your permit and it will be in effect for one (1) year, subject to renewal. If you have any questions, please call 909-620-2051.

**TO BE COMPLETED AND SIGNED BY THE CITY OF POMONA**

\$250 Fee Received

The applicant has received a copy of the City's FOG Control Ordinance and program information/training kit:  Yes  No

The City's authorized representative has verified the applicant's compliance with the City's FOG Control Ordinance:  Yes  No

Permit Approval Date: \_\_\_\_\_ Permit Renewal Date: \_\_\_\_\_

Based on program compliance, the permittee qualifies for the following rate incentives:

Reduced sewer usage rate for compliance with kitchen BMPs

Further reduced sewer usage rate for compliance with kitchen BMPs **and** use of a properly sized and maintained grease interceptor

\_\_\_\_\_  
Signature-Authorized City Representative

\_\_\_\_\_  
Printed Name-Authorized Representative

\_\_\_\_\_  
Representative Title

\_\_\_\_\_  
Date

# CITY OF POMONA FOOD SERVICE ESTABLISHMENT WASTE DISCHARGE PERMIT APPLICATION



## KITCHEN BEST MANAGEMENT PRACTICES (BMPs)

Food service establishments shall teach their employees the following kitchen best management practices and conduct training at least twice per year. A written log of employee training must be maintained on site for a minimum of two (2) years. The City's policies require that training records be made available to the City Inspector for review at the time the facility is being inspected.

- ✓ **Trash Disposal:** Dispose of food waste and fatty scraps into the trash or garbage bin. Do not discard into sink. Use plastic trash bags to prevent leaks and odors. Double-bag waste that has the potential to leak in trash bins. Ensure trash bins are covered when not in use and notify trash hauler if bin leaks.
- ✓ **Pre-Wash:** Before washing pots, pans, dishware, floor mats, and/or work areas, dry wipe or scrape food scraps and dispose of them in the trash.
- ✓ **Use of Drain Screens:** Install removable screens on all drainage pipes in food preparation areas. Keep screens in sinks and floor drains clean and in good repair. Dispose of collected solids in trash: not down the drain.
- ✓ **Yellow Grease Disposal:** Dispose of grease and oil from cooking equipment (pots, pans, and fryers) by pouring waste oil and yellow grease into covered containers (drums or barrels) for storage and recycling. Provide secondary containment to capture any liquid grease or oil that may spill from the primary container. Use a licensed waste hauler or recycling facility to dispose of liquid grease and oil before the container is full. Keep a written log with manifests and invoices of waste oil pick ups to show the City's authorized inspector who inspects the site.
- ✓ **Mat Cleaning:** Clean and wash floor mats in a utility mop sink. Empty mop water into a sink or drain connected to a grease interceptor, if present. DO NOT empty mop or wash water into storm drains.
- ✓ **Hood Cleaning:** Clean hoods and filters as frequently as necessary to maintain good operating condition and only clean them in sinks that flow to grease control devices. Use a licensed waste hauler to dispose of wastewater collected from cleaning hoods and filters.
- ✓ **Spill Prevention:** Place absorbent materials, such as paper towels or pads, under fryer baskets and in other areas where grease may drip or spill during cooking and frying or during the transfer of grease to storage or disposal containers.
- ✓ **Spill Kits:** Maintain a spill kit, accessible for use by employees, which includes absorbent pads, kitty litter or an equivalent absorbing material, and paper towels. Require the use of the spill kit to clean up spilled fats, oils, and grease.
- ✓ **Super Hot Water:** DO NOT pump water hotter than 140°F through a grease control device.
- ✓ **Employee Training:** Post signs to show kitchen best management practices in food preparation, dishwashing, and maintenance areas.

In addition, Food Service Establishment shall ensure that any and all grease control devices that are utilized, such as grease traps or interceptors, are cleaned as frequently as needed to keep them free of food residue and hardened fats, oils, and grease.





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**Attachment G**  
**Public Outreach**

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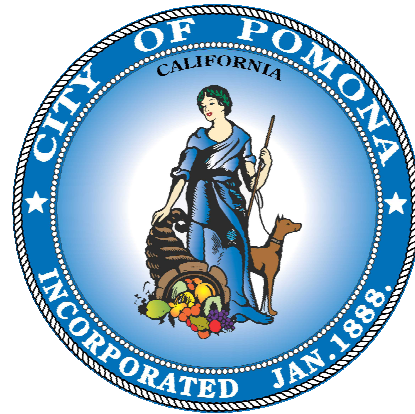
## What Restaurant and Building Owners Need to Know About Grease Traps or Interceptors

Restaurants and large buildings, such as apartment complexes, and other commercial establishments may have grease traps or interceptors that keep grease out of the sewer system. For a grease trap or interceptor to work correctly it must be properly.

1. Designed (sized and manufactured to handle the amount that is expected);
2. Installed (level, vented, etc.); and
3. Maintained (cleaned and serviced on a frequent basis).

Solids should never be put into grease traps or interceptors. Routine, often daily, maintenance of grease traps and interceptors is needed to ensure that they properly reduce or prevent blockages.

Be cautious of chemicals and additives (including soaps and detergents) that claim to dissolve grease. Some of these additives simply pass grease down pipes where it can clog sewer lines in another area.



City of Pomona

Public Works Department  
505 South Garey Avenue  
Pomona, CA 91766

Phone: (909) 620-2241  
[www.ci.Pomona.ca.us](http://www.ci.Pomona.ca.us)

City of Pomona



FAT-FREE  
SEWERS

How to Prevent Fats,  
Oils, and Grease from  
Damaging Your Home,  
Business, and the  
Environment

# Fats, Oils, and Grease aren't just bad for your arteries and your waistline; they are bad for sewers too!

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. An increasingly common cause of overflows is sewer pipes blocked by grease. Grease gets into the sewer from household drains as well as from poorly maintained grease traps in restaurants and other businesses.



## Where does the grease come from?

Most of know grease as the byproduct of cooking. Grease can be found in such things as:

- Meat Fats
- Lard
- Cooking Oil
- Shortening
- Butter and Margarine
- Food Scraps
- Baking Goods
- Sauces
- Dairy Products

To often, grease is washed into the plumbing system, usually through the kitchen sink. Grease sticks to the insides of sewer pipes (both on your property and in the streets). Over time, the grease can build up and block the entire pipe.

Home garbage disposals do not keep grease out of the plumbing system. These units only shred solid material into smaller pieces and do not prevent grease from going down the drain.

Commercial additives, including detergents, that claim to solve grease may pass grease down the line and cause problems in other areas.



## The results can be:

- Raw sewage overflowing in your home or your neighbor's home;
- An expensive and unpleasant cleanup that often must be paid for by you, the homeowners;
- Raw sewage overflowing into parks, yards, and streets;
- Potential contact with disease-causing organisms; and
- An increase in operation and maintenance costs for local sewer departments, which causes higher sewer bills for customers.



**DON'T**



## What we can do to help.

The easiest way to solve the grease problem and help prevent overflows of raw sewage is to keep this material out of the sewer system in the first place.

## There are several ways to do this.

1. Never pour grease down sink drains or into toilets.
2. Scrape grease and food scraps from trays, plates, pots, pans, utensils, and grills and cooking surfaces into a can or the trash for disposal (or recycling where available).
3. Do not put grease down garbage disposals. Put baskets/strainers in sink drains to catch food scraps and other solids, and empty the drain baskets/strainers into the trash for disposal.
4. Speak with your friends and neighbors about the problem of grease in the sewer system and how to keep it out. Call your local sewer system authority if you have any questions.



**The drain is not a dump**



**Put fats, oils and grease where they belong.**

Mix them in your trash with absorbent waste like paper, coffee grounds, or kitty litter.



Public Works Department  
148 North Huntington Street, Pomona, California 91768  
(909) 620-2241

A PUBLIC SERVICE ANNOUNCEMENT FOR POMONA RESIDENTS  
From Your Public Works Department



Help us Protect our  
Environment!

Grease, oil, and fat should go  
from

the Pan...



...to the



Can.

Never pour grease, cooking oil,  
or fat down the sink.

They can clog drains and cause  
sewer pipes to back up.

Cool down your cooking oil,  
grease, and fat - pour them into  
a container with a secure lid.

*Trash the can – not your pipes!*

Wipe out pots and pans with a paper  
towel before doing dishes – you will use  
less soap and decrease clogs.

**Dispose of food scraps in the trash –  
not down garbage disposals, drains, or  
toilets.**

UN ANUNCIO PUBLICO DE SERVICIO PARA LOS RESIDENTES DE POMONA  
Departamento de Public Works



**Ayudenos a proteger nuestro medio  
ambiente!**

La grasa y aceites van de

el Sarten...



...a la



Basura.

Nunca vacie por el fregadero la  
grasa y aceites para cocinar.

**Pueden obstruir el drenaje y  
causar el cano de desague que se  
estanche.**

**Enfrie su aceite y grasa para  
cocinar y vacielos a una lata con  
tapa segura.**

***Tire la lata y no sus tuberias a la basura!***

Limpie las cacerolas y los sartenes con una  
toalla de papel antes de lavar los platos – asi  
usando menos jabon y disminuir la  
posibilidad de que se tape la tuberia.

**Tire pedasos de comida en la basura –no  
en el fregadero, drenaje, o tasa de bano.**



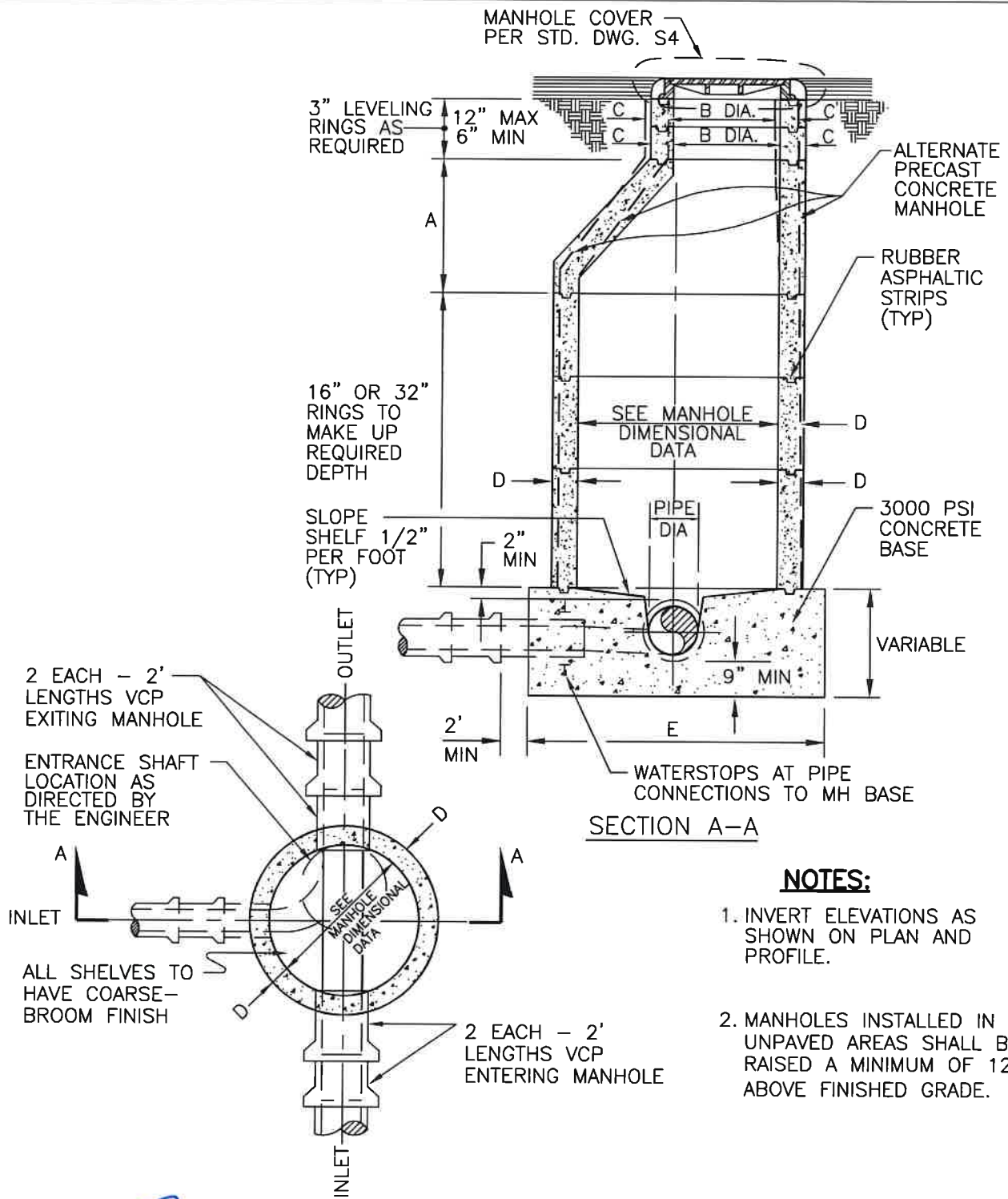
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## **Appendix G**

# **Sewer Standard Drawings**

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**SECTION A-A**

**NOTES:**

1. INVERT ELEVATIONS AS SHOWN ON PLAN AND PROFILE.
2. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED A MINIMUM OF 12" ABOVE FINISHED GRADE.


|   |           |   |   |              |
|---|-----------|---|---|--------------|
| <p>RENE GUERRERO, CITY ENGINEER<br/>RCE NO. 66263</p> |           | <p>9/29/17<br/>DATE</p>                                   | <p>CITY OF POMONA<br/>PUBLIC WORKS DEPARTMENT</p> |              |
|   |           | <p>STANDARD 48" MANHOLE<br/>MAIN 15" DIAMETER OR LESS</p> |   |              |
|   |           | DRAWN BY: DC  | STANDARD  | S1<br>1 OF 2 |
|   |           | CHECKED BY: NB, IL  |   |              |
|   |           | APPROVED BY: DP   |   |              |
| △   | REVISIONS | DATE  | INITIAL   |              |

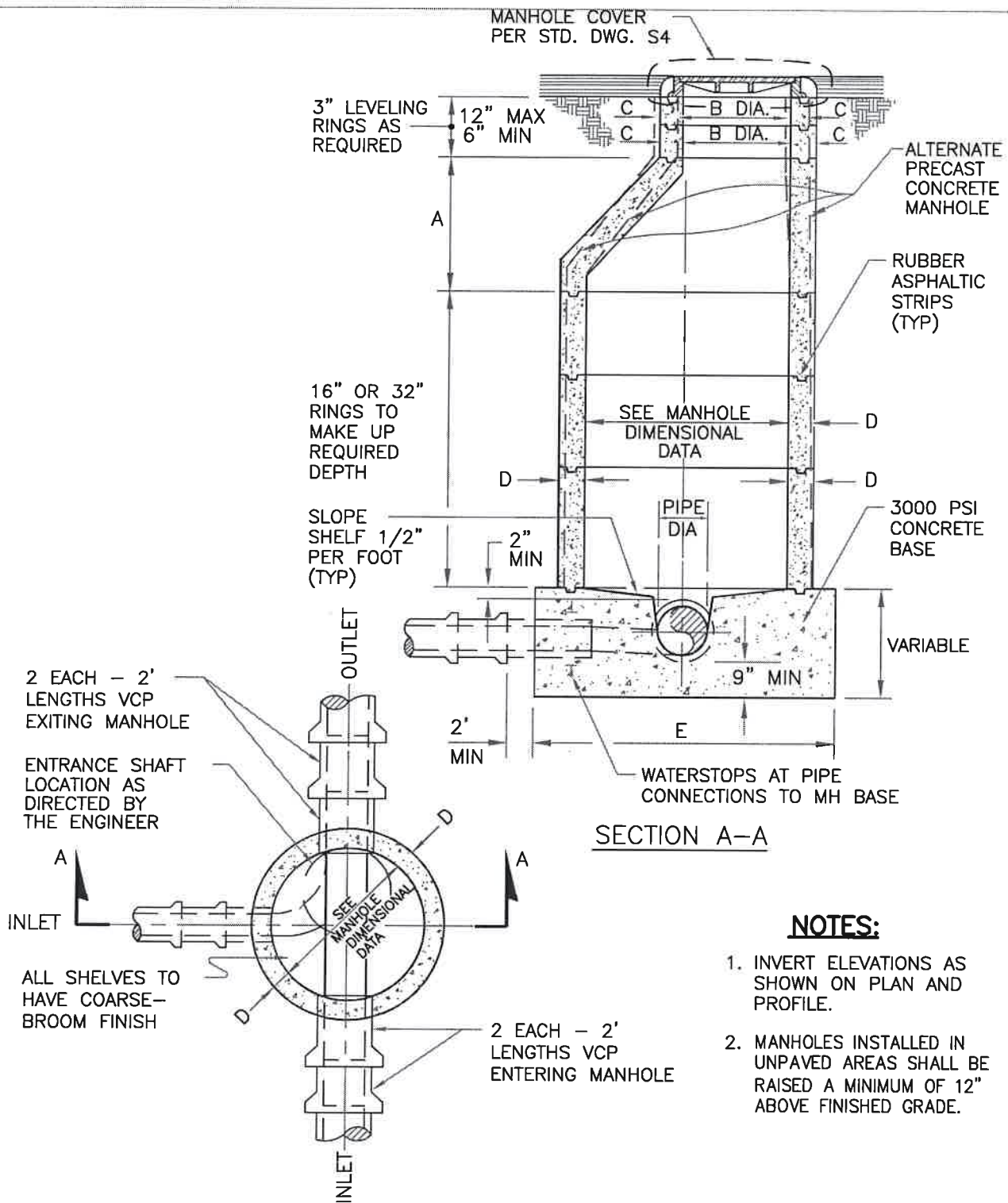
| MANHOLE DIMENSIONAL DATA |            |     |         |    |        |        |               |
|--------------------------|------------|-----|---------|----|--------|--------|---------------|
| MANHOLE DIAMETER         | TYPE       | A   | B<br>** | C  | D      | E      | PIPE DIAMETER |
| 48"                      | REINFORCED | 36" | 30"     | 5" | 4 1/8" | 6'-0"+ | UP TO 21"     |
| 48"                      | REINFORCED | 36" | 30"     | 6" | 6"     | 6'-0"+ | * 24"         |

- \* IF CONNECTIONS AND TEES ARE REQUIRED, USE NEXT HIGHER DIAMETER MANHOLE.
- \*\* WHERE 30" OPENING IS NOT POSSIBLE, USE CONCENTRIC COVER, ALHAMBRA FOUNDRY TYPE A-1325 OR EQUIVALENT.

**NOTES**

1. PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 AND BE DESIGNED FOR AASHTO H20 LOADING.
2. MATERIALS, EMBEDMENT, PLACEMENT, AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL SHALL CONFORM TO THE CITY'S STANDARD DETAILS FOR PIPE BEDDING AND TRENCH BACKFILL.

|  |  |                 |  |   |  |
|--|--|-----------------|--|---|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |  | 9/28/17<br>DATE |  | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT         |  |
|  |  |                 |  | MANHOLE 4 FT BY 3 FT<br>MAIN 15" DIAMETER OR LESS |  |
|  |  |                 |  | DRAWN BY: DC<br>CHECKED BY: NB, IL                |  |
| REVISIONS  |  | DATE INITIAL    |  | APPROVED BY: DP                                   |  |
| △  |  |                 |  | STANDARD  |  |
|  |  |                 |  | S1<br>2 OF 2                                      |  |



SECTION A-A

**NOTES:**

1. INVERT ELEVATIONS AS SHOWN ON PLAN AND PROFILE.
2. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED A MINIMUM OF 12" ABOVE FINISHED GRADE.

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263  
 2/28/17  
 DATE

| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
|           |      |         |
|           |      |         |

CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

MANHOLE 5 FT BY 3 FT  
 18" DIA. AND LARGER

|                    |                 |                     |
|--------------------|-----------------|---------------------|
| DRAWN BY: DC       | <b>STANDARD</b> | <b>S2</b><br>1 OF 2 |
| CHECKED BY: NB, IL |                 |                     |
| APPROVED BY: DP    |                 |                     |


| MANHOLE DIMENSIONAL DATA |            |     |         |    |    |        |               |
|--------------------------|------------|-----|---------|----|----|--------|---------------|
| MANHOLE DIAMETER         | TYPE       | A   | B<br>** | C  | D  | E      | PIPE DIAMETER |
| 60"                      | REINFORCED | 36" | 30"     | 6" | 6" | 7'-0"+ | 27" TO 39"    |
| 60"                      | REINFORCED | 36" | 30"     | 6" | 6" | 7'-0"+ | * 42"         |

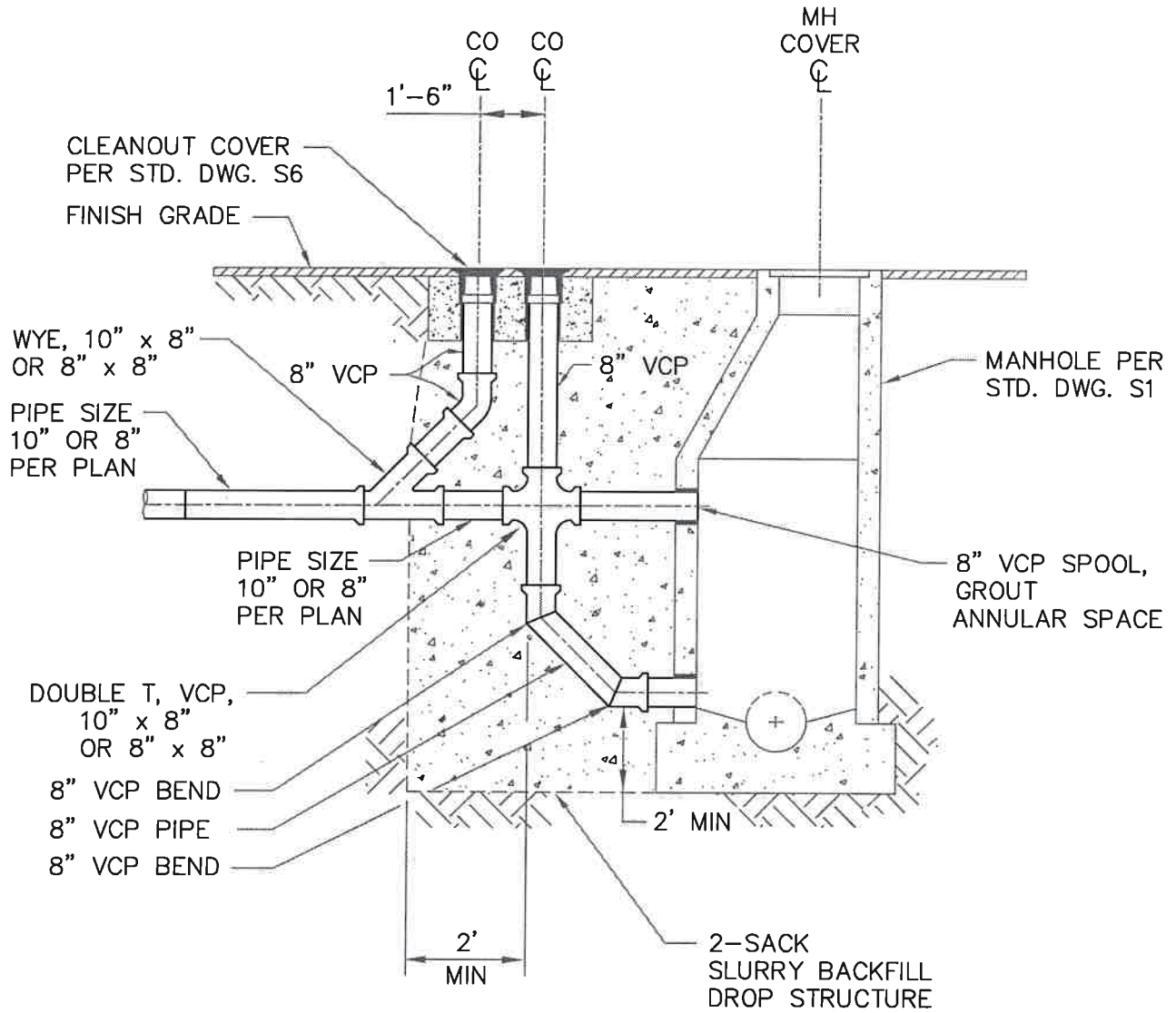
\* IF CONNECTIONS AND TEES ARE REQUIRED, USE NEXT HIGHER DIAMETER MANHOLE.

\*\* WHERE 30" OPENING IS NOT POSSIBLE, USE CONCENTRIC COVER, ALHAMBRA FOUNDRY TYPE A-1325 OR EQUIVALENT.

NOTES


1. PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 AND BE DESIGNED FOR AASHTO H20 LOADING.
2. MATERIALS, EMBEDMENT, PLACEMENT, AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL SHALL CONFORM TO THE CITY'S STANDARD DETAILS FOR PIPE BEDDING AND TRENCH BACKFILL.

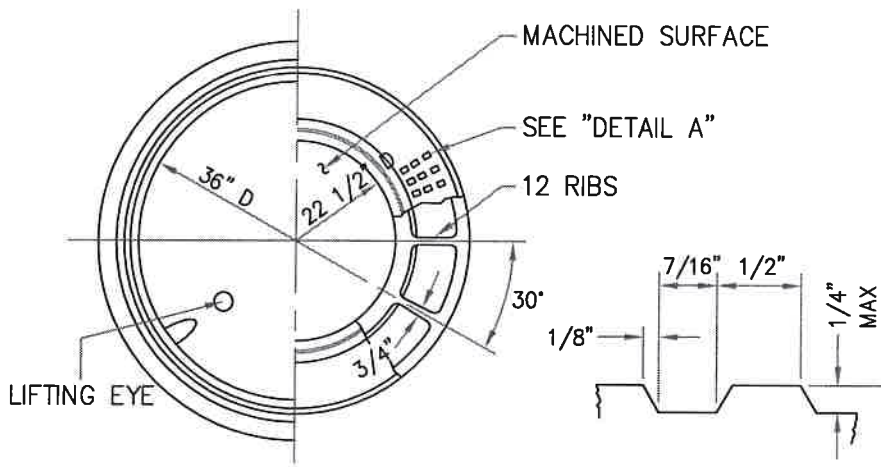
|  |           |                 |         |  |  |
|--|-----------|-----------------|---------|--|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |           | 8/28/17<br>DATE |         | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT    |  |
|  |           |                 |         | MANHOLE 5 FT BY 3 FT<br>STANDARD 48" MANHOLE |  |
|  |           |                 |         | DRAWN BY: DC<br>CHECKED BY: NB, IL           |  |
|  |           |                 |         | APPROVED BY: DP                              |  |
| △  | REVISIONS | DATE            | INITIAL | STANDARD                                     |  |
|  |           |                 |         | S2<br>2 OF 2                                 |  |



**NOTES:**

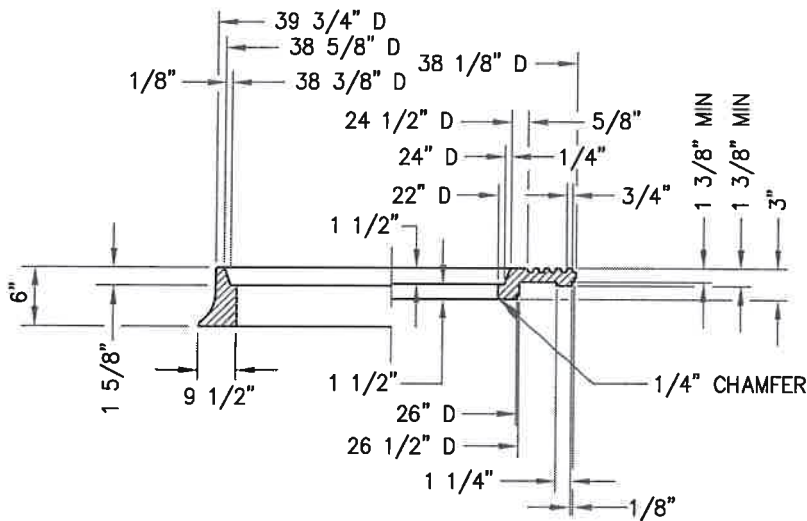
1. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED MINIMUM 12" ABOVE FINISH GRADE.
2. CLEANOUTS MAY BE INSTALLED AT FINISH GRADE.

|  |                 |   |             |
|--|-----------------|---|-------------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 | 3/28/17<br>DATE | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT             |             |
|  |                 | DROP MANHOLE  |             |
|  |                 | DRAWN BY: DC<br>CHECKED BY: NB, IL<br>APPROVED BY: DP | STANDARD S3 |
| REVISIONS  | DATE            | INITIAL   |             |



HALF PLAN FRAME AND COVER


"DETAIL A"



HALF SECTION FRAME AND COVER

**NOTES:**

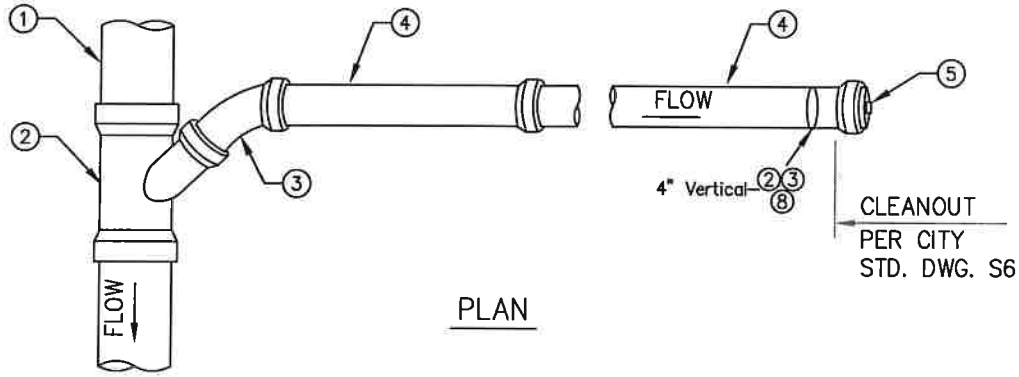
1. FRAME AND COVER SHALL BE CAST IRON. CAST IRON SHALL CONFORM TO ASTM 48, CLASS 35B.
2. WEIGHTS: FRAME 314 - 363 LBS  
OUTER COVER 285 - 330 LBS  
INNER COVER 147 - 171 LBS
3. MACHINE ALL MATCHING SURFACES AND SEATS OF FRAME AND COVER
4. IMPORTED FRAME AND COVERS SHALL HAVE THE COUNTRY OF ORIGIN MARKED IN COMPLIANCE WITH FEDERAL REGULATIONS.

|  |      |                 |                 |
|--|------|-----------------|-----------------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |      | 8/28/17<br>DATE |                 |
| REVISIONS  | DATE | INITIAL         | APPROVED BY: DP |

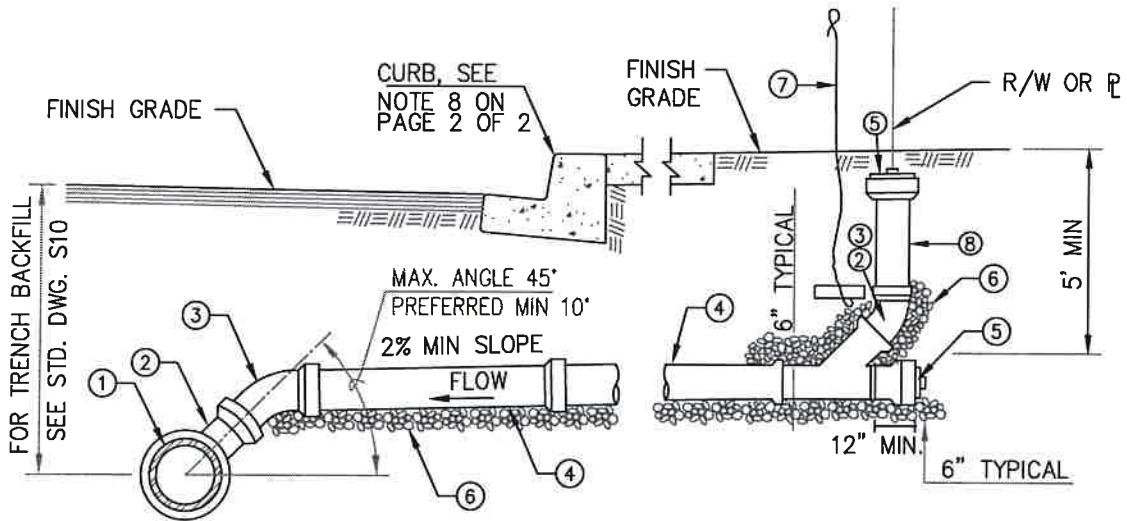
CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

MANHOLE COVER

STANDARD S4




PLAN



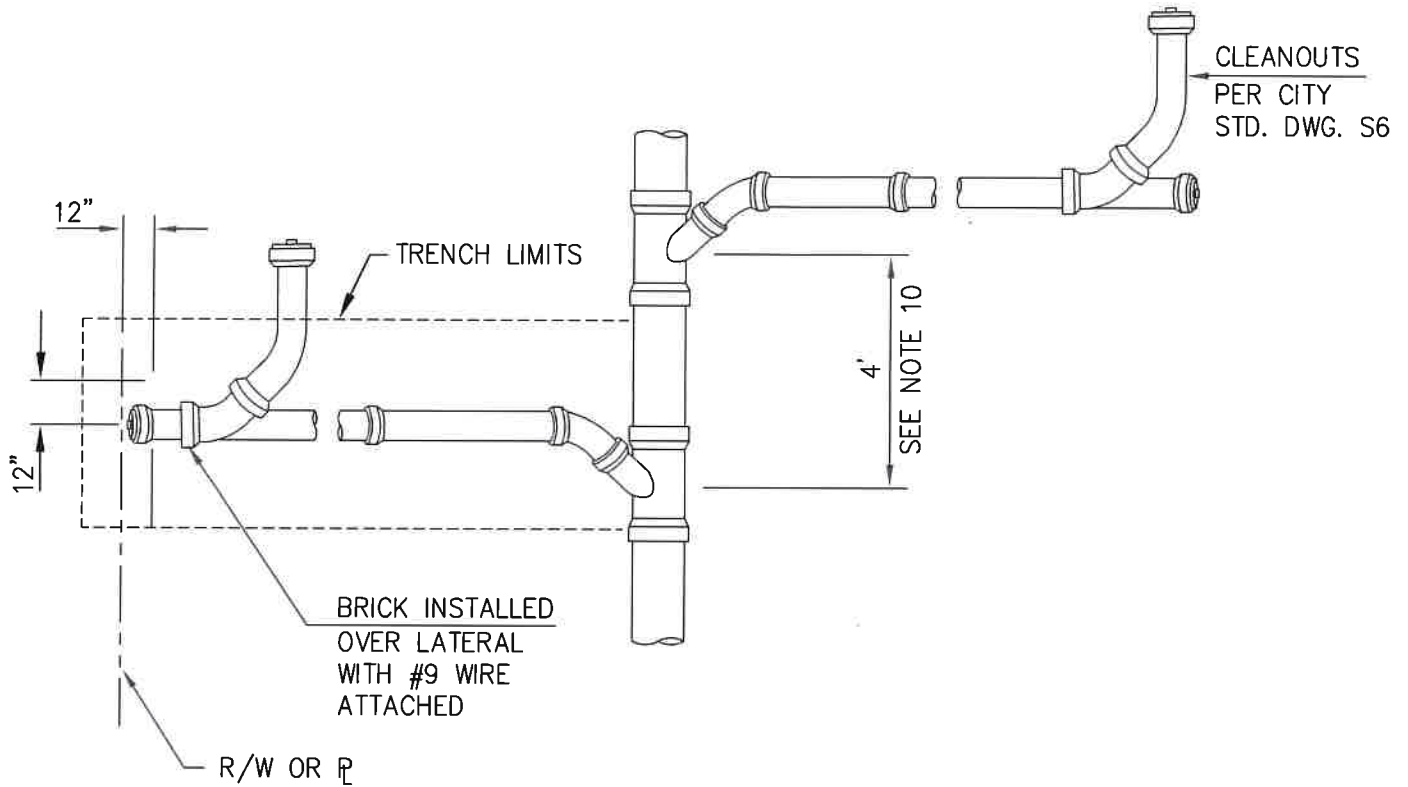
ELEVATION

FOR SEWER LATERAL NOTES, SEE PAGE 2 OF 2

| ITEM NO. | SIZE AND DESCRIPTION                            | ITEM NO. | SIZE AND DESCRIPTION  |
|----------|---|----------|---|
| ①        | SEWER MAIN                                      | ⑤        | PLUG OR CAP   |
| ②        | 45° WYE   | ⑥        | 3/4" MAXIMUM CRUSHED ROCK                                     |
| ③        | 45° ELBOW                                       | ⑦        | 9 WIRE ATTACHED TO A BRICK;<br>WIRE TO BE LAID ON TOP OF PIPE |
| ④        | PIPE LATERAL, SEE NOTES 3 & 5<br>ON PAGE 2 OF 2 | ⑧        | CLEANOUT PER STD. DWG. S6                                     |

|  |           |                 |         |
|--|-----------|-----------------|---------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |           | 8/28/17<br>DATE |         |
| △  | REVISIONS | DATE            | INITIAL |


|   |          |
|---|----------|
| CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT             |          |
| HOUSE LATERAL CONNECTION                              |          |
| DRAWN BY: DC<br>CHECKED BY: NP, IL<br>APPROVED BY: DP | STANDARD |
| S5<br>1 OF 2  |          |



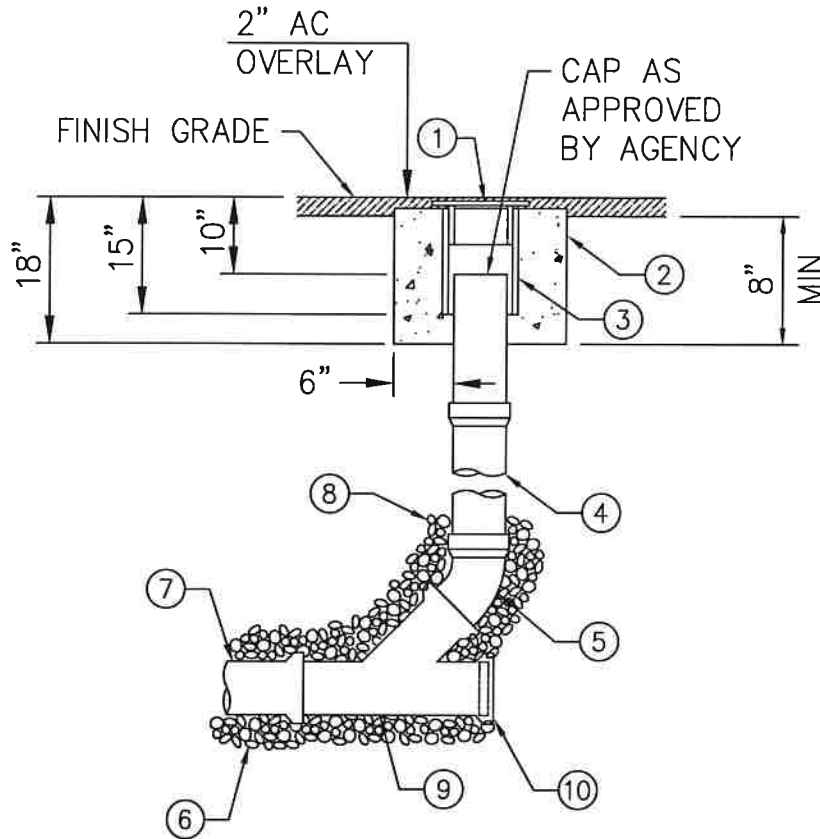
SANITARY SEWER LATERAL DETAIL  
SEE NOTE 10 BELOW

**NOTES:**

1. REFER TO PROJECT SPECIFICATIONS WHERE APPLICABLE.
2. IN NO CASE SHALL LATERAL CONNECT DIRECTLY TO TOP OF SEWER MAIN.
3. LATERAL SHALL BE INSTALLED TO PROPERTY LINE UNLESS SPECIFIED ON PLANS.
4. MINIMUM 5' COVER ABOVE LATERAL AT PROPERTY LINE.
5. LATERAL TO HAVE A MINIMUM SLOPE OF 2%; APPROVAL REQUIRED FOR SLOPE LESS THAN 2%. INSTALL WITH "SEWER" IDENTIFICATION TAPE.
6. VERTICAL PIPE SHALL BE BRACED WHILE BACKFILLING TRENCH.
7. IDENTIFY SANITARY SEWER LATERAL LOCATION ON CURB.
8. MATERIALS SHALL BE SELECTED FROM THE CITY'S APPROVED MATERIALS LIST.
9. FOR SANITARY SEWER LATERAL INSTALLATIONS, SEE PAGE 1 OF 2.
10. FOR SEWERS SPECIFIED AS VCP PIPE, A MINIMUM 3' SECTION OF PIPE IS REQUIRED BETWEEN FITTINGS.
11. SEWER CLEANOUT, SEE STD. DWG. S6

|   |                 |   |                     |
|---|-----------------|---|---------------------|
| <br>RENE GUEBRERO, CITY ENGINEER<br>RCE NO. 66263 | 9/18/17<br>DATE | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT             |                     |
|   |                 | HOUSE LATERAL CONNECTION                              |                     |
|   |                 | DRAWN BY: DC<br>CHECKED BY: NP, IL<br>APPROVED BY: DP | <b>STANDARD</b>     |
| REVISIONS   | DATE            | INITIAL   | <b>S5</b><br>2 OF 2 |





**NOTES:**

1. REFER TO CITY'S STANDARD SPECIFICATIONS WHERE APPLICABLE.
2. CLEANOUTS TO BE INSTALLED AT THE END OF MAINS WHERE INDICATED ON THE PLANS.
3. CLEANOUT PIPE TO BE SAME SIZE AND MATERIAL AS SEWER PIPE UP TO 8".
4. BACKFILL TO TOP OF 45° BEND WITH 3/4" CRUSHED ROCK.
5. MATERIALS SHALL BE SELECTED FROM THE CITY'S APPROVED MATERIALS LIST.
6. ITEM NO. 10 TO BE OMITTED IF CONNECTED TO A NEW OR EXISTING LATERAL.

| ITEM NO. | SIZE AND DESCRIPTION  | ITEM NO. | SIZE AND DESCRIPTION          |
|----------|---|----------|-------------------------------|
| ①        | 12" CAST IRON CLEANOUT BOX COVER, LID TO BE LABELED "SEWER" | ⑦        | SEWER LATERAL                 |
| ②        | CONCRETE RING   | ⑧        | 3/4" CRUSHED ROCK, SEE NOTE 4 |
| ③        | 12" PVC, C-900 X 15" LONG (CLEANOUT BOX)                    | ⑨        | STANDARD WYE BRANCH           |
| ④        | VCP PIPE AT REQUIRED LENGTH AND DIAMETER                    | ⑩        | INSTALL PLUG OR CAP           |
| ⑤        | 45° ELBOW   |          |                               |
| ⑥        | 3/4" CRUSHED ROCK PIPE BEDDING                              |          |                               |

*Rene Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263  
 8/28/17  
 DATE

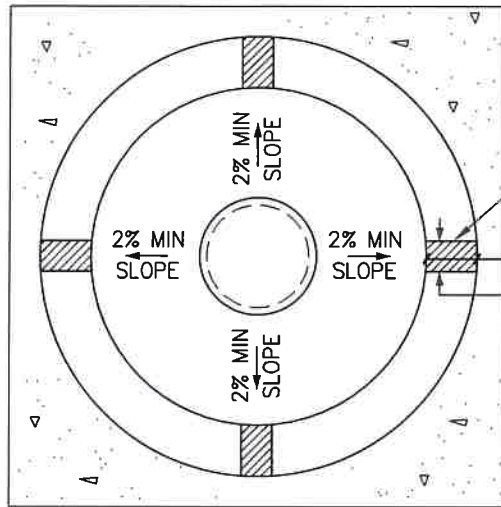
CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

SEWER LATERAL CLEANOUT

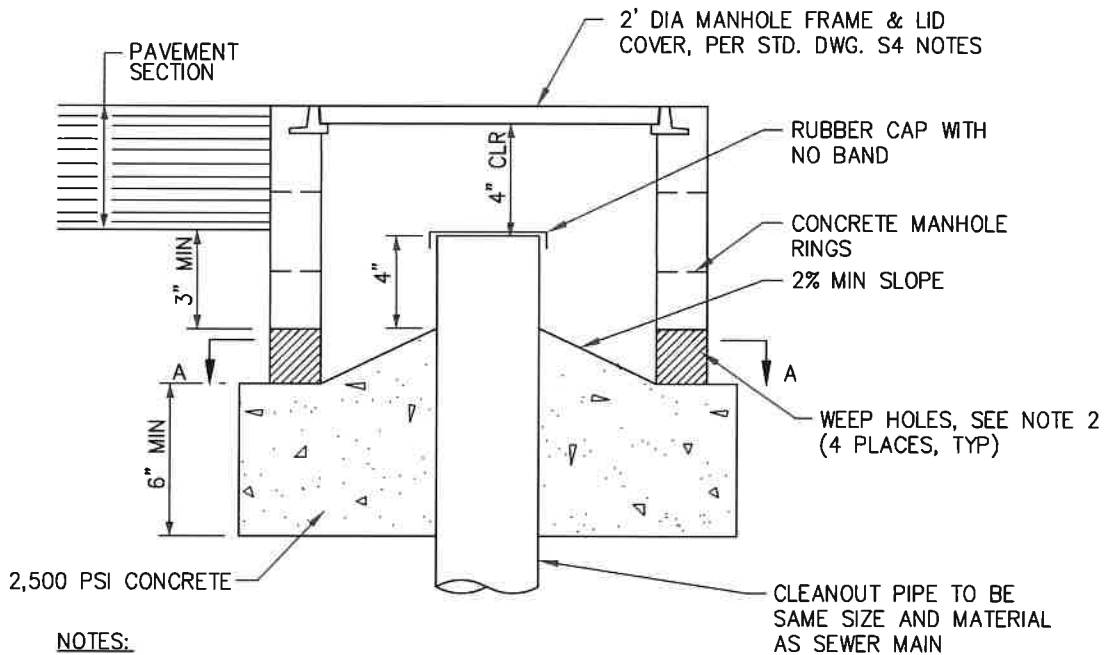
DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S6

REVISIONS DATE INITIAL



SECTION A-A



**NOTES:**

1. CLEANOUTS INSTALLED IN LANDSCAPED EASEMENTS SHALL BE RAISED MINIMUM 2" ABOVE FINISH GRADE.
2. WEEP HOLES SHALL NOT BE COVERED WITH AC OR CONCRETE LAYER OF PAVEMENT SECTION.

*Rene Guerrero*

RENE GUERRERO, CITY ENGINEER  
RCE NO. 66263

9/18/17  
DATE

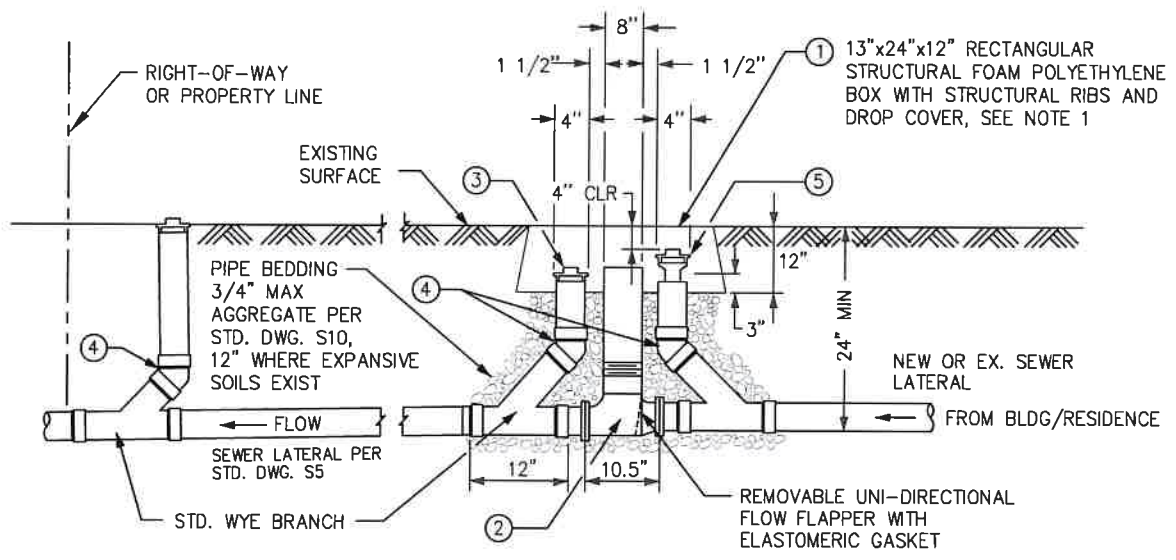
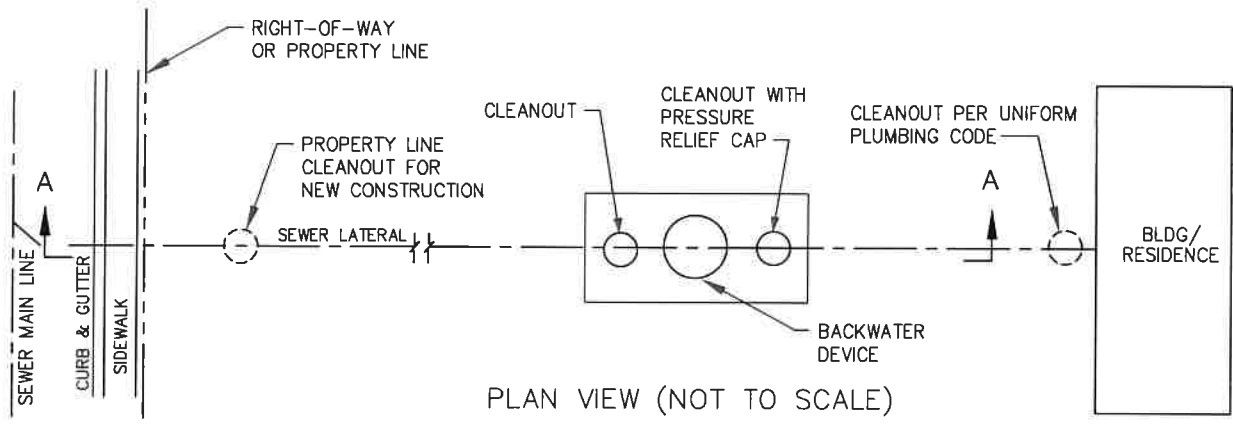
CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

SEWER MAIN CLEANOUT ACCESS

DRAWN BY: AA  
CHECKED BY: IL, RG, NH  
APPROVED BY: DP

STANDARD S7

| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
|           |      |         |
|           |      |         |



**NOTES:**

1. WHEN BACKWATER DEVICE IS INSTALLED IN THE DRIVEWAY, ALLEY OR STREET, A TRAFFIC RATED BOX AND LID IS REQUIRED.
2. ALL PIPING SHALL BE SPECIFIED AS VCP PIPE.

| ITEM NO. | SIZE AND DESCRIPTION   |
|----------|--|
| ①        | INSTALL VALVE BOX SO THAT IT IS FLUSH WITH EXISTING PAVEMENT OR SIDEWALK SURFACE, AND 1" ABOVE GRADE WHEN INSTALLED IN LANDSCAPE AREA. |
| ②        | BACKWATER DEVICE AND ATTACHED PARTS SHALL BE PER UNIFORM PLUMBING CODE (U.P.C) AND APPROVED BY THE BUILDING DIVISION.                  |
| ③        | CLEANOUT PLUG (ABS) THREADED.  |
| ④        | STANDARD 45° BEND.   |
| ⑤        | CLEANOUT WITH AN APPROVED PRESSURE RELIEF CAP. CAP SHALL NOT PROJECT INTO THE SEWER LATERAL CROSS SECTIONAL AREA.                      |

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263

9/18/17  
 DATE

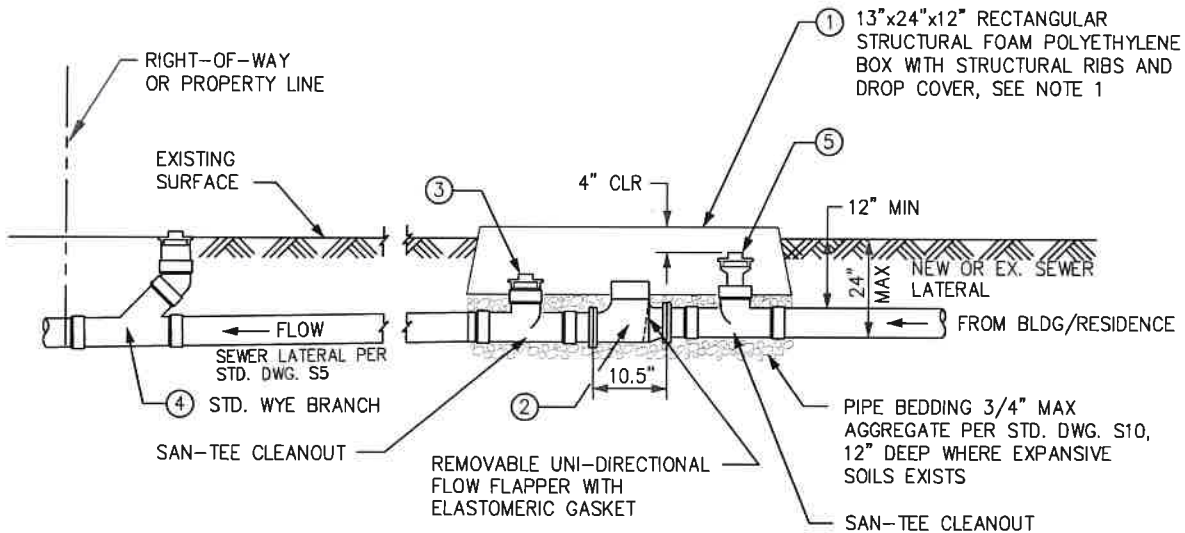
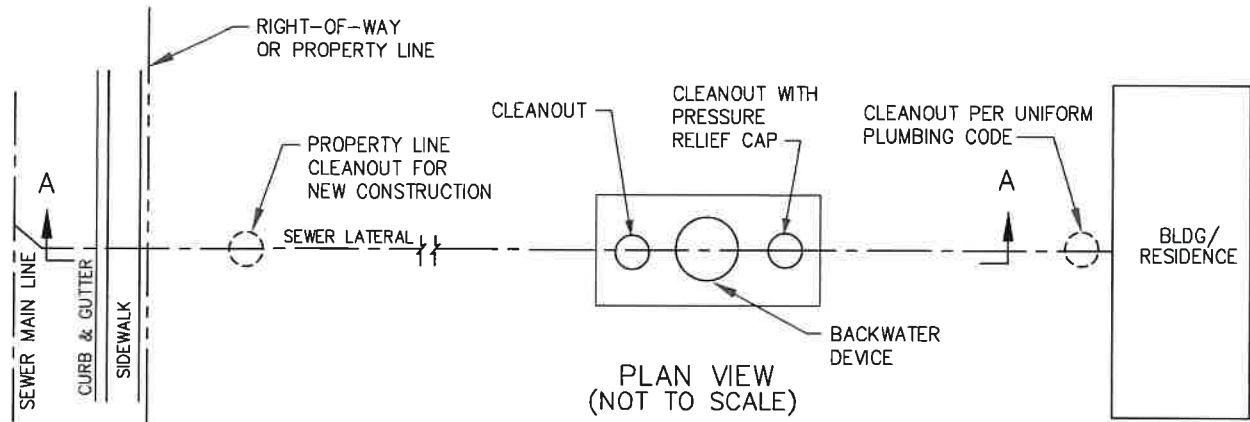
CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

4" BACKWATER DEVICE  
 (FOR LATERALS 2' OR DEEPER)

| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
|           |      |         |
|           |      |         |

DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S8



SECTION A-A  
(NOT TO SCALE)

**NOTES:**

1. WHEN BACKWATER DEVICE IS INSTALLED IN THE DRIVEWAY, ALLEY OR STREET, A TRAFFIC RATED BOX AND LID IS REQUIRED.
2. ALL PIPING SHALL BE SPECIFIED AS VCP PIPE.

| ITEM NO. | SIZE AND DESCRIPTION   |
|----------|--|
| ①        | INSTALL VALVE BOX SO THAT IT IS FLUSH WITH EXISTING PAVEMENT OR SIDEWALK SURFACE, AND 1" ABOVE GRADE WHEN INSTALLED IN LANDSCAPE AREA. |
| ②        | BACKWATER DEVICE AND ATTACHED PARTS SHALL BE PER UNIFORM PLUMBING CODE (U.P.C) AND APPROVED BY THE BUILDING DIVISION.                  |
| ③        | CLEANOUT PLUG (ABS) THREADED.  |
| ④        | SAN-TEES ARE ALLOWED WHERE ID IS LESS THAN 24" DEEP.   |
| ⑤        | CLEANOUT WITH AN APPROVED PRESSURE RELIEF CAP. CAP SHALL NOT PROJECT INTO THE SEWER LATERAL CROSS SECTIONAL AREA.                      |

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263

9/18/17  
 DATE

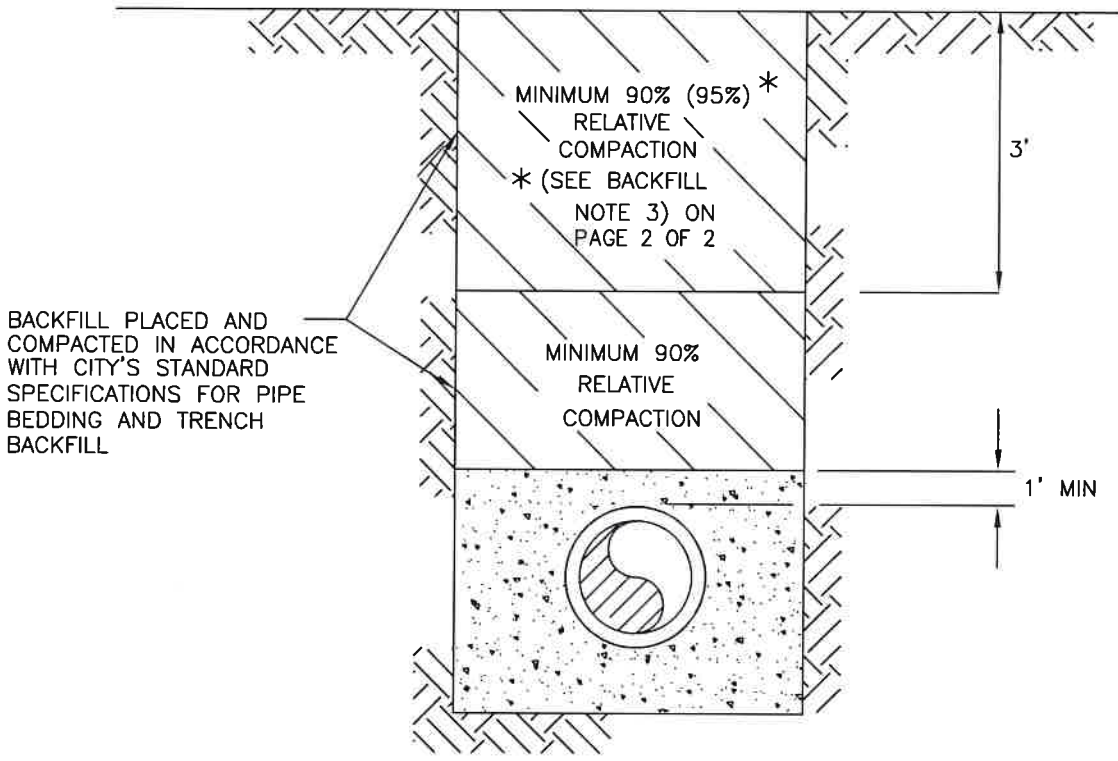
CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

4" BACKWATER DEVICE - SHALLOW  
 (FOR LATERALS)

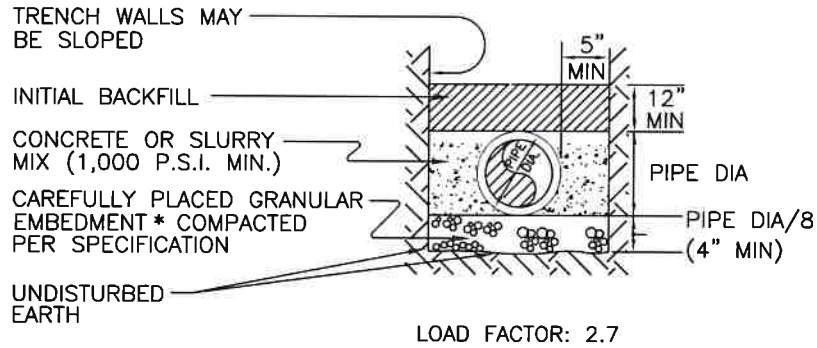
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DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S9



**BACKFILL DETAIL**  
NO SCALE



LOAD FACTOR: 2.7

NOTE: THIS TYPE OF CONSTRUCTION REQUIRES THE CONCRETE TO EXTEND FROM THE PIPE TO THE TRENCH WALL. CAUTION: NOT RECOMMENDED WHERE NATIVE SOILS ARE EXPANSIVE.

**SLURRY BACKFILL DETAIL**

*René Guerrero*  
RENE GUERRERO, CITY ENGINEER  
RCE NO. 66263

8/28/17  
DATE

CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

PIPE BEDDING AND  
TRENCH BACKFILL NOTES

DRAWN BY: AA  
CHECKED BY: IL, RG, NH  
APPROVED BY: DP

STANDARD

S10  
1 OF 2


| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
|           |      |         |
|           |      |         |

## BACKFILL NOTES

1. MATERIAL FOR COMPACTED BACKFILL WILL CONSIST OF SUITABLE NATIVE EXCAVATED MATERIALS, IMPORTED SOILS, OR GRADED GRAVEL AS DEFINED IN THE PROJECT'S STANDARD SPECIFICATIONS FOR PIPE BEDDING.
2. TRENCH BACKFILL SLAG, PEA GRAVEL, CRUSHED ROCK, OR OTHER ALTERNATIVE MATERIALS ARE NOT ACCEPTABLE.
3. COMPACTION UNDER THE STREET SHALL BE 95% TO 6" BELOW PAVEMENT.

## BEDDING DETAIL NOTES

1. SLAG, PEA GRAVEL, OR OTHER ALTERNATIVE MATERIALS ARE NOT ACCEPTABLE IN LIEU OF GRANULAR EMBEDMENT. GRANULAR EMBEDMENT IS COARSE GRAINED NATIVE SOIL OR IMPORTED SAND WITH A MINIMUM SAND EQUIVALENCE OF 30, AND OF SUCH SIZE THAT 90 TO 100 PERCENT WILL PASS A NO. 4 SIEVE AND NO MORE THAN 5 PERCENT WILL PASS A NO. 200 SIEVE.
2. TRENCH SHORING AND TRENCH WALL SLOPING SHALL BE IN CONFORMANCE WITH STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
3. MATERIALS, EMBEDMENT, PLACEMENT AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL WILL CONFORM TO THE CITY'S STANDARD SPECIFICATIONS FOR PIPE BEDDING AND TRENCH BACKFILL.

|  |                 |   |   |
|--|-----------------|---|---|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 | 8/28/17<br>DATE | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT |   |
| PIPE BEDDING AND<br>TRENCH BACKFILL NOTES  |                 | STANDARD                                  | S10<br>2 OF 2   |
| REVISIONS  |                 | DATE                                      | INITIAL   |
| △  |                 |   | DRAWN BY: AA<br>CHECKED BY: IL, RG, NH<br>APPROVED BY: DP |

# **CITY OF POMONA SEWER DESIGN POLICY AND STANDARD DRAWINGS**

**May 2008  
Updated October 2013**



**The City of Pomona  
Public Works Department  
Pomona, California**





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# Introduction

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These Sewer Design Guidelines are for planning and design of wastewater collection facilities within the City of Pomona. This guide summarizes and outlines relevant City policies, applicable codes, engineering and operational practices, and procedures that have been developed to establish a cost-effective, reliable, and safe wastewater collection system. In conjunction with this design guide are all applicable current standard drawings, specifications, and industry requirements for the planning and design of wastewater infrastructures.

This guide is not a substitute for professional experience, nor is it meant to relieve the design engineer from his/her responsibility to use good engineering judgment. The engineer shall be responsible for providing a design that follows industry standards and allows crews to safely repair and maintain the facilities, provides good service, achieves useful life spans, and will not create a public nuisance or hazard. Under most conditions, this guide should serve as a minimum standard. However, it is not meant to preclude alternative designs when the standards cannot be met, or when special or emergency conditions warrant, as long as proper City authorization is obtained.

This guideline includes minimum design standards for sewer mains, sewer manholes, sewer laterals, and general guidelines for common sewer rehabilitation options.

This guideline does not include non-standard design considerations for wastewater facilities including pump or lift stations, force mains, inverted siphons, internal sealing of existing sewers, treatment plants, outfall sewers, energy dissipaters, regulating devices, and/or flow measurement devices.

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# Chapter 1

## Sewer Mains

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### 1.1 Horizontal Alignment

The street centerline is the preferred horizontal alignment for a proposed sewer collection system. The alignment should minimize costs and conflicts with other substructures. The minimum distance from a sewer main centerline or manhole shall be ten (10) feet from the edge of a street pavement or face of curb, and 15 feet from buildings. Maintaining these distances will minimize access constraints during construction and future repair activities, and reduce the possibility of root intrusion. In exceptional cases where the sewer must be located less than these minimum distances, a request for design deviation must be submitted and approved by the Water/Wastewater Operations Manager. If a deviation is allowed, design elements to mitigate the reduced distances will be required, and may include, but be limited to, pipe upgrades, pipe sleeves, deep foundations on adjacent structures, root barrier wraps or coatings, and underground root barrier walls.

#### 1.1.1 Straight Alignments Required

Sewer mains shall be designed and constructed in straight alignments between manholes. Straight sewers are easier to inspect, less vulnerable to damage from cleaning equipment, and easier to approximate its location in the field by inferring a straight line between manholes. Manholes may be located off of the centerline of residential streets and around curves, if all portions of the sewer main and manholes are a minimum of ten (10) feet from the edge of pavement or face of curb.

#### 1.1.2 Curves

Practical and economical situations may warrant the construction of horizontal curves in sewer mains between manholes. These situations may include, but are not limited to, avoiding existing substructures, reducing excessive manholes in curved and hillside streets, or avoiding short manhole to manhole runs where high velocity flow may overtop the manhole trough and shelf.

Whenever possible the sewer horizontal curve should be concentric with the street horizontal curve. The minimum radius of curvature attainable is governed by the proposed material constraints, the type of joint specified or permitted, the pipe segment lengths, the maximum bevel permitted, and the maximum separation of the abutting pipe ends permitted on the convex side of the curved sewer.

#### 1.1.3 Proximity to Medians

If the sewer will serve the property on one side of a street only, it may be located on that side of the street if no potential conflict with other utilities exists. If there will be or could be a raised median, the sewer line should be located on the south or west side of the street and a minimum of five (5) feet from the median curb, but it should be a minimum horizontal distance of ten (10)

# Sewer Mains

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feet from any trees or shrubs that are three (3) feet or higher at maturity. In such cases, the sewer shall be located in the center of the number one traffic lane or directly between the number one and number two lanes, under the lane striping. Sewer lines shall not be located below a public sidewalk.

## 1.1.4 Minimum Separation

The minimum distance between the outside edges of proposed sewer mains and parallel existing or proposed potable and non-potable water mains shall be at least ten (10) feet. Deviations, if allowed, shall be approved by the Water/Wastewater Operations Manager. Review and written approval shall be required from the Department of Public Health for separation deviations between water, reclaimed water, and sewer pipelines. A copy of separation guidelines from DPH is located in Attachment B – California Department of Health Services Guidance Memo No. 2003-02: Guidance Criteria for the Separation of Water Mains and Non-Potable Pipelines.

## 1.1.5 Stationing

Proposed sewer centerlines shall be tied by dimensions and stations to the street centerline and other similar features with appropriate field book references. All begin curves, end curves, and point of intersections of the horizontal curves shall be tied to these same references.

## 1.2 Vertical Alignment and Depth

The vertical alignment of sewer mains shall accommodate gravity flows from buildings, substructures, basement elevations, and other sources of wastewater generation, low ground elevations, and general terrain of the area being served. Generally, the shallowest vertical alignment will be the most economical. The minimum depth of sewer main inverts shall be seven (7) feet of cover over top of pipe except for at terminal reaches, which will be a minimum of six (6) feet

New sewers shall be designed with minimum depths to provide a sewer lateral depth of at least five (5) feet at the property line measured from the top of curb. Mains with a depth of 15 feet or greater (distance between invert and finished grade) shall require design approval from the Water/Wastewater Operations Manager.

Lateral depth requirements shall be considered in sewer replacement projects. No lateral connections will be allowed on mains that exceed 20 feet in depth. In those cases where mains are permitted to exceed 20 feet in depth, and lateral connections are necessary, a parallel collector sewer shall be required at standard depths. The design and installation of house lateral connections shall conform to the City of Pomona Standard Drawing S-5. Any deviation from the standard detail will require approval by the Water/Wastewater Operations Manager.

At a minimum, the profiles for sewer mains shall show elevations at the invert of manholes, invert at beginning and end of vertical curves, and at the top of manholes. At utility crossings, top and bottom elevations of the outside of pipes shall be shown as well as the top of ground surface.

## 1.3 Change in Direction

Sewer mains with a 15-inch diameter and smaller shall not have a change of horizontal direction greater than 90 degrees. Changes in direction shall occur in a manhole.

Sewer mains with an 18-inch diameter and larger shall not have a change of horizontal direction greater than 45 degrees. Changes in direction shall occur in a manhole, vault, or junction structure. Special attention should be given to assure laminar flow and avoid build-up of flow or debris on the manhole shelf.

## 1.4 Size

The size of a sewer main is defined as the inside diameter of the pipe. Sewer mains shall be a minimum of eight (8) inches in diameter in residential and multi-residential areas, and a minimum of ten (10) inches in diameter in commercial, industrial, and high-rise building areas. Sewer mains located in areas that include a combination of residential and/or commercial, industrial, or high rise buildings shall be a minimum of ten (10) inches in diameter.

If a new development that creates flows larger than the existing mainline can handle, then that development must pay for the upgrade in main size to accommodate existing and new flows.

## 1.5 Material

A variety of options are available for eliminating or minimizing possible problems arising from corrosive environments. Selection of appropriate materials for a given service is the most important consideration. It is also possible, in some cases, to modify the environment to which the materials will be exposed. The use of coatings or linings can also be effective in controlling corrosion of materials exposed to corrosive environments.

All proposed public sewer facility installations shall be constructed with materials currently listed in the latest edition of the City of Pomona Approved Materials List for Municipal Sewers (see Attachment A).

1. All VCP pipe and plastic gasket joints shall be made in strict conformance with all requirements of the latest revision of ASTM C700, ASTM C425, and to the requirements of these specifications. All pipe shall be high strength vitrified clay pipe conforming to the requirements of Section 207-8 of the Standard Specifications For Public Works Construction ("Greenbook"), latest edition.
2. All pipe shall be manufactured and tested in the United States. Testing shall conform to SSPWC Section 207-8.5.
3. All pipe and joints manufactured pursuant to these specifications shall be suitable for the conveyance of sewage. All joint materials shall have a strong, permanent bond to the pipe. All pipe and joints shall meet minimum requirements set forth in the most recent edition of the Standard Specifications For Public Works Construction ("Greenbook").
4. The actual cross-sectional area of the inside diameter of the pipe shall be not less than the computed cross-sectional area, based on the stated nominal diameter of the pipe.
5. Use plain end pipes with shear rings Per 306-1.2.3 (Type D Joint) for all point repairs and facility replacements.

# Sewer Mains

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Sewer mains within 50 feet of a domestic water supply (such as a spring or well) shall be constructed of polyurethane lined ductile iron with restraining joints. All sewers serving commercial or industrial facilities shall be polyurethane lined ductile iron pipe.

## 1.6 Capacity

For a new development and/or redevelopment, the planning study (inclusive of a sewer hydraulic model) shall address the capacity of all sewer collection and trunk sewer systems that will be impacted downstream of the new development and/or redevelopment, and shall demonstrate that sewer capacity is available in those systems to accommodate the new development and/or redevelopment. Authorization and approval to impact any downstream sewer system in excess of design criteria maximum capacity must be obtained from the City Water/Wastewater Operations Manager. If such downstream sewer system has already been identified as critical or sub-critical in a monitoring report, the City Water/Wastewater Operations Manager may require additional field monitoring of such downstream sewer systems to determine if adequate capacity is available.

For an existing development and/or redevelopment, the planning study shall address the existing capacity within the existing sewer collection system, and identify all existing facilities for which capacity will be exceeded by projected sewage flows.

In the absence of flow data or other reliable information, the Unit Generation Rates included in Table 1-1 may be utilized. Appropriate peaking ratios should be applied to determine flows, where specified by the City Water/Wastewater Operations Manager.

**Table 1-1  
Unit Generation Rates**

| Land Use                         | Unit Generation Rate             |
|----------------------------------|----------------------------------|
| Residential                      | 70 gallons per day per capita    |
| Light Industrial & Institutional | 0.04 gallons per day/square feet |
| Other Non-Residential            | 0.08 gallons per day/square feet |

Design calculations shall include calculations of average day, maximum day, and peak hour flows. The submission of design calculations will be required and engineers should be prepared to substantiate pipe sizes, layout, population estimates, land uses or other design assumptions used to determine design flow. Also, the define peaking factors in terms of dry or wet-weather peaking factors. Maximum-day factors are typically not used in calculating peak wastewater flows. A range of residential peak dry-weather factors should be provided based on the number of dwelling units in the drainage basins, i.e. 2.0 to 3.0 for 2,000 DUs and less; and 1.5 to 2.0 for over 2,000 DUs.

New sewer mains 12 inches and smaller in diameter shall be sized to carry the projected peak hour wet weather flow at a depth not greater than half of the inside diameter of the pipe ( $d_n/D$ )



not to exceed 0.50, where  $d_n$  is the nominal depth of the water in the pipe and  $D$  is the diameter of the pipe). New sewer mains 15 inches and larger in diameter shall be sized to carry the projected peak hour wet weather flow at a depth of flow not greater than  $3/4$  of the inside diameter of the pipe ( $d_n/D$  not to exceed 0.75).

### 1.6.1 Drainage Basin

For all new development and redevelopment projects, the planning study shall address the sewage generating potential of the entire drainage basin in which the new development or redevelopment project is located. It shall also include current topographic maps of the entire drainage basin and any and all adjacent new developments or redevelopment projects for which a planning study has not yet been submitted and/or approved. The maps shall demonstrate that no adjacent development will be precluded from obtaining sewer service, including potential and existing pumped lands outside of the drainage basin and any lands outside of the incorporated boundaries of the City of Pomona with potential to be served, where no current master sewerage plan exists. The planning study shall also show all desired sewer system alignments, superimposed upon planned street alignments.

### 1.7 Velocity and Slope

In order to minimize the formation of deposits, the minimum grade for sewer mains shall be such as to provide a velocity of not less than two (2) feet per second (fps) when the sewer is flowing half full under peak dry weather flow (PDWF) at the time the pipe is placed into service. Additionally, during periods of low flow an actual velocity of  $1\frac{1}{2}$  fps should be achieved. Manning's coefficient of roughness "n" shall be assumed to be 0.013 for all types of sewer pipe. The maximum flow velocity shall not exceed eight (8) fps. The standard minimum slope sewer main is 1.0 percent. Water/Wastewater Operations Manager approval must be obtained to use design velocities outside of the minimum and maximum range stated above, except in the extreme upper reaches of the system with few connections. This section is consistent with Sec. **62-394 Grades** of the Pomona Municipal Code.

### 1.8 Bedding

Normal bedding is full rock encasement. All sewers, including laterals with normal cover, shall be adequately bedded according to City of Pomona Standard Drawing S-10. The induced trench method of construction in which the trench is excavated in compacted fill and refilled with loose compressible materials shall not be allowed.

### 1.9 Easements and Encroachments

Public sewer mains outside of the public right-of-way, if it is in the best interest of the City to allow public sewer mains on private property, shall have permanent easements of adequate width for access to maintain, repair, replace, and rehabilitate the facilities. All appurtenances and isolated reaches of sewer main shall have permanent access easements for rehabilitation and maintenance vehicles and necessary equipment. The minimum easement width shall be

# Sewer Mains

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15 feet. Sewers 24 inches or larger in diameter or over 12 feet in depth may require wider easements.

## 1.10 Utility Crossings

Sewer mains shall cross substructures and utilities as close to perpendicular as possible. Sewer mains shall pass under potable, storm, and recycled water lines with a minimum of one (1) foot clear distance between the outside of each pipeline, or as required by the Department of Public Health (DPH). Any deviations shall be approved by the DPH and/or the City's Water/Wastewater Operations Manager as appropriate. In project locations where the minimum sewer and water separation cannot be achieved, a minimum six (6) foot concrete slurry encasement of the sewer main shall be constructed at the crossing. See Attachment B – Guidance Memo No. 2003-02: Guidance Criteria for the Separation of Water Mains and Non-Potable Pipelines, issued on April 14, 2003 from the California Department of Health Services.

## 1.11 Prohibited Locations

Construction of sewer mains shall be prohibited in the following locations, unless approval of specific written deviations is obtained from the Water/Wastewater Operations Manager and situations are mitigated with engineered solutions:

- a. Within wetlands
- b. Parallel to major highways and freeways (perpendicular crossings shall be allowed)
- c. Under structures
- d. Within ten (10) feet of trees or shrubs that mature naturally to a height of over three (3) feet
- e. Within medians
- f. Under sidewalks
- g. Parallel to railroad alignments unless a separate easement with access is acquired
- h. Inaccessible areas
- i. Within 15 feet of buildings
- j. Near the outlet of any storm drain catch basins
- k. Within ten (10) feet of a water main

## 1.12 Approval Requirement for Prohibited Locations

Special approval is required for construction of sewer pipelines in prohibited locations. Special details depicting horizontal and vertical relationship between the proposed sewer facility and existing pipelines, other utilities, and appurtenances are required. Existing utilities involved are to be potholed to verify vertical and horizontal location. A letter requesting special approval is to be submitted to the Public Works Department. The request for special approval is to include a discussion of why special consideration to construct a sewer main in a prohibited location is warranted. The submittal for special approval shall include the written request, pothole information, and special details.

### 1.13 Abandonment of Mains

Do not begin cut, plug, and abandonment operations until replacement sewer has been constructed and tested, and all service connections have been installed.

Install plug, clamp, and concrete reaction block and make cut at location shown on drawings.

After main to be abandoned has been cut and capped, check for other sources feeding abandoned sewer main. When sources are found, notify the Public Works Engineer or Public Works Inspector immediately. Cut and cap abandoned main at point of other feed as directed by Engineer.

Plug or cap ends or opening in abandoned main in manner approved by Engineer. Install concrete around cap and over pipe to ensure; before backfilling of a capped service line is started, the capping must be observed by the Public Works Engineer or Public Works Inspector.

Mark location of abandoned sewer laterals on drawings.

#### Cutting and Capping of Sewer Laterals

Do not begin cut, plug, and abandonment operations until replacement lateral, if necessary, has been constructed and tested, and all service connections have been installed.

Sewer laterals shall be cut and capped in two locations. The service line shall be cut and capped as close to the main as practical but no more than 5' from the main unless obstacles exist to prevent the same (pavement, other utilities, etc). Services shall also be cut and capped 5' from the building envelope.

Before backfilling of a capped service line is started, the capping must be observed by the Public Works Engineer or Public Works Inspector.

After sewer lateral to be abandoned has been cut and capped, check for any other sources feeding abandoned sewer service. When sources are found, notify the Public Works Engineer or Public Works Inspector immediately. Cut and cap abandoned main at point of other feed as directed by the Public Works Engineer or Public Works Inspector

Plug or cap ends or opening in abandoned service in manner approved by the Engineer.

Remove and dispose of surface identifications such as cleanouts. Clean-outs in improved streets, shall be filled with concrete.

Indicate that sewer laterals have been abandoned and their location on drawings.

#### Installation of Slurry

Abandon sewer lines by completely filling sewer line with slurry. Abandon manholes and other structures by filling with slurry or other inert material as applicable, within depth of structures left in place.

# Sewer Mains

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Temporarily plug sewer lines which are to remain in operation during pouring/pumping to keep lines free of slurry.

## 1.14 Leakage Test of Mains

Attention is directed to Section 306-1.4.4 of the Standard Specifications. Prior to connecting the sewer laterals to the sewer mains, contractor shall plug and brace all openings, including wyes. Air shall be introduced into the main until a pressure of 4 psi has been reached at which time the pressure shall be maintained at 4 psi for at least 2 minutes. Disconnect the air supply. Allow the pressure to drop to 3.5 psi at which time start a stop watch. Determine the time in seconds that is required for the pressure to drop to 2.5 psi. If the time lapse (in seconds) required for the air pressure to decrease from 3.5 psi to 2.5 psi exceeds that shown below, the pipe shall be presumed to be within acceptable limits for leakage.

| <u>Pipe Length (in feet)</u> | <u>Time Lapse (in seconds)</u> |
|------------------------------|--------------------------------|
| less than 50                 | 40                             |
| 50 to 100                    | 55                             |
| 100 to 150                   | 90                             |
| 150 to 200                   | 125                            |
| more than 200                | 140                            |

# Chapter 2

## Sewer Manholes

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### 2.1 Location

Manholes shall be required at the following locations:

- a. Change of grade of sewer pipe
- b. Changes in pipe size
- c. Change of flow direction
- d. At the beginning point and ending point of vertical curves if the curve is longer than 200 feet, or 25 feet downstream from the end of a vertical curve if the curve is less than 200 feet
- e. At the intersection of mains
- f. At the terminus of dead-end sewers
- g. At the discharge of a private pump station force main, where the designer shall provide a dedicated manhole prior to discharge to the public system
- h. Upstream of where industrial waste flows discharge into the sanitary sewer, for the purpose of sampling and measurement of flow of the industrial wastes
- i. Per maximum spacing requirements
- j. For sampling access and measurement of flow of industrial wastes before their discharge into a sanitary sewer.

To the extent possible, all sewer manholes outside the paved right-of-way shall have adequate access for vehicles, equipment, and crews to maintain or inspect the manhole and the associated pipelines.

All manholes located outside of the public right-of-way shall be equipped with approved locking covers with concrete collars to discourage vandalism.

All manholes located within inaccessible and unpaved areas shall require lock devices. Manhole rims shall be installed at a minimum of one (1) foot to a maximum of two (2) feet above the finished ground surface.

All manhole covers shall conform to the City of Pomona Standard Drawing S-4.

Manholes shall not be placed in the following locations:

- a. Inaccessible areas
- b. Gutters and other depressions or areas subject to inundation
- c. In sidewalks, crosswalks, or pedestrian ramps
- d. In driveways
- e. In freeway ramps or lanes

# Sewer Manholes

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- f. Closer than ten (10) feet to edge of pavement or face of curb when under pavement
- g. Between railroad tracks (manholes within a railroad right-of-way shall be located a minimum of 15 feet from track bed and in accordance with the requirements of the jurisdictional railroad authority)
- h. Within 15 feet of any structures, including subterranean or overhead structures

## 2.2 Spacing

The maximum distance between manholes for sewer mains with diameters between eight (8) inches and larger shall be 400 feet on sewers of constant diameter and having a straight line gradient and alignment. This requirement is consistent with the City's Municipal Code, Section. 62-395. - Manholes.

## 2.3 Depth

For sewer mains that exceed 25 feet in depth, vaults shall be provided with a minimum of two (2) access manholes for each vault. Calculations shall be provided to show that the vault structures are designed to accommodate the design depths. A separate structural permit is required.

The Plans shall show invert elevations within the manhole of both the inlet and outlet pipes and the rim elevation of each manhole. Manhole rungs or permanent ladders are not allowed.

The design and installation of drop manholes shall conform to the City of Pomona Standard Drawing S-3. Any deviation from the standard detail will require approval by the Water/Wastewater Operations Manager.

## 2.4 Size

The minimum manhole diameter shall be four (4) feet per City of Pomona Standard Drawing S-1 for all mains less than or equal to 15 inches in diameter. The minimum manhole diameter shall be five (5) feet per City of Pomona Standard Drawing S-2 for all mains larger than or equal to 18 inches in diameter. For sewer mains greater than 36 inches in diameter, special design and structural details for the manholes or vaults shall be shown on the plans. Vaults shall require a minimum of two (2) access manholes. A separate structural permit is required.

## 2.5 Shelf

Manhole bases that accommodate a change in direction of flow shall be designed with sufficient freeboard on the "outboard shelf" to keep the entire flow cross-section within the manhole channel without spillage onto the "outboard shelf". Minimum trough depth shall be per City's standard drawings. The area of the shelf in manholes shall be of approximately equal area on either side of the main channel, except in manholes with changes in direction of sewer flow. The shelf elevations shall be shown on the plans and shall be of equal height on both sides of the channel.

## **2.6 Maximum Invert Drop across Manhole**

The maximum difference in invert elevation across a manhole shall be 0.60 feet for straight-through flow, and 1.00 feet for side inlet flow.

## **2.7 Minimum Invert Drop across Manhole**

The minimum difference in invert elevation for straight-through manholes shall be 0.10 feet. For manholes that cause a change in flow direction, the minimum difference in invert elevations shall be 0.20 feet.

## **2.8 Drop Manhole**

Outside drop assemblies shall be provided for pipes 12 inches in diameter and smaller when entering a manhole at a distance of more than 24 inches above invert of the manhole. Larger pipes should be introduced into the manhole at the manhole invert. Inside drop assemblies will be considered only in special cases involving connections to existing manholes. Special approval for all drop assemblies is required from the City Water/Wastewater Operations Manager. The design and installation of drop manholes shall conform to the City of Pomona Standard Drawing S-3, and deviation from the Standard Detail will require approval by the City Water/Wastewater Operations Manager.

## **2.9 Demolition of Sewer Manholes Prior to Abandonment**

Remove manhole frames and covers and castings from other existing pipeline structures. Deliver castings to nearest City Yard. Alternatively, salvaged castings may be used upon approval by the Public Works Engineer or Public Works Inspector, for constructing new manholes on this project.

Demolish and remove precast concrete adjustment rings and corner section, or brick and mortar corbel and chimney, or other pipeline structure, to minimum depth of 4 feet below finished grade. Structure may be removed to greater depth, but not deeper than 18 inches above crown of abandoned sewer.

When adjacent sewer lines are not to be filled, place temporary plugs in each line connecting to manhole, in preparation for filling manhole.

## **2.10 Leakage Test of Manhole**

Water tightness of manholes may be tested at the time the manhole is completed and backfilled.

Any evidence of leakage as a result of testing shall be repaired to the satisfaction of the Inspector.

## Sewer Manholes

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The manhole shall be filled with water to an elevation one (1) foot below the start of the cone section with minimum depth of four (4) feet and a maximum depth of twenty (20) feet. The Contractor shall plug all inlets and outlets with approved stoppers or plugs and fill the manhole to the limits indicated above.

The water shall stand in the manhole for a minimum of one (1) hour to allow the manhole material to reach maximum absorption. After the one (1) hour period has elapsed, the Contractor shall refill the manhole to the original depth and the drop in water shall be recorded after a period of from fifteen (15) minutes to one (1) hour has elapsed, said time of the test shall be determined by the Inspector to fit the various field conditions.

The maximum allowable drop in water surface shall be one-half inch ( $\frac{1}{2}$ " ) for each fifteen (15) minute period of testing. Even though the leakage is less than the specified amount, the Contractor shall stop any leaks that may be observed to the satisfaction of the Inspector.



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# Chapter 3

## Laterals

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Service lateral connections allow buildings and facilities to discharge appropriate wastewater flows into the public wastewater collection system. Although installation, maintenance, and repair of the service laterals and connections are the responsibility of the property owner served per Pomona Municipal Code, Section 62-399, service laterals must adhere to the following criteria.

### 3.1 Location

New sewer laterals shall not be located under driveways or ornate hardscape improvements unless no other alternative exists. If the lateral already exists, or sufficient area is not available to locate the lateral outside of driveways due to cul-de-sacs, trees, etc., the horizontal alignment coordinates and vertical depth of inverts shall be included on the improvement plans.

Laterals shall not be located within five (5) feet of water meters or within ten (10) feet of trees or shrubs that are three (3) feet or higher at maturity. Sewer laterals shall be a minimum of five (5) feet apart (center to center), and at least five (5) feet downhill from the water service.

For large buildings, the project is entitled to two (2) lateral connections to the public system. Additional private laterals are allowed provided it can be shown that the entire project flow cannot be served by two laterals that are sized per the Uniform Plumbing Code. Where the sewer main is located in an easement with no drivable access or in an alley or street, new laterals shall not be connected unless there are no available alternate sewer facilities.

Common sewer laterals serving two (2) or more lots are not allowed unless the lots are under the governance of a maintenance association and a copy of the recorded covenants, conditions, and restrictions (CC&R) is provided to the City's plan reviewer.

Sewer laterals within the public right-of-way shall be perpendicular to the sewer main.

Sewer laterals shall not cross lot lines unless there are no other reasonable options. A private easement shall be dedicated to the lot benefiting from the lateral. A properly executed and recorded easement shall be completed prior to, and submitted with, the initial submittal for engineering plan check.

### 3.2 Backwater Devices

Sewer laterals shall be equipped with an approved backwater device at all locations where dictated by the currently adopted edition of the Uniform Plumbing Code to prevent public sewage from overflowing into structures if the sewer main should fail. Backwater devices shall be installed at all locations where the finished floor of an adjacent property is less than two (2) feet above the nearest upstream manhole's rim elevation. Backwater devices shall be installed outside of the public right-of-way and shall be maintained by the property owner. Deviations, if

# Laterals

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allowed, shall be approved by the City Water/Wastewater Operations Manager. See Pomona Standard Drawings S-8 and S-9 as applicable.

### 3.3 Lateral Connections

Sewer lateral connections shall be made in accordance to Table 3-1 below:

**Table 3-1  
Sewer Lateral Connections**

| Size/Type of Lateral   | Size of Main            | Connection Made At |
|------------------------|-------------------------|--------------------|
| 8" diameter or smaller | 15" diameter or smaller | Main or Manhole    |
|                        | 18" diameter or larger  | Manhole            |
| 10" diameter or larger | Any Size                | Manhole            |
| Pressure Lateral       | Any Size                | Manhole            |

NOTE: at no time shall the main be smaller than the lateral

Sewer lateral connections in non-paved easements shall not be allowed where the connection can be made into a sewer main in a public right-of-way or paved easement. All laterals which connect to a public sewer main in an easement, rather than the public right-of-way, shall be labeled as "Private" on the improvement plans.

### 3.4 Slope

The standard minimum slope for a sewer lateral is two (2) percent. The slope shall not exceed one (1) horizontal to one (1) vertical (100 percent). Laterals, which must exceed 100 percent slope within the public right-of-way, shall be considered deep-cut laterals. Deep-cut laterals shall only be permitted with the approval of the Water/Wastewater Operations Manager.

### 3.5 Depth

Sewer laterals shall be a minimum depth of five (5) at the property line and measured at the top of curb. Single, shallow laterals may be allowed between three (3) feet and five (5) feet in depth with special approval from the Water/Wastewater Operations Manager. When special circumstances dictate that the cover over a lateral must be less than three (3) feet, the lateral should be fully encased in concrete, loading and deflection calculations must be submitted, and approval by the Water/Wastewater Operations Manager shall be required. Polyvinyl chloride (PVC) shall not be used with concrete encasement. Use only extra strength vitrified clay pipe or ductile iron pipe with concrete encasement.

Lateral connections to deep sewers (greater than 15 feet) shall be avoided wherever possible. No lateral connections will be allowed on mains which exceed 20 feet in depth.

### 3.6 Cleanouts

Omitted

## 3.7 Connections to Sewer Mains and Trunk Sewers

Lateral connections to new sewer lines must be constructed using a wye fitting. Lateral connections to existing sewer mains may only be made through a wye fitting or saddle type connection. Holes for saddle type connections must be core drilled. Cutting, chipping, or breaking out an opening for a lateral connection and sealing the opening with a concrete lug shall not be allowed.

Sewer lateral connections to trunk sewers 18 inches in diameter and larger shall not be allowed except in certain cases where all of the following criteria are met:

- a. A sewer main of 15-inch diameter or less is not accessible within 500 feet
- b. An odorless connection is provided such that the lateral at the connection is matched as closely as possible with the invert of the trunk sewer; this type of connection requires approval of the Water/Wastewater Operations Manager
- c. Within 20 feet of the connection, the invert of the lateral is above the peak flow for the trunk sewer at the location of the connection
- d. The Water/Wastewater Operations Manager grants approval prior to the connection being made

The connection shall be recorded on a public improvement drawing which shall show both plan and profile of the connections, and be labeled as private. In cases where more than one sewer lateral connection to a trunk sewer is proposed in the same area, a smaller diameter collector sewer must be constructed to convey the flow of the laterals to the trunk sewer.

There are fees that must be paid prior to connecting to the City's sewer system pursuant Pomona's Municipal Code Sec. 62-398, Sec. 62-399, and Sec. 62-400. These fees cover sewer construction permit, connection, and inspection fees.

## 3.8 Size of Connection

Connections of sewer laterals into existing sewer mains shall be at least two (2) inches less than the diameter of the sewer mains into which they discharge. To prevent the introduction, accidental or otherwise, of articles of an injurious nature, all house connections shall be restricted to a minimum inside diameter of four inches. However, 6-inch and 8-inch diameter laterals may connect into a sewer main of the same size. If such a connection is permitted, a hydraulic analysis shall be required to ensure sufficient capacity in the main and the connection shall be made through a wye fitting. The wye branch of the sewer main is to be inclined upward at a maximum angle of 45 degrees from the horizontal and connected to the lateral through a 1/8 bend.

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# Chapter 4

## Sewer Rehabilitation

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Renewal of sewer pipelines and manholes is a viable alternative to replacing aging and deteriorated infrastructure. This section describes the inspection and assessment process and provides some acceptable renewal options.

### 4.1 Sewer Inspection and Assessment

Inspection and assessment is used to evaluate existing system conditions and identify potential defects that could contribute to overflows. Such conditions include root intrusion at misaligned joints or cracks, and inflow and infiltration entering into the system through cracks in pipes, manholes, or via illegal storm drain connections. Acceptable inspection methods include, but are not limited to, external and internal visual observations, closed circuit television (CCTV) inspections, and line lamping.

The collected inspection data is then evaluated by a knowledgeable engineer using objective criteria to rank the defects and prioritize needed improvements. The results of a sewer assessment are then used to determine the funding required to repair, rehabilitate, and/or replace an aging collection system and to prioritize how the funds should be allocated.

### 4.2 Sewer Pipeline Rehabilitation Options

General approach to selecting appropriate rehabilitation alternatives are summarized below in Table 4-1. The rehabilitation selection method based on the guidelines provided below is not a substitute for the experience and knowledge of the staff and engineers performing the assessment. The unique situation and condition of each segment must be considered when finalizing recommendations. As such, not every recommendation will rigidly adhere to the methods and rules below.

**Table 4-1  
Sewer Pipeline Improvement Alternatives**

| Description of Defect   | Recommended Method   |
|---|--|
| Roots, broken or cracked pipe, misaligned or open joint, and/or grade break at 1 or 2 locations along a pipe segment.   | Point repair (if total pipeline length is > 300 feet);<br>Replacement (if total pipeline length is < 300 feet) |
| Roots only, more than 2 locations   | Lining, Chemical Herbicide or Repetitive Cleaning  |
| Multiple cracks only – minor to medium  | Lining   |
| Roots most joints with multiple cracks, no offsets  | Lining   |
| Roots at most joints with major offsets, breaks, major cracks or major grade breaks and all other conditions not noted. | Replacement  |
| Severe defects requiring replacement in difficult to access locations or areas of high traffic congestion               | Pipe bursting, bore and jack, directional drilling or micro tunneling  |

# Sewer Rehabilitation

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All surface improvements shall be restored to the same condition or to a better condition than that which existed before the repair, replacement, or rehabilitation activities occurred. The following descriptions summarize a variety of rehabilitation and repair methods.

## 4.2.1 Point Repairs

Where defects are noted from internal and video inspections at one to two locations between manholes, point repairs should be recommended. However, for short pipe segments less than 300 feet with two (2) defects, point repairs may affect the integrity of the remaining pipe and full pipe replacement is usually recommended. Point repairs are cost effective alternatives to full pipe replacement if the remaining portions of the pipe are in good condition as noted from the internal or video inspections and replacement of the entire pipe segment appears unwarranted.

## 4.2.2 Pipe Lining

Pipeline lining offers a trenchless method to rehabilitate deteriorating sewer mains. Because no open trenching is required during the lining application, there is minimal disruption to residents and business owners during construction. Lining of sewer mains is recommended for pipes with rooting problems and/or cracks with no major offset joints. Generally, pipes smaller than eight (8) inches in diameter should be candidates for replacement.

Where breaks, major offsets, or bends are noted in the video inspections, lining is not recommended because the lining material cannot be applied properly where these conditions occur. In choosing an appropriate repair method, there are cases where it may be cost effective to consider combining point repairs with lining.

Several methods of lining can be used to rehabilitate a pipeline. Cured-in-Place Pipe (CIPP) lining involves inverting a resin-impregnated fabric tube into a clean, existing pipeline, then curing it in place with hot water or steam. Fold-and-form lining requires pulling a fabric tube, saturated with a resin and folded into a U-shape, into a clean, existing pipe, then expanding the tube to the shape of the pipe with pressurized water before curing with heated water or steam. Both of these methods require the flow to be plugged or diverted during the installation process.

Spiral wound pipe is another lining method that inserts a continuous strip of reinforced plastic, usually six (6) or eight (8) inches wide, into an existing pipe, which interlocks to form a watertight seal. Spiral wound pipe can typically be installed in a live sewer without plugging or diverted the flow. Pipes smaller than eight (8) inches in diameter shall not be candidates for spiral wound rehabilitation.

All of these lining methods can provide a system with independent structural integrity that does not rely on the host pipe for strength.

## 4.2.3 Pipe Bursting or Reaming

Pipe bursting or pipe reaming offers a solution to replacing defective pipe that has access at its end points but not between, such as pipe that crosses a freeway or major intersection. Pipes that are good pipe bursting candidates generally have no bends or curves and have adequate slope with very minor or no sags. Access pits are required at the ends of the pipe segment being burst. If any service connections must be reinstated, access pits are required at these



locations as well. The size of the pipe can generally be increased to the next standard pipe diameter above the existing diameter, and possibly to the next standard pipe size depending on the existing soil conditions and adjacent utilities. The material used for the replacement pipe includes high density poly-ethylene (HDPE) pipe or joint-fused PVC pipe. This method may be more costly than traditional dig and replace, but it is generally faster and less disruptive to the environment and community, thereby resulting in intangible benefits.

### **4.2.4 Pipeline and Manhole Replacement**

Replacements of pipe segments are recommended where multiple occurrences of breaks, cracks, misaligned joints, grade breaks and roots are identified in the video inspections. In addition, where pipe replacement is recommended, replacement of both manholes at each end of the pipe is also recommended. For maintenance purposes, pipelines with a 6-inch or less diameter are recommended for replacement with 8-inch diameter pipe. Actual replacement must be evaluated on a case by case basis after considering several factors such as pipe condition, slope, cleansing velocity, capacity, and available maintenance equipment and methods.

### **4.3 Manhole Rehabilitation**

Rehabilitation of a manhole may be required for one or more of the elements associated with a manhole which includes:

- a. Frame
- b. Cover
- c. Riser
- d. Cone
- e. Wall
- f. Steps
- g. Bench
- h. Trough
- i. Base
- j. Pipe Connections

#### **4.3.1 Rehabilitation or Replacement Criteria**

Rehabilitation or replacement of the manhole shall be determined based on the following criteria:

- a. structural integrity and condition
- b. location
- c. pipe size and hydraulic condition
- d. invert depth
- e. environmental sensitivity
- f. construction accessibility
- g. cost of the proposed improvements

## Sewer Rehabilitation

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The type and extent of the rehabilitation required will be determined based on the severity of the existing condition and accessibility of the manhole. Rehabilitation may include improvements to one or several of the elements to restore the manhole to an acceptable condition, or it may require improvements to all elements. Requirements for each manhole shall be evaluated independently and only the necessary improvements will be detailed.

Reset Frame and Raise to Grade. Resetting the frame is a method intended to adjust a frame that has moved horizontally and/or to raise the cover above grade to prevent inflow, mostly in non-paved areas (for example, when a cover is located in a slight depression where ponding of water occurs). The installation involves minimal excavation - only enough to allow replacement of damaged concrete leveling rings and addition of new rings to bring the top of the frame above grade.

- Manhole Pans. Manhole pans fit under the manhole cover and are intended to prevent inflow through holes in the manhole cover. The pans are either HDPE or stainless steel.
- Manhole Covers. Gasketed manhole covers are steel covers with an inset gasket either in the frame or placed between the frame and cover. They are intended to prevent inflow from around the manhole cover. Solid manhole lids without holes are available, as are plugs for the holes.

### 4.3.2 Accessibility

All manhole replacements or rehabilitations will be evaluated for accessibility. Manholes located on private property will require approval from the property owner. All required environmental clearances will be obtained from the City prior to commencement of work.

### 4.3.3 Repair Methods

Repair methods may include patching, grouting, sealing for infiltration, lining and replacement of various manhole elements or even the entire manhole. Selecting the appropriate lining method depends on the existing condition of the manhole. Rehabilitation methods including spray-on applications (e.g., corrosion resistant vinylesters and polyesters, and epoxy and polyurethane products), trowel-on applications (e.g., cementitious applications), T-lock liners (e.g., polyurethylene sheets), and rehabilitation liners (e.g., epoxy impregnated fiberglass liners).

### 4.3.4 Plans and Specifications

Plans and specifications illustrating the location of each manhole, site constraints and necessary traffic control plans will be provided to the City for review and approval. The plans, known as Sewer Development Plans, and specifications shall include typical details, details to restore the surrounding area to its existing condition or better, and manhole site-specific notes, if necessary.

# Chapter 5

## Design Plans and Profiles

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Plans will be required for all new, rehabilitated, or extended sanitary sewers and shall include both a vicinity map and a general layout map of the area showing the location of existing facilities and of the proposed improvements. Plans should be accurate, legible and properly detailed. Dimensions should be either from right-of-way centerline or property lines. Additionally, all plans should also have a suitable title plate with the following information: name and address of owner; scale; north point; date; drawing number; and the name, address, telephone number, R.C.E. number with expiration date, and signature of the Registered Civil Engineer.

### 5.1 Engineering Drawings (Plans)

Plans for sewer lines should contain at least the following information:

- a. Adjacent streets, property lines, tax lot numbers, utility easements and references thereto.
- b. Location of sewer mains and appurtenances. Each manhole shall be numbered and stationed to facilitate checking the plans with the profiles.
- c. Location of water courses, wells, stream and railroad crossings, water mains, gas mains, culverts and underground power, CATV, or other utilities wherever possible.
- d. Limits of hard surface paving with dimension reference.
- e. Plans should be drafted to scale at 1" = 40' (preferred), or 1" = 20' (maximum). Not to exceed 24" x 36."
- f. Use of the Regional "standard symbols" is recommended for use on the plan view section.
- g. City approval block and notes such as: "easement required" and "county permit required."
- h. As-built plans submitted by the engineer of work shall include a 1" = 100' photo mylar transfer of the project including the sewer service.
- i. Indicate if the main is private
- j. Location of existing sewer

### 5.2 Engineering Drawings (Profiles)

Profiles for the individual sewer lines should contain at least the following information:

## Design Plans and Profiles

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- a. Location of manholes and other appurtenances with each manhole numbered and stationed.
- b. Profile of existing and proposed ground surface and sewer invert.
- c. Size, pipe class, slope, length of sewer, and pipe bedding class between consecutive manholes.
- d. Elevation of original ground and finished grade shall be shown graphically and sewer inverts specified at each manhole. Datum utilized for all elevations shall be City datum (USC&GS, 1959). Project control benchmarks shall be identified on the drawings.
- e. Limits of street improvements will be shown and a typical section of the subject street.
- f. Profiles should be drafted to scale at 1" = 4' or 1" = 8' (if in steep terrain). Alternate scales will be considered for plans at other than 1" = 40'.
- g. Existing storm drains, water lines, and other appurtenances that may create a change in the pipeline alignment

### 5.3 Sewer Appurtenances

Appropriate City of Pomona and Regional Standards shall be included in all plans for construction of sanitary sewer lines.

### 5.4 Separate Drawings

Separate plans shall be submitted for public sewers installed in combination with private sewers or site plumbing. "Site plumbing" drawings are not acceptable. Public sanitary sewer plans may be combined with other public improvement plans, provided that the plans must be legible and properly detailed.

Appropriate labeling of the services as "Public" or "Private" will be done on both the plan view and profile view.

### 5.5 Specifications and Special Provisions

Engineering consultants are encouraged to develop specifications and special provisions for each project. Specifications and special provisions shall incorporate the Standard Specifications for Public Works Construction, "Greenbook," the latest Edition with the Regional Supplement Amendments prepared by the California Chapters of American Public Works Association and Associated General Contractors of America. Special specifications pertaining to materials and workmanship, if developed, shall be submitted to the City for review and approval, together with check prints of the project.

In general, the sewer specifications should cover pipe material, excavation, laying of sewer pipe, jointing, backfilling, testing, etc. Strict supervision will be provided by the City during construction to assure compliance with the specifications.

### 5.6 Inspection and Testing

The contractor shall be responsible for providing the CCTV report and inspection documentation for submittal to the City Water/Wastewater Operations Manager at least thirty (30) working days in advance of the anticipated date that final construction acceptance.



# Chapter 6

## Standard Drawings

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The wastewater collection system standard details on the following pages are being proposed for use by the City of Pomona. The proposed standards will be evaluated by City staff in light of current City, LACSD, and Greenbook standards. Once agreement has been reached on the final standard, the process dictates that approval must be obtained by the Public Works Director or his designee. The details are:

| <b>Detail #</b> | <b>Title</b>   | <b>Number of Pages</b> |
|-----------------|--|------------------------|
| S-1             | Manhole 4' X 3' (15" Diameter and Smaller)                 | 2                      |
| S-2             | Manhole 5' X 3' (18" Diameter and Larger)                  | 2                      |
| S-3             | Drop Manhole (For 8" or 10" Pipe)                          | 1                      |
| S-4             | 36" Manhole Frame and Two Concentric Covers (Heavy Duty)   | 1                      |
| S-5             | House Connection (Sanitary Sewer Lateral)                  | 2                      |
| S-6             | Sewer Main Cleanout  | 1                      |
| S-7             | Sewer Main Cleanout Access                                 | 1                      |
| S-8             | 4" Backwater Device (for Laterals 2-Feet or Deeper)        | 1                      |
| S-9             | Backwater Device Shallow Installation (Less than 24" Deep) | 1                      |
| S-10            | Pipe Bedding and Trench Backfill                           | 3                      |

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**Attachment A**  
**City of Pomona**  
**Approved Materials List for Municipal Sewers**

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**CITY OF POMONA  
APPROVED MATERIALS LIST FOR MUNICIPAL SEWER**

| SUBJECT  | SPEC. REF.                               | MANUFACTURER<br>(Series/Model No.)  | ADDITIONAL REQUIREMENTS  |
|--|--|---|--|
| <b>A. Sewer Pipe<sup>1</sup></b><br>(1) Vitrified Clay Extra Strength Pipe and Fittings  | <sup>2</sup> 207-8<br>ASTM C 780         | Pacific Clay Pipe<br>Gladdin & McBean<br>Mission Clay   | Plain End & Bell and Spigot Type Pipe  |
| <b>B. Sewer Laterals</b><br>(1) Vitrified Clay   | <sup>2</sup> 207-8                       | Gladdin & McBean<br>Mission Clay  | Plain End & Bell and Spigot Type Pipe  |
| <b>C. Sewer Fittings</b><br>(1) Vitrified Clay   | <sup>2</sup> 207-8                       | Gladdin & McBean<br>Mission Clay  | Plain End & Bell and Spigot Type Pipe  |
| <b>D. Pre-Cast Manhole Bases</b>   | ASTM C 478                               | Mar-Con Products  |  |
| <b>E. Sewer Rehabilitation Products<sup>3</sup></b><br>(1) PE Solid Wall<br>(2) Cured-In-Place<br>(3) Profiled PVC<br>(4) Deformed Solid Wall PE | 500-1.3<br>500-1.4<br>500-1.5<br>500-1.7 | Chevron Plexco<br>Phillip Driscopipe<br><br>Inliner-Fabric tube: polyester felt,<br>Resin: Dow Derakane 411 vinylester<br><br>Insituform-Fabric tube: Polyester felt<br>Resin #1: Shell Epon 9215 epoxy<br>Resin #2: Interplastics VE8319<br>vinylester<br><br>Danby Hydroconduit Uliner –<br>Novacor resin | Reno, NV plant<br>Watsonville, CA plant<br><br>Houston, TX plant<br><br>Memphis, TN plant<br><br>Toronto, Canada plant<br><br>Roaring Springs, TX plant<br>Houston, TX plant |
| (5) CCFRPM<br><br>(6) Folded Solid Wall PVC  | 500-1.8<br><br>500-1.10                  | Hobas<br><br>American Plastics AMLiner<br>Insituform Nupipe<br><br>Rib Loc  | Birmingham, NY plant<br>Waco, TX plant<br><br>Gepps Gross, South Australia<br>Plant<br><br>Manufacturing Plant Site: Terre<br>Hill Composites, Division of Terre             |

| SUBJECT   | SPEC. REF.   | MANUFACTURER<br>(Series/Model No.)   | ADDITIONAL REQUIREMENTS   |
|---|--|--|---|
| <p>(7) Machine Spiral Wound PVC</p> <p>(8) MultiPlexx Liner System, Type PVCP</p> <p>(9) Raven 405 Epoxy Lining System</p>  | <p>500-1.13</p> <p><b>Add: 500-2.5</b><br/>Cured-In- Place Manhole Rehabilitation</p> <p><b>Add: 500</b></p> | <p>Product: MultiPlexx Liner System by Terre Hill Composites</p> <p>MultiPlexx Liner System: Type/Model PVCP 20-28 ≥ 88 mils consisting of :</p> <p>PVC Liner: 20 mils PVC</p> <p>Polyester Fleece Backing: 10 oz/yd<sup>2</sup></p> <p>Fiberglass Backing: 18 oz/yd<sup>2</sup></p> <p>Resin: EPON 9215 at 0.0005 gallons per square foot of manhole area</p> <p>Epoxy: Application to substrate surface of manhole to be rehabilitated.</p> <p>Product: Raven 405 Epoxy Liner System by Raven Lining Systems, Inc. Raven 405 is a solvent-free 100% solids, extra high-build epoxy which can be applied over 200 mils in a single application. Light blue is the standard color when applied. Theoretical coverage averages 40 ft<sup>2</sup> per gallon at 40-mil thickness.</p> <p>Product shall be applied by an applicator approved and certified by Raven Lining Systems.</p> | <p>Hill Concrete Products, Terre Hill, Pennsylvania</p> <p>Resin: Manufactured by Resolution Performance Products</p> <p>Installers: Tejon Constructors, Inc.</p> <p>Raven 405 Epoxy is manufactured by Raven Lining Systems, Inc. Plant is located at 1024 North Lansing Avenue, Tulsa, Oklahoma 74106</p> |
| <p><b>F. Miscellaneous</b></p> <p>(1) Flexible Couplings</p> <p>(2) Transition Gaskets</p> <p>(3) High-Deflection Couplings 4 thru 12 inches diameter</p> <p>(4) Flexible Saddles (Wye)</p> | <p>ASTM D 1869</p>   | <p>Smith-Blair 441 Rockwell APAC (331, 323, 335), (CDC-EC) DFW Plastics, Inc.</p> <p>Newby Rubber, Inc.</p> <p>Certainteed</p> <p>DFW Plastics, Inc.</p>   |   |

<sup>1</sup> PVC pipe shall be furnished in 12-½ foot maximum laying lengths, with specific approval needed from the City Water/Wastewater Operations Manager for 20-foot lengths or longer.

<sup>2</sup> References are to the 2006 Edition of the Standard Specifications for Public Works Construction and the latest versions of the ASTM Specifications.

<sup>3</sup> A limitation is placed on the sealing and bonding methods and processes for lateral connections of the pipe rehabilitation methods included in this list. The limitation will continue on each method until a proven, permanent sealing and bonding method compatible with the liner material and having structural integrity equal to the liner material is available. In the interim period the City will determine the sealing and bonding method of its choice for laterals on City projects. For projects where no lateral connections are needed, this limitation may not apply.

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**Attachment B**  
**California Department of Health Services**  
**Guidance Memo No. 2003-02: Guidance Criteria for the**  
**Separation of Water Mains and Non-Potable Pipelines**

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**Attachment C**  
**Pomona Sewer Standards 2011**

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**Attachment D**  
**City of Pomona Sewer Atlas Sheet Sample**

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**Attachment E**  
**City of Pomona Sewer Rate Ordinance**

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**Attachment F**  
**City of Pomona City Ordinance for Sewer Connection**  
**Fee**

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**Appendix H**  
**Sewage Lift Agreement**

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RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS  
OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED, MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

## CSD C# 4740

### TAKEOVER AGREEMENT

#### (Pumping Plants and Force Main)

This Takeover Agreement (“**Agreement**”) is effective December 18, 2012 (the “**Effective Date**”), and is between the CITY OF POMONA, a municipal corporation (“**Pomona**”) and COUNTY SANITATION DISTRICTS NOS. 2 AND 21 OF LOS ANGELES COUNTY, county sanitation districts organized and existing under the provisions of the County Sanitation District Act, Health & Safety Code §4700 et seq. (collectively, the “**Districts**” and individually, “**District 2**” and “**District 21**,” respectively).

A. The Districts are parties to an agreement with 15 other county sanitation districts, known as the Amended Joint Outfall Agreement, dated July 1, 1995 (the “**Joint Outfall Agreement**”). Under the terms of the Joint Outfall Agreement, the signatory districts own and operate the “**Joint Outfall System**,” a regional system of jointly-owned sewers, pumping plants, treatment plants, outfalls, and incidental sanitation works. Under the Joint Outfall Agreement, each of the signatory districts is responsible for the costs of its local sewers and pumping plants, plus its share of the cost of the Joint Outfall System based upon that district’s use of the system. District 2 is the administrative district for the Joint Outfall System.

B. Pomona is located in District 21 and owns four pumping plants that are shown on Exhibit A (collectively, the “**Pumping Plants**” and individually, “**Pumping Plant No. 1**”, “**Pumping Plant No. 2**”, “**Pumping Plant No. 3**”, and “**Pumping Plant No. 4**”, respectively). By an agreement dated March 3, 1986, Pomona and District 2 agreed that District 2 would operate and maintain the Pumping Plants on a temporary basis for the purpose of evaluating the feasibility of District 21 acquiring permanent ownership of the Pumping Plants.

C. The Districts reviewed and evaluated information provided by Pomona and determined that the Pumping Plants required certain upgrades to meet the Districts’ electrical and control standards. Pomona agreed to reimburse District 2 for cost of these upgrades. District 2 has completed upgrading the existing telemetry and control systems of the Pumping Plants, including a switchboard replacement at Pumping Plant No. 4 and the installation of a standby generator at Pumping Plant No. 2 (the “**Capital Upgrades**”). The total cost of the Capital Upgrades was \$556,804 and is itemized in the Summary of Costs attached as Exhibit B.

D. On November 9, 2005, Pomona requested that the Districts assume ownership of the sewer force mains associated with each of the Pumping Plants. To meet Districts’ standards for takeover, the Districts require a redundant force main to be built for any existing sewer force main.

E. Under the Sewer Force Main Replacement Project No. 586-86011, Pomona has built a replacement force main at Pumping Plant No. 4 (“**Replacement Force Main**”).

F. The Districts are willing to accept ownership and provide operation and maintenance of the Pumping Plants and the Replacement Force Main upon Pomona’s payment for the Capital Upgrades and

costs related to the Replacement Force Main, and upon Pomona's agreement to the terms and conditions set forth in this Agreement.

The parties therefore agree as follows:

1. Deliveries. Within 30 calendar days after full execution of this Agreement, Pomona shall deliver to the Districts the following:
  - (a) Payment to District 2 in the amount of \$556,804.00 for reimbursement of actual costs for the Capital Upgrades;
  - (b) Payment to District 2 in the amount of \$117,712.82 for inspection and other costs related to the Replacement Force Main;
  - (c) A Bill of Sale in the form attached as Exhibit C, which contains a complete and accurate description of the Pumping Plants and the Replacement Force Main;
  - (d) Signed and acknowledged deeds for Pumping Plants Nos. 2, 3, and 4 in the forms attached as Exhibits D-1, D-2, D-3, and D-4, respectively. These documents will convey either easements in or fee title to portions of real property upon which all or a portion of the Pumping Plants are located; and
  - (e) Signed and acknowledged easements for Pumping Plants Nos. 1, 2, and 3 and the Replacement Force Main in the forms attached as Exhibits E-1, E-2, and E-3 respectively. These documents will convey permanent easements in the real property upon which all or a portion of those pumping plants and the Replacement Force Main are located.
2. Conveyance of Pumping Plants. Except as otherwise required by this Agreement, Pomona will convey and deliver the Pumping Plants to District 21 in an "as-is" physical condition and with all faults. Pomona makes no representations or warranties of any kind, express or implied, concerning the condition of the Pumping Plants, including without limitation:
  - (a) The quality, nature, adequacy, physical condition and physical aspects of the Pumping Plants, including, but not limited to, sewage and utility systems, or the square footage within the Pumping Plants;
  - (b) The quality, nature, adequacy, and physical condition of soils, geology, and any groundwater;
  - (c) The existence, quality, nature, adequacy, and physical condition of the utilities serving the Pumping Plants;
  - (d) The development potential of the Pumping Plants, or the Pumping Plants' use, habitability, merchantability, or fitness, or the suitability, value, or adequacy of the Pumping Plants for any particular purpose.
  - (e) The compliance of the Pumping Plants with any applicable codes, laws, regulations, statutes, ordinances, covenants, conditions and restrictions of any governmental or quasi-governmental entity except the City of Pomona or of any other person or entity (including, without limitation, the Americans with Disabilities Act).

- (f) The quality of any labor and materials used in any improvements.
  - (g) The economics of the operation of the Pumping Plants.
3. District Acceptances. After the District receives Pomona's payments described in paragraph 1, then District 21 shall execute "Certificates of Acceptance" for the property interests described in paragraph 1 and record the conveyance documents. District 2 shall notify Pomona in writing when the Certificates of Acceptance have been executed.
  4. Termination of March 3, 1986 Agreement. The March 3, 1986 agreement described in recital B will terminate on the date of execution of the Certificates of Acceptance described in the preceding paragraph.
  5. Operation and Maintenance.
    - (a) Upon execution of the Certificates of Acceptance, District 21 shall operate and maintain the Pumping Plants and the Replacement Force Main at District 21's sole expense, except that Pomona shall pay any costs, assessments, or taxes arising out of or relating to any covenants, conditions, or restrictions (including any Disposition and Development Agreement) previously placed on Pumping Plant No. 3.
    - (b) The Districts do not assume any responsibility for the operation or maintenance of any of Pomona's force mains or any other part of Pomona's wastewater conveyance system or facilities except for the Pumping Plants and the Replacement Force Main. If any of Pomona's force mains associated with the Pumping Plants (other than the Replacement Force Main) fail, then Pomona shall be responsible for all response and repairs to those force mains. The Districts will use reasonable efforts to operate the Pumping Plants during Pomona's response and ultimate repair work in a manner that will minimize the potential for a sewage overflow from Pomona's influent sewers leading to the Pumping Plants.
  6. Designation as Local Sewerage Facilities. The Districts will designate the Pumping Plants and the Replacement Force Main as District 21 local sewerage facilities and not as joint outfall facilities under the Joint Outfall Agreement.
  7. Relocation: Upgrades.
    - (a) If either or both of the Districts are required to relocate any or all of the Pumping Plants or the Replacement Force Main, then Pomona shall pay the total cost of those relocations, including any land acquisition costs.
    - (b) If either or both of the Districts are required to upgrade or expand the Pumping Plants, Pomona shall pay the costs of acquiring any additional property needed for the upgrade or expansion, and shall compensate any affected property owners or lessees for any related costs, including diminution in value of property or the permanent loss of parking space.
  8. Replacement Force Main
    - (a) The Districts' Chief Engineer and General Manager ("Chief Engineer") has reviewed and approved Pomona's plans for the Replacement Force Main ("Plans").

- (b) Pomona has constructed the Replacement Force Main in strict accordance with the Plans and in compliance with the Districts' Amended Standard Specifications. The Replacement Force Main was placed into service as of October 10, 2011. The construction was approved by the Districts' Field Engineering Section and Pomona has filed a Notice of Completion in accordance with Section 3093 of the Civil Code recorded February 16, 2012 and attached as Exhibit F.
- (c) Pomona has submitted to the District one set of "as-built" Plans for the Replacement Force Main which the District has reviewed and approved.
- (d) Pomona shall convey or cause to be conveyed to District 21 without cost, free and clear of any claims, liens, or encumbrances, good and clear title to the Replacement Force Main and all appurtenances associated with the Replacement Force Main. Pomona shall also convey, or cause to be conveyed to District 21 without cost, an easement(s), in a form and content acceptable to the Chief Engineer, that will entitle District 21 to operate, maintain, and if necessary, rehabilitate or replace the Replacement Force Main.
- (e) District 21 will accept a tender of conveyance of title to the Replacement Force Main from Pomona, if the Chief Engineer determines to his or her reasonable satisfaction that:
  - i. Pomona has paid the District all costs of inspection as described in paragraph 8(g); and
  - ii. Pomona has fully performed and satisfied all other terms and conditions of this Agreement.
- (f) Pomona's Representations. Pomona hereby represents that:
  - i. Pomona has operated and maintained the Replacement Force Main for one year period, beginning October 10, 2011 and ending October 11, 2012, without any operational problems;
  - ii. There are no legal actions, pending or threatened, related to or concerning any of the Pumping Plants, the Capital Upgrades, or the Replacement Force Main; and
  - iii. There are no stop notices, liens, or other encumbrances against the Replacement Force Main, Pomona has fully complied with Section 3185 of the California Civil Code, and at least ninety calendar days have elapsed since the recording of a notice of completion for the Replacement Force Main;
- (g) Construction Inspections Costs. Pomona shall reimburse the Districts for the total cost of the Districts' construction inspection for the Replacement Force Main, as described in this paragraph, which is to be determined by a final accounting prepared by the Districts. Pomona shall reimburse the Districts for its costs of construction inspection in accordance with the following provisions:
  - i. The construction inspection costs will include currently effective percentage markups added to total salaries, wages, and equipment costs to cover overhead and administration.

- ii. Prior to full execution of this Agreement, the Districts shall furnish to Pomona an invoice that provides a final accounting of the actual construction inspection costs, including an itemization of names, number of hours spent on inspection, and hourly wage.
  - iii. Pomona shall pay the Districts all amounts due within 30 calendar days after full execution of this Agreement.
- (h) Acceptance. Upon acceptance and recordation of title to the Replacement Force Main, District 21 shall use, operate, and maintain the Replacement Force Main at its sole expense as part of the District 21 local sewerage facilities and not as joint outfall facilities under the Joint Outfall Agreement.
9. Indemnities.
- (a) District 21 shall indemnify, defend, and hold Pomona, its officers, agents, and employees, harmless from all claims, actions, demands, damages, costs, fines, liabilities, or losses arising out of the negligence or intentional misconduct of District 21 in the use, ownership, operation, or maintenance of the Pumping Plants and Replacement Force Main occurring after the date of execution of the Certificates of Acceptance referred to in paragraph 3 of this Agreement, except that the District will not indemnify Pomona for any costs, assessments, or taxes arising out of or relating to any covenants, conditions, or restrictions (including any Disposition and Development Agreement) previously placed on Pumping Plant No. 3.
  - (b) Pomona shall indemnify, defend, and hold the Districts, and the other County Sanitation Districts of Los Angeles County, their officers, agents, and employees (together "**District Parties**") harmless from all claims, actions, demands, damages, costs, fines, liabilities, or losses arising out of the negligence or intentional misconduct of Pomona in the use, ownership, operation, or maintenance of the Pumping Plants and the Replacement Force Main before the date of execution of the Certificate of Acceptance referred to in paragraph 3 of this Agreement. Pomona shall also indemnify, defend, and hold the District Parties harmless from costs, assessments, or taxes arising out of or relating to any covenants, conditions, or restrictions (including any Disposition and Development Agreement) previously placed on Pumping Plant No. 3. Pomona shall also indemnify, defend, and hold the District Parties harmless from all claims, demands, actions, liabilities, losses, costs, and damages arising from the design or construction of the Replacement Force Main, including but not limited to trenching, backfill work above the pipe zone, and pavement work. This indemnity provision survives the termination of this Agreement and will continue to be enforceable so long as the Pumping Plants or the Replacement Force Main are in existence and owned and operated by the District 21 or its assignee.
10. No Capacity Allocation. This Agreement does not provide Pomona or others any right to sewer capacity in the Districts' sewerage system. This Agreement does not constitute a waiver or reduction of any fee or charge that would otherwise be due to the Districts or either of them. The permission to discharge to the Districts' system will be available only upon payment and acceptance of the Districts' connection fees and compliance with all the rules and regulations in effect at the time of connection fee acceptance.

11. Districts' Delegation of Authority.
  - (a) The Chief Engineer is delegated the authority to act on behalf of the Districts in carrying out the terms of this Agreement. The Chief Engineer, or his or her designee, may accept the Replacement Force Main and required property rights, as contemplated in this Agreement, and make other determinations and approvals on behalf of District 21 to fulfill all responsibilities of District 21 under this Agreement.
  - (b) The Secretary of the Districts' boards of directors may accept all property rights granted pursuant to the terms of this Agreement.
12. Further Actions. Each party shall execute and deliver any instruments and perform any actions that may be required, or reasonably requested by another party, in order to give full effect to this Agreement.
13. Integration. This Agreement contains the entire agreement between the parties concerning the rights and obligations assumed in this contract. Any oral representation or modification shall be of no force or effect. Any modifications or amendments of this Agreement must be made in writing executed by both parties.
14. Interpretation. Each party has participated in negotiating and drafting this Agreement, so if any ambiguity or a question of intent or interpretation arises, this Agreement is to be construed as if the parties had drafted it jointly, as opposed to being construed against a party because it was responsible for drafting one or more provisions of this Agreement.

The parties are signing this Agreement as of the date stated in the introductory clause.

CITY OF POMONA, a municipal corporation

By: Linda Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:  
City Attorney

By: Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman,

(Must be notarized)

[signatures continue on following page]



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles

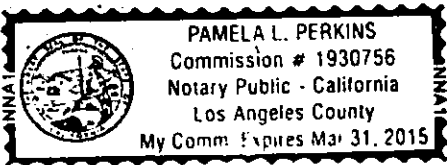
On November 6, 2012 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal  
 Signature Pamela L. Perkins  
Signature of Notary Public



Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Takeover Agreement between the City of Pomona and County Sanitation Districts Nos. 2 and 21 of Los Angeles County

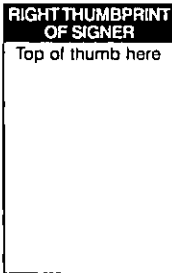
Document Date: \_\_\_\_\_ Number of Pages: 9

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry

- Individual
- Corporate Officer — Title(s): City Manager
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



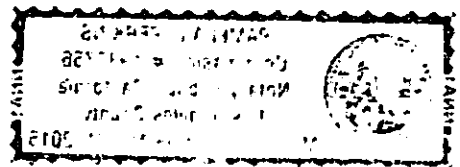
Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_



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Small, faint text or markings located in the lower-right section of the page.

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COUNTY SANITATION DISTRICT NO. 2  
OF LOS ANGELES COUNTY

By: *Carroll Hementa*  
Chairperson  
DEC 18 2012

ATTEST:

*Kimberly S. Compton*  
Secretary

APPROVED AS TO FORM:  
Lewis Brisbois Bisgaard & Smith, LLP

By: *Daniel W. Hyde*  
District Counsel

COUNTY SANITATION DISTRICT NO. 21  
OF LOS ANGELES COUNTY

By: *Carroll Hementa*  
Chairperson  
DEC 18 2012

ATTEST:

*Kimberly S. Compton*  
Secretary

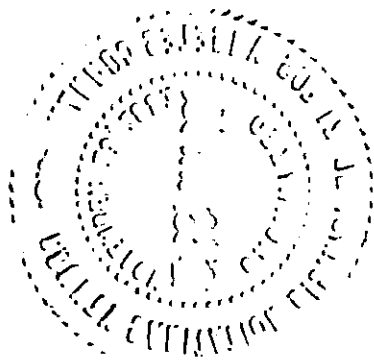
APPROVED AS TO FORM:  
Lewis Brisbois Bisgaard & Smith, LLP

By: *Daniel W. Hyde*  
District Counsel

(Must be notarized)



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**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Los Angeles

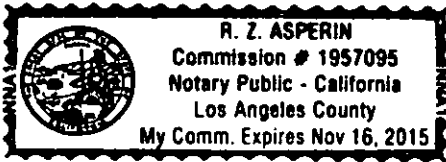
On December 18, 2012 before me, R. Z. Asperin, Notary Public

personally appeared David W. Armenta and Curtis W. Morris

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Place Notary Seal Above

Signature R. Z. Asperin  
Signature of Notary Public

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

**Description of Attached Document**

Title or Type of Document: Takeover Agreement (Pumping Plants and Force Main)

Document Date: December 18, 2012 Number of Pages: Nine (9)

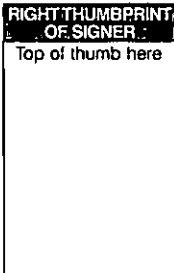
Signer(s) Other Than Named Above: Linda C. Lowry, City Manager - City of Pomona

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: David W. Armenta

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: Chairperson, Board of Directors

Signer Is Representing: \_\_\_\_\_  
County Sanitation District No. 2  
of Los Angeles County



Signer's Name: Curtis W. Morris

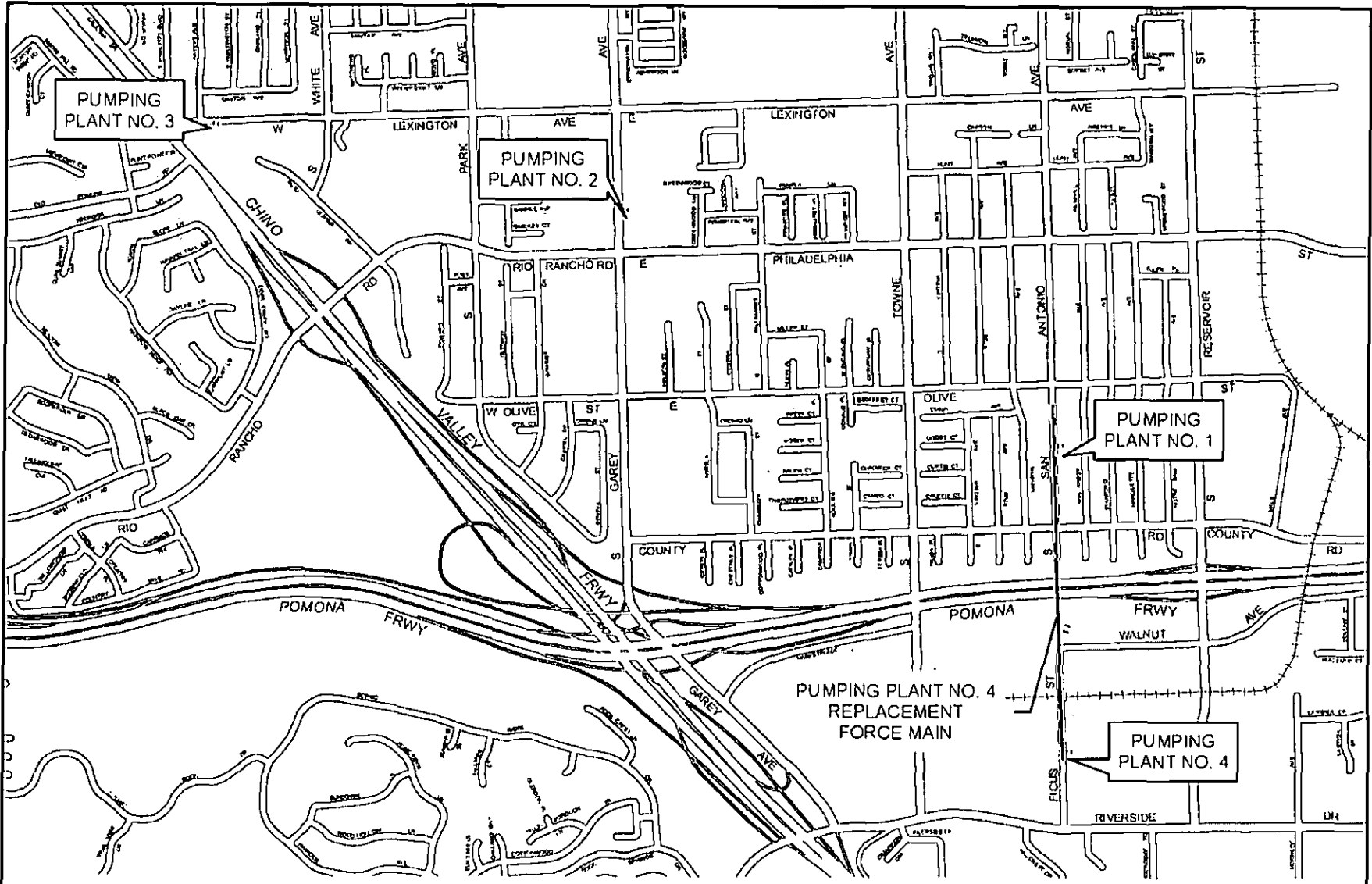
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: Chairperson, Board of Directors

Signer Is Representing: \_\_\_\_\_  
County Sanitation District No. 21  
of Los Angeles County



My Comm Expires Nov 18, 2015  
R. J. ASPERIN  
Commission # 1957095  
Notary Public - California  
Los Angeles County





LOCATION OF CITY OF POMONA  
 PUMPING PLANTS NOS. 1 - 4 AND  
 PUMPING PLANT NO. 4 REPLACEMENT FORCE MAIN

EXHIBIT "A"

NO SCALE

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 The information contained herein is the  
 proprietary property of the following owners  
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 owner(s).





EXHIBIT B

SUMMARY OF COSTS OF CAPITAL UPGRADES  
FOR POMONA PUMPING PLANTS NOS. 1 - 4

| PUMPING PLANT NO. | CAPITAL UPGRADE DESCRIPTION  | ACTUAL COST |
|-------------------|--|-------------|
| 1                 | Telemetry & control system   | \$90,000    |
| 2                 | Telemetry & controls system and to procure & install a standby generator | \$169,269   |
| 3                 | Telemetry and control system   | \$95,420    |
| 4                 | Telemetry & control system and switchboard replacement                   | \$202,115   |

Total Costs = \$ 556,804

24



RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS  
OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED, MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
PROPERTY MANAGEMENT SECTION

## BILL OF SALE


CITY OF POMONA, a municipal corporation, hereby grants to COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under the provisions of the County Sanitation District Act, Health & Safety Code §4700 et seq., the following described property:

1. Sewer Pumping Plant No. 1, located at 2394 S. San Antonio Avenue, in the sidewalk area, mid-block of a residential area between Olive Street and County Road, which was constructed in 1953. It is a circular below-grade installation with three levels. The pumping plant has a wet well/dry pit with two variable speed drive ABS Pumps, which are driven by 25 HP electric motors rated at 1500 gpm each. The pumping plant is equipped with a stationary 60 kW Onan modified Ford V8 natural gas generator.
2. Sewer Pumping Plant No. 2, located at 2070 S. Garey Avenue, which was constructed in 1995 in a non-residential area. It is a rectangular below-grade installation with two levels. The pumping plant has a wet well/dry pit equipped with two variable speed drive ABS Pumps, which are driven by 75 HP electric motors rated at 2,600 gpm each. The pumping plant is equipped with a stationary 200 kW Caterpillar, Model D200P3, emergency generator.
3. Sewer Pumping Plant No. 3, located at 1026 W. Lexington Avenue, which was constructed in 2002 in a residential area. It is a rectangular below-grade installation with two levels. The pumping plant has a wet well/dry pit equipped with three variable speed drive KSB Pumps, which are driven by 75 HP electric motors rated at 3,000 gpm each. An aboveground structure houses a stationary 250 kW Onan/Cummins electric diesel generator.
4. Sewer Pumping Plant No. 4 located at 2800 Ficus Street, which was constructed in 1967 in a non-residential area. It is a circular below-grade installation with three levels. The pumping plant has a wet well/dry pit equipped with two fixed speed drive ITT Allis-Chalmers Pumps, which are driven by 25 HP electric motors rated at 500 gpm each. The pumping plant has an emergency standby pump which is driven by a 61 HP natural gas engine rated at 1,000 gpm.
5. Ficus Street Sewer Force Main Replacement (for Sewer Pumping Plant No. 4), consisting of approximately 6,600 linear feet of 8-inch diameter high density polyethylene pipe, approximately 550 linear feet of 24-inch diameter steel casing, and appurtenant structures beginning approximately 600 feet north of the intersection of Riverside Drive and Ficus Street, then northerly in Ficus Street to the intersection with Walnut Avenue, then northerly crossing private property and the Pomona Freeway to San Antonio Avenue, then northerly in San Antonio Avenue to approximately 200 feet south of Olive Street.

CITY OF POMONA is signing this Bill of Sale on 1/8/, 2013.

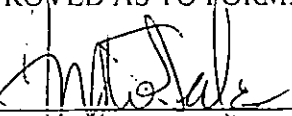
ATTEST:

CITY OF POMONA, a municipal corporation

By:   
Marie Michel Macías, City Clerk

By:   
Linda Lowry, City Manager

APPROVED AS TO FORM:

By:   
Arnold Álvarez-Glasman, City Attorney

(Signatures are to be notarized)

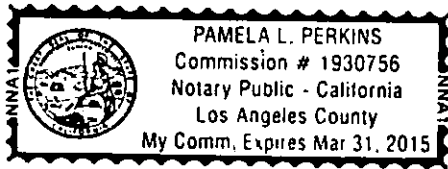
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/hers/their authorized capacity(ies), and that by his/hers/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Handwritten Signature]  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Bill of Sale - Pomona Pumping Plants Nos. 1-4 and Force Main for Pumping Plant No. 4  
 Document Date: \_\_\_\_\_ Number of Pages: 2

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager  Corporate Officer — Title(s): \_\_\_\_\_

Individual  Partner —  Limited  General  Attorney in Fact  Trustee  Guardian or Conservator  Other: \_\_\_\_\_

Attorney in Fact  Trustee  Guardian or Conservator  Other: \_\_\_\_\_

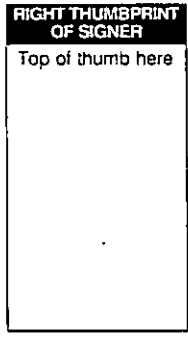
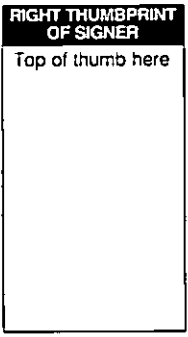
Trustee  Guardian or Conservator  Other: \_\_\_\_\_

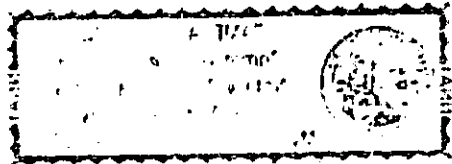
Guardian or Conservator  Other: \_\_\_\_\_

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_





RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

## SEWER EASEMENT

The CITY OF POMONA, a municipal corporation ("Grantor"), hereby grants to COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under provisions of the County Sanitation District Act, California Health and Safety Code Section 4700 *et seq* ("District") and to its successors and assigns, a perpetual easement for pumping plant and sewer purposes, and the right to lay, construct, maintain, reconstruct, use and operate pumping plant and appurtenances in, under, over, through and across that certain real property situated in City of Pomona, County of Los Angeles, State of California, described in attached Exhibit A and depicted in attached Exhibit B (the "Easement Area")

Together with the right to enter upon and to pass and repass over and along said Easement Area and to deposit tools, implements and other materials thereon by District, its officers, agents and employees, and by persons under contract to construct said pumping plant and appurtenances, and their employees, whenever and wherever necessary for the aforesaid purposes, and the right to enter upon and use such land adjoining said Easement Area as is necessary for ingress and egress purposes for construction, rehabilitation, operation, and maintenance of said pumping plant and appurtenances.

The Grantor is signing this instrument on January 8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:

Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman, City Attorney

(Signatures are to be notarized)

Easement No. 3336

Parcel No. N/A

Name of Sewer: Pomona Pumping Plant No. 1

## EXHIBIT A

Pomona Pumping Plant No. 1  
City of Pomona

That portion of San Antonio Avenue 100 feet wide (formerly known as Artesia Boulevard) as shown on Tract No. 17789 filed in Book 446, pages 45 and 46 of Maps in the office of the Recorder of the County of Los Angeles, situated in the City of Pomona, County of Los Angeles, State of California, described as follows:

Beginning at a point on the easterly line of San Antonio Avenue as shown said map, distant South  $01^{\circ}43'55''$  East 1.00 from the northwest corner of Lot 1 of said Tract No. 17789; thence (L1) South  $01^{\circ}43'55''$  East 27.00 feet along said east line; thence leaving said easterly line (L2) South  $88^{\circ}16'05''$  West 22.00 feet; thence (L3) North  $01^{\circ}43'55''$  West 27.00 feet; thence (L4) North  $88^{\circ}16'05''$  East 22.00 feet to the POINT OF BEGINNING.

Containing 594±SqFt



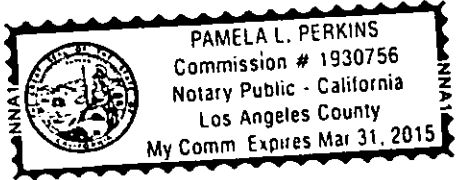
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~(s)~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity~~(ies)~~, and that by ~~his/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Pamela L. Perkins*  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Sewer Easement - Pomona Pumping Plant No. 1

Document Date: \_\_\_\_\_ Number of Pages: 3

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager

Corporate Officer — Title(s): \_\_\_\_\_

Individual

Individual

Partner —  Limited  General

Partner —  Limited  General

Attorney in Fact

Attorney in Fact

Trustee

Trustee

Guardian or Conservator

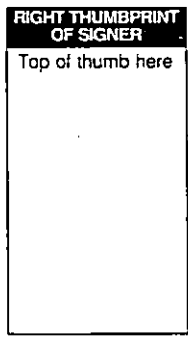
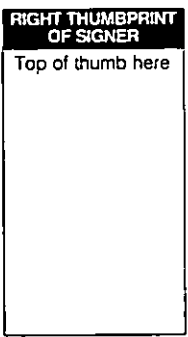
Guardian or Conservator

Other: \_\_\_\_\_

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



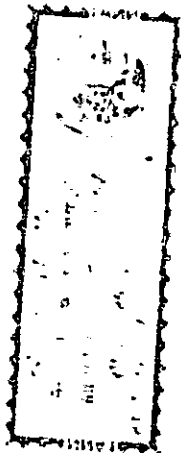
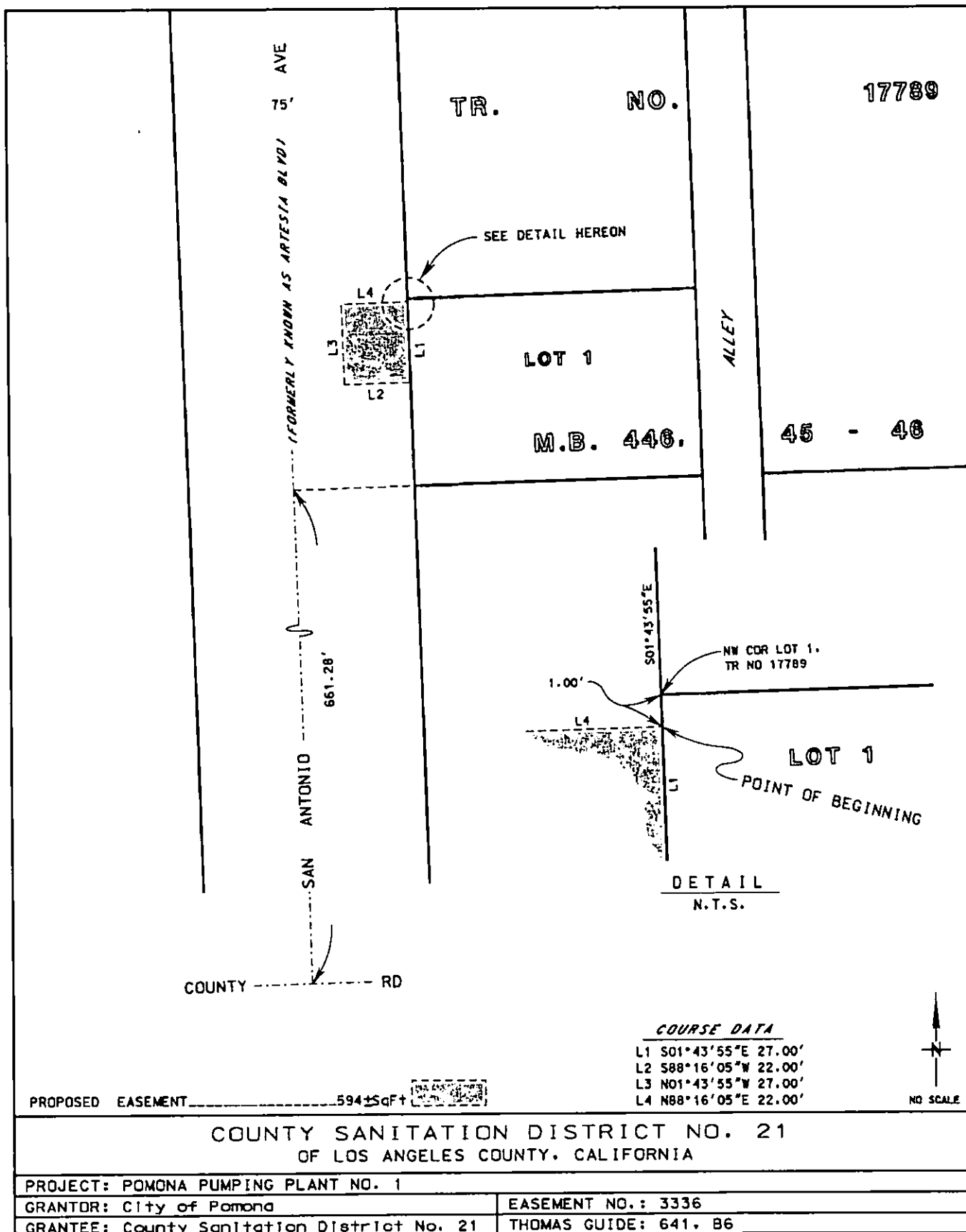


EXHIBIT B



RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

## SEWER EASEMENT

The CITY OF POMONA, a municipal corporation ("Grantor"), hereby grants to COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under provisions of the County Sanitation District Act, California Health and Safety Code Section 4700 *et seq* ("District") and to its successors and assigns, a perpetual easement for pumping plant and sewer purposes, and the right to lay, construct, maintain, reconstruct, use and operate pumping plant and appurtenances in, under, over, through and across that certain real property situated in City of Pomona, County of Los Angeles, State of California, described in attached Exhibit A and depicted in attached Exhibit B (the "Easement Area")

Together with the right to enter upon and to pass and repass over and along said Easement Area and to deposit tools, implements and other materials thereon by District, its officers, agents and employees, and by persons under contract to construct said pumping plant and appurtenances, and their employees, whenever and wherever necessary for the aforesaid purposes, and the right to enter upon and use such land adjoining said Easement Area as is necessary for ingress and egress purposes for construction, rehabilitation, operation, and maintenance of said pumping plant and appurtenances.

The Grantor is signing this instrument on 1-8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda C Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:

Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman, City Attorney

(Signatures are to be notarized)

Easement No. 3337 Parcel No. N/A  
Name of Sewer: Pomona Pumping Plant No. 2

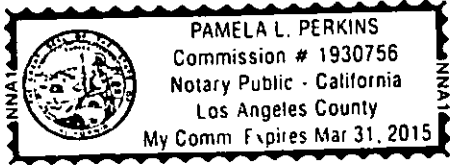
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/her/~~their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Pamela L. Perkins*  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Sewer Easement - Pomona Pumping Plant No. 2

Document Date: \_\_\_\_\_ Number of Pages: 3

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager  Corporate Officer — Title(s): \_\_\_\_\_

- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

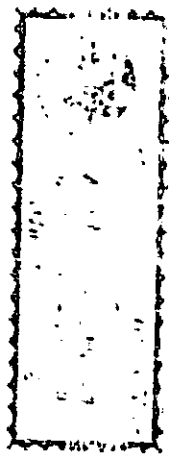
| RIGHT THUMBPRINT<br>OF SIGNER |
|-------------------------------|
| Top of thumb here             |
|                               |

- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

| RIGHT THUMBPRINT<br>OF SIGNER |
|-------------------------------|
| Top of thumb here             |
|                               |

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



## EXHIBIT A

Pomona Pumping Plant No. 2  
City of Pomona

That portion of Garey Avenue (100 feet wide) as shown on Parcel Map No. 23396, filed in Book 260, pages 3 and 4 of Parcel Maps in the office of the Recorder of the County of Los Angeles, situated in the City of Pomona, County of Los Angeles, State of California, described as follows:

Beginning at a point on the east line of Garey Avenue as shown on said parcel map, said east line also being the west line of Parcel 1 of said parcel map, said point being distant North  $01^{\circ}32'38''$  West 87.00 feet from the most westerly southwest corner of said parcel 1; thence leaving said east line of Garey Avenue (L1) South  $88^{\circ}27'22''$  West 10.00 feet; thence (L2) North  $01^{\circ}32'38''$  West 35.00 feet; thence (L3) South  $88^{\circ}27'22''$  East 10.00 feet to said east line of Garey Avenue; thence (L4) South  $01^{\circ}32'38''$  East 35.00 feet along said east line to the POINT OF BEGINNING.

Containing  $350\pm$ SqFt

EXHIBIT B

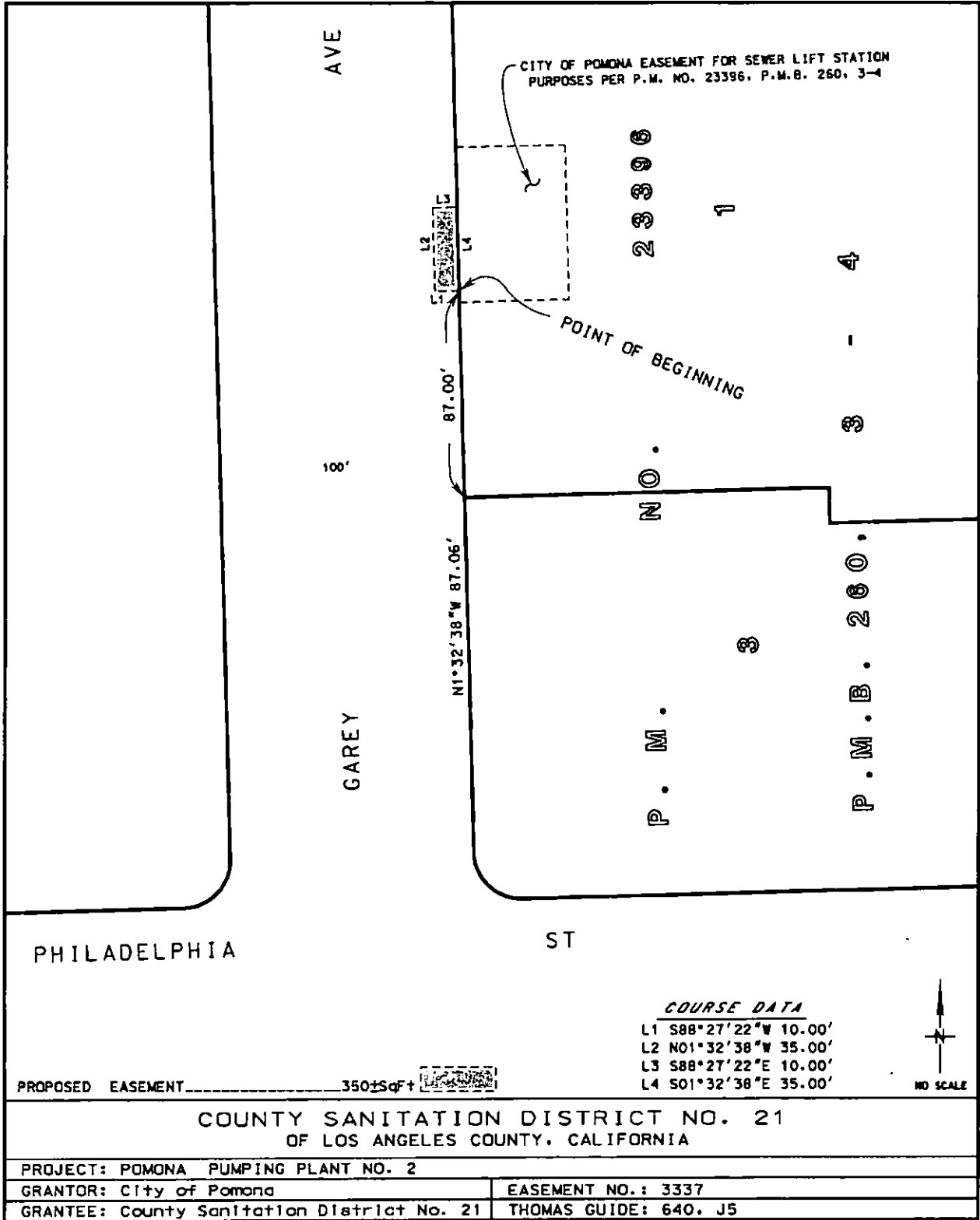


Exhibit "B"



RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

## SEWER EASEMENT

The CITY OF POMONA, a municipal corporation ("Grantor"), hereby grants to COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under provisions of the County Sanitation District Act, California Health and Safety Code Section 4700 *et seq.* ("District") and to its successors and assigns, a perpetual easement for pumping plant and sewer purposes, and the right to lay, construct, maintain, reconstruct, use and operate pumping plant and appurtenances in, under, over, through and across that certain real property situated in City of Pomona, County of Los Angeles, State of California, described in attached Exhibit A and depicted in attached Exhibit B (the "Easement Area")

Together with the right to enter upon and to pass and repass over and along said Easement Area and to deposit tools, implements and other materials thereon by District, its officers, agents and employees, and by persons under contract to construct said pumping plant and appurtenances, and their employees, whenever and wherever necessary for the aforesaid purposes, and the right to enter upon and use such land adjoining said Easement Area as is necessary for ingress and egress purposes for construction, rehabilitation, operation, and maintenance of said pumping plant and appurtenances.

The Grantor is signing this instrument on 1-8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda C. Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:

Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman, City Attorney

(Signatures are to be notarized)

Easement No. 3339 Parcel No. N/A

Name of Sewer: Pomona Pumping Plant No. 3

## EXHIBIT A

Pomona Pumping Plant No. 3  
City of Pomona

That portion of Lexington Avenue as shown on Parcel Map No. 66582, filed in Book 351, pages 59 through 62 inclusive of Parcel Maps in the office of the Recorder of the County of Los Angeles situated in the City of Pomona, County of Los Angeles, State of California, described as follows:

Beginning at a point on the southerly line of said Lexington Ave and the northerly line of Parcel 2 of said Parcel Map, said point being distant North 88°01'28" East 409.93 feet from the northwest corner of said Parcel 2; thence leaving said southerly line (L1) North 01°58'32" West 14.00 feet; thence (L2) North 88°01'28" East 45.00 feet; thence (L3) South 01°58'32" East 14.00 feet to said southerly line; thence (L4) South 88°01'28" West 45.00 feet along said southerly line to the POINT OF BEGINNING.

Containing 630±SqFt

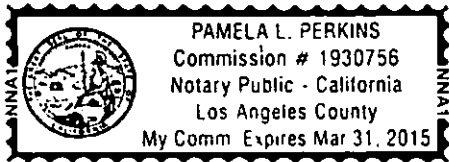
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity~~(ies)~~, and that by ~~his/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Pamela L. Perkins*  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Sewer Easement - Pomona Pumping Plant No. 3

Document Date: \_\_\_\_\_ Number of Pages: 3

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager  Corporate Officer — Title(s): \_\_\_\_\_

- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

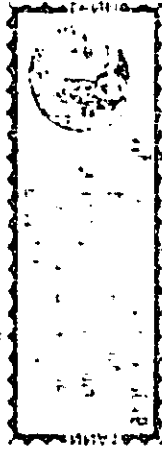
**RIGHT THUMBPRINT OF SIGNER**  
 Top of thumb here

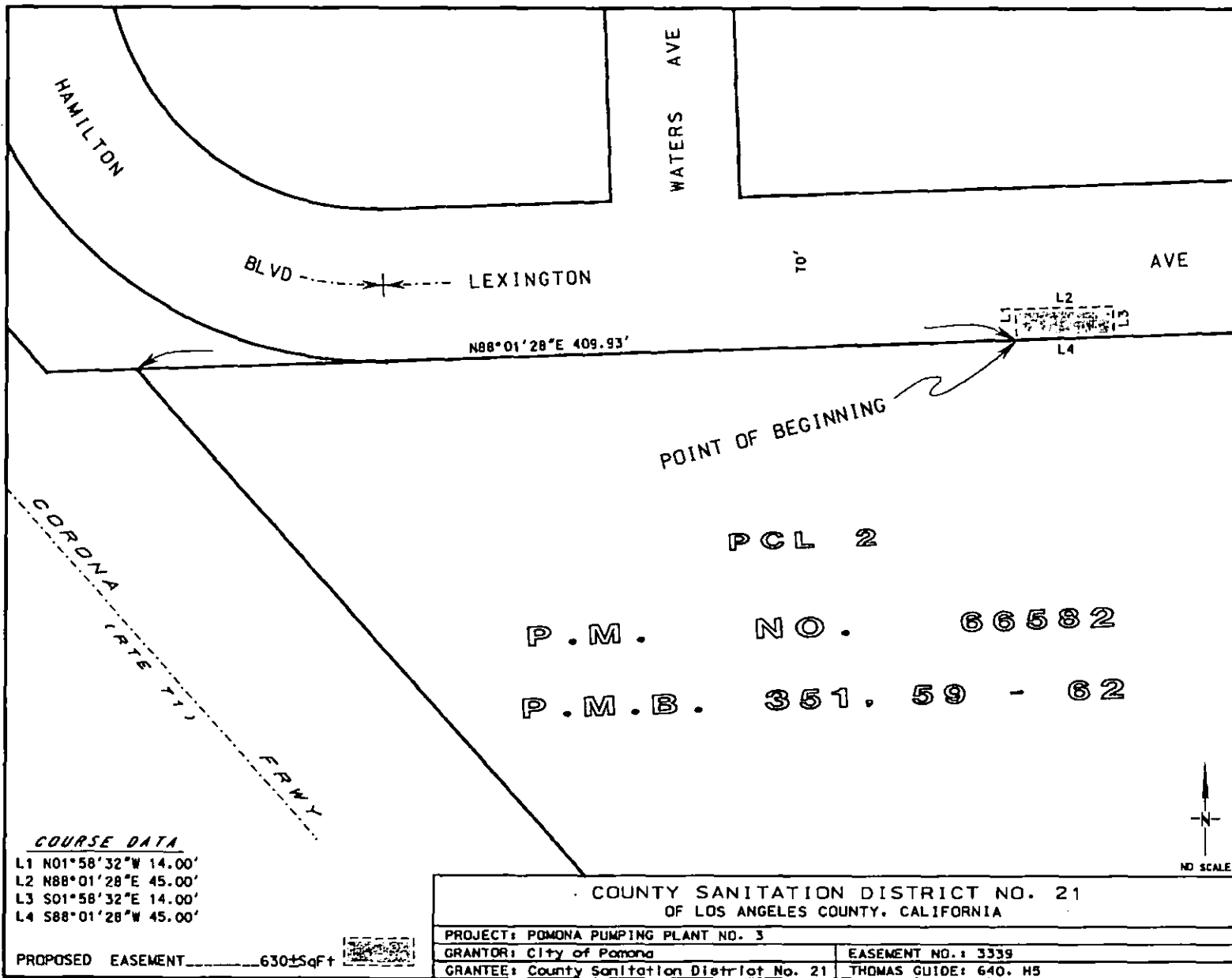
- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**  
 Top of thumb here

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_





**COURSE DATA**  
 L1 N01°58'32"W 14.00'  
 L2 N88°01'28"E 45.00'  
 L3 S01°58'32"E 14.00'  
 L4 S88°01'28"W 45.00'

PROPOSED EASEMENT 630±Sqft

|  |                       |
|--|-----------------------|
| COUNTY SANITATION DISTRICT NO. 21<br>OF LOS ANGELES COUNTY, CALIFORNIA |                       |
| PROJECT: POMONA PUMPING PLANT NO. 3                                    |                       |
| GRANTOR: City of Pomona  | EASEMENT NO.: 3339    |
| GRANTEE: County Sanitation District No. 21                             | THOMAS GUIDE: 640, H5 |

Exhibit "B"

EXHIBIT B

RECORDED REQUESTED BY  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMANHILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## QUITCLAIM DEED

CITY OF POMONA, a municipal corporation, does hereby remise, release, and forever quitclaim to the COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under the provisions of the County Sanitation District Act, Health & Safety Code §4700 et seq., all its rights, title, and interest acquired under and by virtue of that certain easement for sewer lift station purposes dedicated to the City of Pomona, as shown per Parcel Map No. 23396, recorded in Book 260 at Page 3 of Maps in the office of the Recorder of the County of Los Angeles, State of California as Instrument No. 93-1413147 on July 22, 1993.

CITY OF POMONA is signing this Quitclaim Deed on 1-8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macías  
Marie Michel Macías, City Clerk

APPROVED AS TO FORM:

Arnold Álvarez-Glasman  
Arnold Álvarez-Glasman, City Attorney

(Signatures are to be notarized)

Easement No. 3345

Project: Pomona Pumping Plant No. 2

Parcel No. 8331-002-057

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

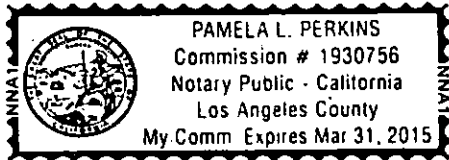
State of California

County of Los Angeles

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~are~~ subscribed to the within instrument and acknowledged to me that he~~/she/they~~ executed the same in his~~/her/their~~ authorized capacity~~(ies)~~, and that by his~~/her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Pamela L. Perkins

Signature of Notary Public

Place Notary Seal and/or Stamp Above

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Description of Attached Document

Title or Type of Document: Quit Claim Deed - Pomona Pumping Plant No. 2

Document Date: \_\_\_\_\_ Number of Pages: 1

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_ Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): \_\_\_\_\_  Corporate Officer — Title(s): \_\_\_\_\_

Individual  Individual

Partner —  Limited  General  Partner —  Limited  General

Attorney in Fact  Attorney in Fact

Trustee  Trustee

Guardian or Conservator  Guardian or Conservator

Other: \_\_\_\_\_  Other: \_\_\_\_\_

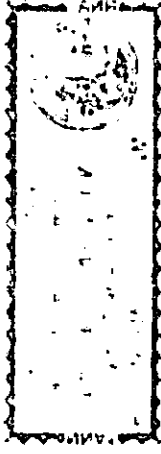
Signer Is Representing: \_\_\_\_\_ Signer Is Representing: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**

Top of thumb here

**RIGHT THUMBPRINT OF SIGNER**

Top of thumb here





RECORDED REQUESTED BY  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMANHILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## GRANT DEED

CITY OF POMONA, a municipal corporation, hereby grants to the COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under the provisions of the County Sanitation District Act, Health & Safety Code §4700 et seq., all rights, title, and interest acquired under and by virtue of that certain GRANT DEED dated April 20, 1999, recorded as Instrument No. 99-0876665 on May 14, 1999 in the office of the Recorder of the County of Los Angeles, State of California, and attached as Exhibit 1.

Pursuant to a covenant of that GRANT DEED, the District hereby covenants by and for itself and its assigns and all persons claiming under or through them, that there shall be no discrimination against or segregation of any person or group of persons on account of race, color, creed, religion, sex, marital status, national origin or ancestry in the sale, lease, sublease, transfer, use, occupancy, tenure or enjoyment of the land herein conveyed, nor shall the District or any person claiming under it establish or permit any such practice or practices of discrimination or segregation with reference to the selection, location, number, use or occupancy of tenants, lessees, subtenants, sublessees or vendees in the land herein conveyed. The forgoing covenants shall run with the land.

CITY OF POMONA is signing this Grant Deed on 1-8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda C Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:

Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman, City Attorney

(Signatures are to be notarized)

Grant Deed No. 1207

Project: Pomona Pumping Plant No. 3

Parcel No. 8344-024-936

EXHIBIT 1

99 0876665

RECORDED/FILED IN OFFICIAL RECORDS  
RECORDER'S OFFICE  
LOS ANGELES COUNTY  
CALIFORNIA  
MAY 14 1999 AT 8 A.M.

SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE

TITLE(S)

*Deed*

| FEE CODE | N/A       | N/A        | 0    | 20       | 0           | 10     | 04         | 10        |
|----------|-----------|------------|------|----------|-------------|--------|------------|-----------|
| REC. FEE | NO. PAGES | NO. TITLES | PCOR | D.A. FEE | SURVEY MON. | NOTIF. | INVOL LIEN | NON CONF. |

7

EXAMINER'S INT.

Assessor's Identification Number (AIN)  
To Be Completed By Examiner Or Title Company In Black Ink

8344-024-900

Number of Parcels Shown

004



Person Number

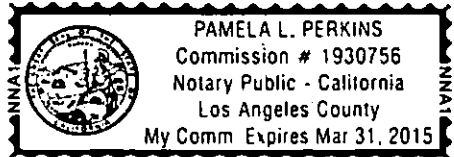
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
 County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/~~her~~/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/~~her~~/~~their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Pamela L. Perkins*  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Grant Deed - Pomona Pumping Plant No. 3

Document Date: \_\_\_\_\_ Number of Pages: 8

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager  Corporate Officer — Title(s): \_\_\_\_\_

Individual  Partner —  Limited  General  Attorney in Fact  Trustee  Guardian or Conservator  Other: \_\_\_\_\_

Partner —  Limited  General  Attorney in Fact  Trustee  Guardian or Conservator  Other: \_\_\_\_\_

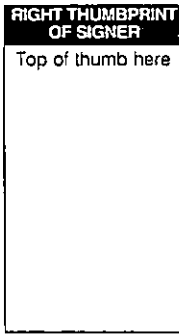
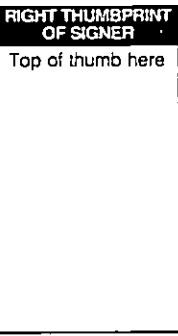
Trustee  Guardian or Conservator  Other: \_\_\_\_\_

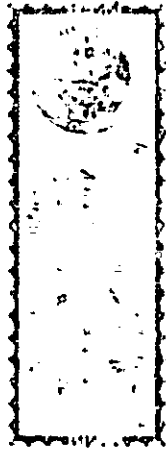
Guardian or Conservator  Other: \_\_\_\_\_

Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_





99 0876665

7

COMMONWEALTH LAND TITLE CO.

RECORDING REQUESTED BY AND  
WHEN RECORDED RETURN TO:

CITY OF POMONA - CITY CLERK  
505 South Garey Avenue, Box 660  
Pomona, CA 91769

MAIL TAX STATEMENTS TO:

CITY OF POMONA - FINANCE DEPARTMENT  
505 South Garey Avenue, Box 660  
Pomona, CA 91769

FREE B

6

(SPACE ABOVE FOR RECORDER'S USE ONLY)

No recording fee required;  
this document exempt from fee  
pursuant to Section 6103 of  
the California Government Code

GRANT DEED

For a valuable consideration, receipt of which is hereby acknowledged.

THE REDEVELOPMENT AGENCY OF THE CITY OF POMONA, a public body, corporate and politic ("Grantor"), hereby grants to THE PUBLIC WORKS DEPARTMENT OF THE CITY OF POMONA, a public body, corporate and politic ("Grantee"), that certain real property described in Exhibit "A" attached hereto and incorporated herein by this reference ("Property").

1. The Grantee covenants and agrees to use, occupy and maintain the Property only for the construction and operation of uses permitted by the Redevelopment Plan, the applicable zoning of the City of Pomona, and related on- and off-site improvements, as set forth in the certain Disposition and Development Agreement, dated 20 APRIL, 1999 ("DDA").
2. The Grantee covenants and agrees to use, operate and maintain the Property only for the construction and operation of uses permitted by the Developer's Improvements as set forth in the DDA and the CC&Rs on record affecting the property.
3. The Grantee covenants by and for itself and any successors in interest that there shall be no discrimination against or segregation of any person or group of persons on account of

8344-024-910,910,918,928,929,931

1904525-27

race, color, creed, religion, sex, marital status, national origin or ancestry in the sale, lease, sublease, transfer, use, occupancy, tenure or enjoyment of the Property, nor shall the Grantee itself or any person claiming under or through it establish or permit any such practice or practices of discrimination or segregation with reference to the selection, location, number, use of occupancy of tenants, lessees, subtenants, sublessees or vendees in the Property.

All deeds, leases or contracts made relative to the Property, the improvements thereon or any part thereof, shall contain or be subject to substantially the following nondiscrimination clauses:

a. In deeds: "The Grantee herein covenants by and for himself or herself, his or her heirs, executors, administrators, and assigns and all persons claiming under or through them, that there shall be no discrimination against or segregation of any person or group of persons on account of race, color, creed, religion, sex, marital status, national origin or ancestry in the sale, lease, sublease, transfer, use, occupancy, tenure or enjoyment of the land herein conveyed, nor shall the Grantee himself or herself, or any person claiming under or through him or her, establish or permit any such practice or practices of discrimination or segregation with reference to the selection, location, number, use or occupancy of tenants, lessees, subtenants, sublessees or vendees in the land herein conveyed. The foregoing covenants shall run with the land."

b. In leases: "The Lessee herein covenants by and for himself or herself, his or her heirs, executors, administrators and assigns, and all persons claiming under or through him or her, and this lease made and accepted upon and subject to the following conditions:

That there shall be no discrimination against or segregation of any person or group of persons on account of race, color, creed, religion, sex, marital status, national origin or ancestry in the leasing, subleasing, transferring, use of occupancy, tenure or enjoyments of the land herein leased, nor shall the lessee himself or herself, or any person claiming under or through him or her, establish or permit any such practice or practices if discrimination or segregation with reference to the selection, location, number, use of occupancy of tenants, lessees, sublessees, subtenants or vendees in the land herein leased."

c. In contracts: "There shall be no discrimination against or segregation of any person or group of persons on account of race, color, creed, religion, sex, marital status, national origin or ancestry in the sale, lease, sublease, transfer, use, occupancy, tenure or enjoyment of the land, nor shall the transferee himself or herself, or any person claiming under or through him or her, establish or permit any such practice or practices of discrimination or segregation with reference to the selection location, number, use or occupancy of tenants, lessees, sublessees, subtenants or vendees in the

land."

4. The Grantee shall be permitted to contest the validity or amounts of any tax assessment, encumbrance or lien, and shall not be limited in the remedies available in respect thereto.

5. No violation or breach of the covenants, conditions, restrictions, provisions or limitation contained in this Grant Deed shall defeat or render invalid or in any way impair the lien or charge of any mortgage, deed of trust or other financing or security instrument permitted by the DDA; provided, however, that any successor of Grantee to the Property shall be bound by such remaining covenants, conditions, restrictions, limitations and provisions, whether such successor's title was acquired by foreclosure, deed in lieu of foreclosure, trustee's sale or otherwise.

6. The covenants contained in this Grant Deed shall remain in effect until the earlier of: (a) the expiration of thirty (30) years from the issuance of a finalized Building Permit for the Property, or, (b) January 31, 2036, except the covenants contained in Paragraph 2, which shall remain in effect in perpetuity; provided, however, that if the state law requiring such covenants changes such that such covenants are not required to remain in effect in perpetuity, such covenants shall terminate at such earlier date as may be permitted by state law.

7. The covenants in Paragraphs 2, 3, 4 and 5 of this Grant Deed shall be binding for the benefit of the Grantor, its successors and assigns, the City of Pomona and any successor in interest to said parties. Such covenants shall run in favor of the Grantor and such aforementioned parties for the entire period during which such covenants shall be in force and effect, without regard to whether the Grantor is or remains an owner of any land or interest therein to which such covenants relate. The Grantor and such aforementioned parties, in the event of any breach of any such covenants, shall have the right to exercise all of the rights and remedies, and to maintain any actions at law or suits in equity or contained in this Grant Deed shall be for the benefit of and shall be enforceable only by the Grantor, its successors and such aforementioned parties.

8. In the event of any express conflict between this Grant Deed or the DDA, the provisions of this Grant Deed shall control.

9. No amendment to the Redevelopment Plan, which changes the use or development permitted on the Property or changes the restrictions or controls that apply to the Property or otherwise affects the Property, shall become effective as to the Property without the written consent of the Grantee.

10. The Covenants and Conditions of this Grant Deed shall be deemed to be covenants running with the land and shall bind future purchasers, encumbrances and transferees.

Executed on 22 APRIL 1999, in POMONA, California.

99 0876665

5

REDEVELOPMENT AGENCY OF  
THE CITY OF POMONA

By: Severo Esquivel  
Executive Director

ATTEST:

Elizabeth Villaral  
Agency Secretary

APPROVED AS TO FORM:

Stanley Alonzo - Jr  
Agency Counsel

STATE OF CALIFORNIA )  
  ) ss.  
COUNTY OF Los Angeles )

On this 20<sup>th</sup> day of April, 1999, before me, Nancy Lytle Notary Public, personally appeared Severo Esquivel, personally known to me ~~(or proved to me on the basis of satisfactory evidence)~~ to be the person(x) whose name is/~~are~~ subscribed to this instrument, and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacities, and that by his/~~her/their~~ signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Nancy Lytle  
Notary Public in and for said  
County and State



GRANTEE'S ACCEPTANCE OF CONDITIONS AND COVENANTS

The provisions of this Grant Deed are hereby approved and accepted.

PUBLIC WORKS DEPARTMENT

By: [Signature]

Its: Public Works Director/City Engineer

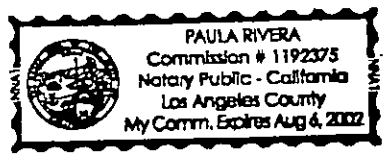
Approved as to Form:

[Signature]  
City Attorney

STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF LOS ANGELES )

On this 28<sup>th</sup> day of April, 1999, before me, Paula Rivera Notary Public, personally appeared M. VICTOR ROLLINGER, personally known to me (or proved to me on the basis of satisfactory evidence to be the person(s) whose names is/are subscribed to this instrument, and acknowledged to me that he/she/they executed the same in his/het/their authorized capacities, and that by his/het/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



[Signature]  
Notary Public in and for said  
County and State

7

**EXHIBIT A**  
**PROPERTY ACQUISITION TO THE CITY OF POMONA**  
**SEWAGE PUMP STATION NO. 3**

LEGAL DESCRIPTION

That portion of Parcel 8 of Parcel Map No. 17353 in the City of Pomona, County of Los Angeles, State of California, as filed in Book 189, Pages 63 through 67 of Parcel Maps, in the office of the County Recorder of said County, described as follows:

Beginning at the northwest corner of said Parcel 8, thence N88° 01' 28"E along the northerly line of said Parcel, said line being the westerly prolongation of and the southerly line of Lexington Avenue, 70 feet wide, 374.43 feet to the True Point Of Beginning (T.P.O.B.), thence N88° 01' 28"E along the southerly line of Lexington Avenue 100.00 feet, thence southerly perpendicular to Lexington Avenue 20.00 feet, thence westerly parallel to Lexington Avenue 100.00 feet, thence northerly perpendicular to Lexington Avenue 20.00 feet to the T.P.O.B.

99 0876665

RECORDED REQUESTED BY  
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY  
1955 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED MAIL TO ABOVE ADDRESS  
ATTN: JANE C. FONG  
FACILITIES PLANNING DEPARTMENT

SPACE ABOVE THIS LINE FOR RECORDER'S USE

## QUITCLAIM DEED

CITY OF POMONA, a municipal corporation, does hereby remise, release, and forever quitclaim to the COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a county sanitation district organized and existing under the provisions of the County Sanitation District Act, Health & Safety Code §4700 et seq., all rights, title, and interest acquired under and by virtue of that certain Easement for sewer pumping station conveyed to the City of Pomona by deed dated November 14, 1967, recorded January 17, 1968 as Instrument No. 2757 in Book D3888, Page 464 of Official Records in the office of the Recorder of the County of Los Angeles, State of California.

CITY OF POMONA is signing this Quitclaim Deed on 1-8, 2013.

CITY OF POMONA, a municipal corporation

By: Linda C. Lowry  
Linda Lowry, City Manager

ATTEST:

Marie Michel Macias  
Marie Michel Macias, City Clerk

APPROVED AS TO FORM:

Arnold Alvarez-Glasman  
Arnold Alvarez-Glasman, City Attorney

(Signatures are to be notarized)

Easement No. 3346

Project: Pomona Pumping Plant No. 4

Parcel No. 8330-013-038



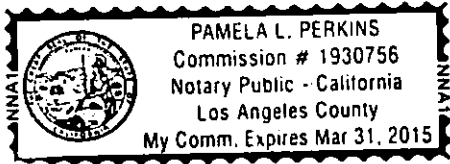
**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
County of Los Angeles }

On January 8, 2013 before me, Pamela L. Perkins, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Linda Lowry  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: *Pamela L. Perkins*  
Signature of Notary Public

Place Notary Seal and/or Stamp Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Quit Claim Deed - Pomona Pumping Plant No. 4

Document Date: \_\_\_\_\_ Number of Pages: 1

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Linda Lowry Signer's Name: \_\_\_\_\_

Corporate Officer — Title(s): City Manager

Corporate Officer — Title(s): \_\_\_\_\_

- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

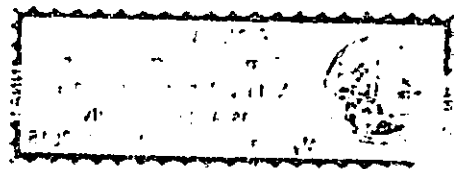
**RIGHT THUMBPRINT OF SIGNER**  
Top of thumb here

- Individual
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**  
Top of thumb here

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



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# **Appendix I Outreach**

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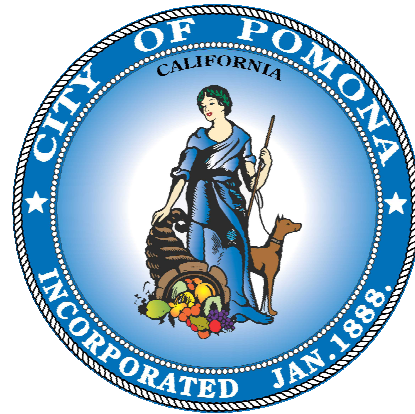
## What Restaurant and Building Owners Need to Know About Grease Traps or Interceptors

Restaurants and large buildings, such as apartment complexes, and other commercial establishments may have grease traps or interceptors that keep grease out of the sewer system. For a grease trap or interceptor to work correctly it must be properly.

1. Designed (sized and manufactured to handle the amount that is expected);
2. Installed (level, vented, etc.); and
3. Maintained (cleaned and serviced on a frequent basis).

Solids should never be put into grease traps or interceptors. Routine, often daily, maintenance of grease traps and interceptors is needed to ensure that they properly reduce or prevent blockages.

Be cautious of chemicals and additives (including soaps and detergents) that claim to dissolve grease. Some of these additives simply pass grease down pipes where it can clog sewer lines in another area.



City of Pomona

Public Works Department  
505 South Garey Avenue  
Pomona, CA 91766

Phone: (909) 620-2241  
[www.ci.Pomona.ca.us](http://www.ci.Pomona.ca.us)

City of Pomona



FAT-FREE  
SEWERS

How to Prevent Fats,  
Oils, and Grease from  
Damaging Your Home,  
Business, and the  
Environment



# Fats, Oils, and Grease aren't just bad for your arteries and your waistline; they are bad for sewers too!

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. An increasingly common cause of overflows is sewer pipes blocked by grease. Grease gets into the sewer from household drains as well as from poorly maintained grease traps in restaurants and other businesses.



## Where does the grease come from?

Most of know grease as the byproduct of cooking. Grease can be found in such things as:

- Meat Fats
- Lard
- Cooking Oil
- Shortening
- Butter and Margarine
- Food Scraps
- Baking Goods
- Sauces
- Dairy Products

To often, grease is washed into the plumbing system, usually through the kitchen sink. Grease sticks to the insides of sewer pipes (both on your property and in the streets). Over time, the grease can build up and block the entire pipe.

Home garbage disposals do not keep grease out of the plumbing system. These units only shred solid material into smaller pieces and do not prevent grease from going down the drain.

Commercial additives, including detergents, that claim to solve grease may pass grease down the line and cause problems in other areas.



## The results can be:

- Raw sewage overflowing in your home or your neighbor's home;
- An expensive and unpleasant cleanup that often must be paid for by you, the homeowners;
- Raw sewage overflowing into parks, yards, and streets;
- Potential contact with disease-causing organisms; and
- An increase in operation and maintenance costs for local sewer departments, which causes higher sewer bills for customers.



**DON'T**



## What we can do to help.

The easiest way to solve the grease problem and help prevent overflows of raw sewage is to keep this material out of the sewer system in the first place.

## There are several ways to do this.

1. Never pour grease down sink drains or into toilets.
2. Scrape grease and food scraps from trays, plates, pots, pans, utensils, and grills and cooking surfaces into a can or the trash for disposal (or recycling where available).
3. Do not put grease down garbage disposals. Put baskets/strainers in sink drains to catch food scraps and other solids, and empty the drain baskets/strainers into the trash for disposal.
4. Speak with your friends and neighbors about the problem of grease in the sewer system and how to keep it out. Call your local sewer system authority if you have any questions.



**The drain is not a dump**



**Put fats, oils and grease where they belong.**

Mix them in your trash with absorbent waste like paper, coffee grounds, or kitty litter.



Public Works Department  
148 North Huntington Street, Pomona, California 91768  
(909) 620-2241

A PUBLIC SERVICE ANNOUNCEMENT FOR POMONA RESIDENTS  
From Your Public Works Department



Help us Protect our  
Environment!

Grease, oil, and fat should go  
from

the Pan...



...to the



Can.

Never pour grease, cooking oil,  
or fat down the sink.

They can clog drains and cause  
sewer pipes to back up.

Cool down your cooking oil,  
grease, and fat - pour them into  
a container with a secure lid.

*Trash the can – not your pipes!*

Wipe out pots and pans with a paper  
towel before doing dishes – you will use  
less soap and decrease clogs.

**Dispose of food scraps in the trash –  
not down garbage disposals, drains, or  
toilets.**

UN ANUNCIO PUBLICO DE SERVICIO PARA LOS RESIDENTES DE POMONA  
Departamento de Public Works



**Ayudenos a proteger nuestro medio  
ambiente!**

La grasa y aceites van de

el Sarten...



...a la



Basura.

Nunca vacie por el fregadero la  
grasa y aceites para cocinar.

**Pueden obstruir el drenaje y  
causar el cano de desague que se  
estanche.**

**Enfrie su aceite y grasa para  
cocinar y vacielos a una lata con  
tapa segura.**

***Tire la lata y no sus tuberias a la basura!***

Limpie las cacerolas y los sartenes con una  
toalla de papel antes de lavar los platos – asi  
usando menos jabon y disminuir la  
posibilidad de que se tape la tuberia.

**Tire pedasos de comida en la basura –no  
en el fregadero, drenaje, o tasa de bano.**

---

## **Appendix J Audits**

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# **Audit Report of the City's 2013 Sewer System Management Plan (SSMP) for Waste Discharge Requirements Compliance**

May 2016



City of Pomona  
148 North Huntington Street  
Pomona, California 91768

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Raul C Garibay, P.E.



## ACKNOWLEDGEMENT

The material assembled in this report was gathered through the initial kick-off meeting and subsequent request for information from the City of Pomona (City). Additionally, supplemental information was provided by the City following the Workshop held at the City. The City would like to extend sincere thanks to the following staff from the City of Pomona who provided information for the preparation of this report. These staff included: Raul Garibay, Norbert Baldonado, Tim Hampton, and Ishmael Lopez.

## LIST OF ACRONYMS

BMP-.Best Management Practice  
CCTV- Closed-Circuit Television  
CIP - Capital Improvement Program  
CIWQS - California Integrated Water Quality System  
CMMS – Computerized Maintenance Management System  
CWC - California Water Code  
CWEA – California Water Environment Association  
DS – Data Submitter  
FOG - Fats, Oils, and Grease  
FSE – Food Service Establishments  
GIS - Geographic Information Systems  
I/I - Infiltration/Inflow  
KPI - Key Performance Indicator  
LACSD - Los Angeles County Sanitation Districts  
LRO - Legally Responsible Official  
MMRP - Mitigation Monitoring and Reporting Program  
MRP - Monitoring and Reporting Program  
NOI - Notice of Intent  
NPDES - National Pollutant Discharge Elimination System  
OES - Office of Emergency Services  
O&M - Operations and Maintenance  
PLSD – Private Lateral Sewage Discharge  
PDWF - Peak Dry Weather Flow  
PWRP - Pomona Water Reclamation Plant  
RFP – Request for Proposal  
RWQCB - Regional Water Quality Control Board  
SECAP - Sewer System Evaluation and Capacity Assurance Plan  
SSMP - Sanitary Sewer Management Plan  
SSOs – Sanitary Sewer Overflows  
SWRCB - State Water Resources Control Board  
VCP - Vitrified Clay Pipe  
WDR - Waste Discharge Regulations  
WWD - Water/Wastewater Operations Director



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## Executive Summary

### Background

The City of Pomona is conducting this Audit Report to remain in compliance with the Waste Discharge Requirement (WDR).

This report has been developed based on the discussions with City staff. It is also based on a comprehensive review of all the internal SSMP related documents:

- 2008 and 2013 SSMPs
- 2005 Sanitary Sewer Master Plan
- 2010 Internal City Audit
- 2012 Gap Analysis
- City Ordinances, and
- Pomona Standard Drawings.

A detailed review and section by section comparison between where the City is and what it needs to do to become compliant with the WDR order is shown in the following sections.

### Summary of Findings

The City has been proactive in its operation and management of its sanitary sewer system and its following of the WDR regulations. In September 2013, the City completed and adopted its Sanitary Sewer Management Plan (SSMP) and this is the first bi-annual self-audit.

Based on the WDR's requirement, the City has set the following eight goals for meeting the minimum requirements of the Order:

1. Proper management, operation, and maintenance of all parts of the system;
2. Reduced occurrence of and potential for SSOs;
3. An effective FOG control program;
4. Assurance of adequate capacity to convey peak wastewater flows
5. A current long-range planning and improvement plan;
6. Compliance with all regulatory requirements;
7. Protection of the public's health and safety; and
8. Effective public information and education efforts.

Based on an overall review of the City's SSMP, Sewer Master Plan, discussions with the Wastewater Maintenance Section, and a review of all other documents , it appears that Goals 1, 2, 5, 6, 7, and 8 have complied with the WDR requirements. Goals 3 and 4 have been initiated by the City but still need to be developed and implemented.

- a) One of the first and most important actions the City needs to take is to update its organization chart for the WDR implementation purposes and also update the CIWIQS database accordingly. This includes designating the Water/Wastewater Operations Director (WWD) as the Legally Responsible Official (LRO). The WWD can and did delegate some of the LRO's responsibilities to other individuals such as the Wastewater Collection System Supervisor but it is important to assign the LRO designation to an individual that by title and code has the final say on all administrative and fiscal activities of the department responsible for the sanitary sewer system. Additionally, there are





several ordinances that we recommend be added to the City's code centralizing the role of the WWD in WDR related codes and giving him enforcement abilities in areas such as Fats, Oils, and Grease (FOG) compliance.

- b) City needs to add other ordinances that would strengthen City's overall municipal code in WDR enforcement and compliance. These include adding sections addressing Infiltration/Inflow, stormwater, design issues and standards, and FOG.
- c) In terms of overall Operations and Maintenance, the City needs to leverage its GIS technology more by the use of automated GIS Applications both for field use and office use. City of Pomona should utilize a Predictive Maintenance Program including plans for, planned and scheduled inspection and rehabilitation of its sanitary sewer system. These would include "Hot Spots" identification in GIS and Trend analysis utilizing the cleaning schedule. City has done a good job establishing a Key Performance Indicator (KPI) for cleaning its sewer system. This information, however, is not readily accessible by field and office staff. Additionally, the City's inventory of scanned sewer system as-built drawings are also not utilized on a regular basis. Use of a GIS application that connects both the as-built and the CCTV video to each sewer line will streamline functionality for City's staff. Additionally, this application can be also utilized on a Tablet by field staff to red line and relay field updated to City staff on a regular basis.
- d) The City should develop and adopt a comprehensive FOG program.
- e) The City should migrate towards implementing a GIS based Computerized Maintenance Management System (CMMS) for all its work orders and to efficiently and automatically track all personnel, equipment, and material. In the interim, they are in the process of developing and implementing the software Sedaru which will make operations reporting much more efficient.
- f) The City should undertake a new and comprehensive Sanitary Sewer Master plan that incorporates a new hydraulic model of 8" or larger, has the latest population data, and incorporates the latest General Plan updates.
- g) The City should develop and adopt a new Sewer Rate Study that takes into account the cost of implementing the WDR program including the revised CIP, equipment reserves, FOG Program, additional public outreach, etc.
- h) The City should continue to develop a program that focuses on collecting data from all relevant sources, provides the City with critical information associated with the performance of the City's sanitary sewer system and associated programs. This system needs to be integrated with GIS to help with trend analysis for Hot Spots, FOG, SSO mapping as well as CIP tracking. Furthermore, a system for communication and data submittals that are associated with SSOs and sewer backups that are reported to the online SSO database should be developed. If necessary, a matrix of additional Key Performance Indicators should be developed that would help the City develop its Measurement, Monitoring and Reporting Procedures (MMRP).



- i) The City should develop an audit program that addresses the following:
  - o Document Control
  - o Training
  - o Targets and Objectives
  - o Data Management
  - o Documented Procedures
  - o Outcomes
  
- j) Create a plan and schedule the implementation of a comprehensive public communication and educational program.



## **SECTION 1 – Introduction**

This audit report is a means of examining systemic factors that have contributed to, or caused, a gap between the current state of the system and the future and desired state outlined in the WDR compliance requirements. The audit report analysis process includes an in-depth analysis of the factors that have created the current state, laying the groundwork for improvement planning. This approach ensures that the system improvement process does not jump from identification of problem areas to proposing and implementing solutions without first understanding the conditions that created the current state.

### **1.1 Service Area and Sewer System**

The City of Pomona is located in Los Angeles County approximately 35 miles east of downtown Los Angeles, borders San Bernardino County's western boundary and is just 5 miles north of Orange County. The City encompasses approximately 23 square miles and serves approximately 152,419 residents. The City incorporated in January 1888, became a charter city in March 1911, and is the seventh-largest city in Los Angeles County based upon the 2010 census.

The wastewater collection service area includes incorporated areas within the City limits and a limited area outside the City limits. The City collects and conveys wastewater from the service area for treatment by the Los Angeles County Sanitation Districts (LACSD). Local City sewer mains discharge to several trunk sewers owned and maintained by the LACSD that run through the City. The City's service area is shown in Figure 1 below.



Figure 1: City's Sewer Service Area



The City is dedicated to improving the condition and performance of its wastewater collection system and reducing the occurrences of SSOs. Development and implementation of a wastewater collection system operations and maintenance (O&M) program serves to ensure that the wastewater collection system is routinely and properly maintained in a manner that minimizes failures and extends the longevity of the system.

## 1.2 Regulatory Overview

The State Water Resources Control Board (State Water Board) adopted Water Quality Order 2006-0003, on May 2, 2006, requiring all public agencies that own sanitary sewer collection systems greater than one mile in length to comply with the Statewide General Waste Discharge Requirements (WDR) for Sanitary Sewer Systems. All public agencies must apply for coverage by November 2, 2006, by completing the notice of intent (NOI) and legally responsible official (LRO) forms that the State Water Board distributed. The City of Pomona has completed the NOI and is within the regulatory time frames.

Section 3.2.4 Authorized Representatives of the 2013 SSMP requires the following modification to make it current:

- The Public Works Director Rene Salas is no longer the City's Primary Legally Responsible Official (LRO) and any reference should be removed
- Darron Poulsen Water/Wastewater Operations Director (909) 620-2253 is the City's primary LRO and the authorized representative registered with the State of California to officially sign and certify SSO reports submitted via the California Integrated Water Quality System (CIWQS):
- The City has also identified the following staff as alternate LROs:
  - Norbert Baldonado Wastewater Collection System Supervisor (909) 620-2260
  - Raul Garibay Supervising Water Resources Engineer (909) 620-2239
  - Nick Capogni Water Treatment and Quality Supervisor (909) 620-2248

The intent of the WDR is to provide consistent statewide requirements for managing and regulating sanitary sewer systems throughout California. The State Water Board recognized a need to provide this consistent regulatory measure because many of the Regional Water Boards were beginning to implement similar measures inconsistently throughout the State, which was creating confusion in the discharger community. The State Water Board believes that providing a consistent regulatory measure that identifies regulatory expectations and comprehensive sanitary sewer overflow data will ultimately yield better collection system management and performance.



There are three major components to the WDR, including:

- Sanitary Sewer Overflow (SSO) Prohibitions;
- Sanitary Sewer Management Plan (SSMP) Elements; and
- SSO reporting.

While there are many other relevant components and findings within the WDR, the major components identified above represent most of the State Water Board's regulatory expectations for the implementation of the WDR. This regulatory audit is intended to provide an analysis of the current programs and practices within the City that address the above issues. This document will provide recommendations to ensure the development of appropriate SSMP programs and an appropriate time schedule necessary to comply with the WDR.

### 1.3 Prohibitions

Section C of the WDR identifies and prohibits SSOs that results in a discharge of untreated or partially treated wastewater to waters of the United States and/or creates a nuisance as defined in California Water Code (CWC) Section 13050(m) is prohibited. CWC section 13050, subdivision (m), defines nuisance as anything which meets **all** of the following requirements:

- a) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c) Occurs during, or as a result of, the treatment or disposal of wastes.

Since the State Water Board has not specifically defined SSOs that are subject to this prohibition and criteria for determining whether or not an SSO violates the above prohibition, the State and/or Regional Water Board will consider potential violations on a case-by-case basis. In general however, if an SSO results in a discharge to a surface water or drainage channel, the Water Board will consider this a discharge to Waters of the US. Additionally, if an SSO reaches an enclosed storm drainage pipe, and the SSO was not fully contained, captured, and pumped back into the sanitary sewer system, the Water Board will generally assume that the SSO reached a water of the US. In both cases, the SSO will probably result in a violation of the WDR prohibition.

Determining whether an SSO created a nuisance is even more problematic and subjective. Again, since the State Water Board has not specifically defined SSOs that are subject to the nuisance prohibition and criteria for determining whether or not an SSO is in violation of this prohibition, the State and/or Regional Water Board will consider violations on a case-by-case basis.

In both cases, while reporting SSOs, determining whether or not the SSO violated the prohibition is not up to the reporting Agency. It is the enforcement agency's responsibility to determine compliance with the WDR.



## 1.4 SSO Reporting

WDR finding number 9 states:

Both uniform SSO reporting and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached Monitoring and Reporting Program No. 2006-0003-DWQ, are necessary to assure compliance with these waste discharge requirements (WDRs).

Furthermore, the State Water Board Fact Sheet states:

SSOs can be distinguished between those that impact water quality and/or create a nuisance, and those that are indicators of collection system performance. Additionally, SSO liability is attributed to either private entities (homeowners, businesses, private communities, etc...) or public entities.

Although all types of SSOs are important to track, the reporting time frames and the type of information that need to be conveyed differ. The Reporting Program and Online SSO Database clearly distinguish the type of spill (major or minor) and the type of entity that owns the portion of the collection system that experienced the SSO (public or private entity). The reason to require SSO reporting for SSOs that do not necessarily impact public health or the environment is because these types of SSOs are indicators of collection system performance and management program effectiveness, and may serve as a sign of larger and more serious problems that should be addressed. Although these types of spills are important and must be regulated by collection system owners, the information that should be tracked and the time required to get them into the online reporting system are not as stringent.

Obviously, SSOs that are large in nature, affect public health, or affect the environment must be reported as soon as practicable and information associated with both the spill and efforts to mitigate the spill must be detailed. Since the Online SSO Database is a web based application requiring computer connection to the internet and is typically not as available as telephone communication would be, the Online Database will not replace emergency notification, which may be required by a Regional Water Board, Office of Emergency Services, or a County Health or Environmental Health Agency.

In order to implement the above vision, the State Water Board has developed a web based database that will be used to report all SSOs. This online spill reporting system is hosted, controlled, and maintained by the State Water Board. The web address for this site is <http://ciwqs.waterboards.ca.gov>

This online database is maintained on a secure site and is controlled by unique usernames and passwords. Because the City has been enrolled into the WDR, has identified a Legally Responsible Officials (LROs), the State Water Board has issued both a user name and password to each LRO and notified the individuals of this information.

These accounts will allow controlled and secure entry into the SSO Database. Additionally, within thirty (30) days of receiving an account and prior to recording SSOs into the SSO



Database, all Enrollees must complete the “Collection System Questionnaire”, which collects pertinent information regarding an Enrollee’s collection system. The “Collection System Questionnaire” must be updated at least every 12 months.

All reports required by this Order and other information required by the State or Regional Water Board shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative. For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.

All reporting requirements are described within the Monitoring and Reporting Program (MRP) that was adopted by the State Water Board Order, along with the WDR. The MRP is also attached to this document in Appendix A.

California Health and Safety Code section 5411.5, states that:

Any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

California Water Code section 13271, also requires any SSO greater than 1,000 gallons that is discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the Office of Emergency Services as soon as:

1. That person has knowledge of the discharge,
2. Notification is possible, and
3. Notification can be provided without substantially impeding cleanup or other emergency measures.

## **SECTION 2 – Background**

The City operates its own wastewater collection system and associated infrastructure facilities within the City limits. The City’s Water/Wastewater Operations Department’s vision is responsible for the operation and maintenance of an extensive wastewater collection system and is tasked with ensuring proper and efficient operation of the system. The City provides sewer service throughout the City and to a limited area outside the City limits. The City’s wastewater collection system consists of approximately 317 miles of gravity sewer, four (4) pump stations, 1.4 miles of force mains, 6,360 manholes, and five (5) siphons. (refer to the Service Area Collection Map)

Sewage collected by the City’s wastewater collection system is conveyed to the Pomona Water Reclamation Plant (PWRP) for treatment and disposal under the authority of the LACSD. The four sewage pump stations are now owned, maintained and operated by the LACSD under the terms of a contract.



An SSO is defined by the WDR as any overflow, spill, release, discharge, or diversion of untreated or partially treated wastewater from a sanitary sewer system, including:

- Overflows or releases of untreated or partially treated wastewater that reach waters of the United States.
- Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States.
- Wastewater backups into buildings and on private property caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

SSOs may cause a public nuisance, particularly when raw wastewater is discharged to areas having high public exposure, such as streets or surface waters used for drinking, fishing, or body-contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.

Agencies in California that own sanitary sewer systems and experience SSOs are required to enter the SSO information into California's Integrated Water Quality System (CIWQS) database—the SWRCB's information management system for regulatory and water quality data reporting. In addition, SWRCB requires that agencies notify the State Office of Emergency Services (OES) within 24 hours of any spill that exceeds 1,000 gallons.

In summary, the WDR is intended to:

- Provide a consistent and unified statewide approach for the reporting and database tracking of SSOs.
- Establish consistent and uniform requirements for SSMP development and implementation.
- Facilitate consistent enforcement of the WDR regulation and violations.

There are three categories of SSOs:

- o Category 1—A discharge that equals or exceeds 1,000 gallons and results in a discharge to a drainage channel, surface water, or drainpipe that was not fully captured and returned to the sanitary sewer system; and
- o Category 2—A discharge that is under 1,000 gallons, or does not discharge to a drainage channel or surface water, or was captured and returned to the sanitary sewer system.
- o Category 3 – all other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition.

Private Lateral Sewage Discharge – Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee's sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be **voluntarily** reported to the SSO Database.





Capacity assurance is at the heart of the WDR. The SWRCB's WDR requires the preparation of SSMPs, while implementation of SSMPs is the responsibility of the nine Regional Water Quality Control Boards (RWQCBs). The SSMP consists of a set of documented plans to address how a wastewater collection system conducts business management, funding, design, operations, maintenance, and emergency response. The System Evaluation and Capacity Assurance Plan (SECAP) element of the SSMP includes evaluation of peak flows, design criteria, and capacity enhancement measures, and a schedule with planned completion dates of capital improvements.

Goals of the SSMP are to:

- Properly manage, operate, and maintain all portions of the agency's wastewater collection system;
- Provide adequate capacity to convey peak wastewater flows;
- Minimize the frequency of SSOs;
- Mitigate the impacts that are associated with any SSO that may occur; and
- Meet all applicable regulatory notification and reporting requirements.

The SSMP prescribes specific milestones that relate to the specific elements required in the WDR:

1. Goals,
2. Organization,
3. Legal Authority,
4. Operations and Maintenance Program,
5. Design and Performance Provisions,
6. Overflow Emergency Response Plan,
7. Fats, Oil and Grease (FOG) Control Program,
8. System Evaluation and Capacity Assurance Plan (SECAP),
9. Monitoring, Management, and Plan Modifications,
10. SSMP Program Audits, and
11. Communication Program.

An SSMP program audit must be conducted at least every two years, and the audit report must be kept on file by the City staff. Successful implementation of an SSMP and compliance with the WDR could result in significant cost-savings to the City and its residents.

This report includes an analysis of the WDR regulation and the City's opinion of its current compliance status for each important element of the regulation.



## **SECTION 3 - Goals**

**Section D.13(i) - Goal:** The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.

### **3.1 Overview**

This section describes the goals of the Sewer System Management Plan (SSMP), which is to provide a documented plan that describes all collection system activities and programs employed by an agency to ensure proper management of all collection system assets. Implementing an SSMP will ensure proper management, operation, and maintenance of all parts of the sanitary sewer system, ultimately helping to reduce and prevent SSOs, as well as mitigate any SSOs that do occur including meeting all applicable regulatory notification and reporting requirements.

Commitment to continual improvement will also ensure that the SSMP is both a living and sustainable document that is continually updated, revised, and tailored towards the City's needs. The City is required to comply with the "State Water Resources Control Board (SWRCB), Order No. 2006-0030 DWQ" (Order) on General Waste Discharge Requirements for publicly owned sewage collection agencies having more than one mile of collection pipelines.

### **3.2 Purpose**

This element describes the City's stated goals of the SSMP and is intended to clarify the City's desired level of service that it is providing to its customers. Typically, high level statements regarding the overall management of a system includes a vision and mission statement, as well as a statement of short and long term goals.

THE MISSION STATEMENT is the first step in the planning process to identify overall functions or missions of the organization. This broad statement of purpose is commonly known as the mission statement.

THE VISION STATEMENT is a clarifying phrase that states where the City is heading. It helps set the course of future decisions and direction. The City Mission statement, as listed on its website, is as follows:

***"The City of Pomona improves the quality of life for our diverse community".***

A STATEMENT OF GOALS should include both short and long term commitments that will ultimately measure progress toward achieving and accomplishing both the stated Vision and Mission. Goals should be developed specific to the City's desired level of service. Careful thought and planning should occur when developing the Goals, because these are measurable outcomes that can be touted if accomplished or criticized if not accomplished. The development of reasonable Goals is often a balancing act between budget and performance. Creating Goals that meet this balance is often difficult and always specific to individual communities.



### 3.3 Minimum Requirements

Goals that the City must commit to and are identified in the WDR include:

1. Create/develop a management, operation and maintenance plan and schedule to reduce preventable SSOs.
2. Respond to and mitigate all SSOs discharging from the City's collection system.
3. Ensure adequate system capacity for the current and future needs of the City's service area.
4. Establish measurable performance indicators and manage assets at lowest life cycle costs.
5. Provide accurate reporting of all SSOs as described by the Order.
6. Properly fund, manage, operate, and maintain, with adequately trained staff and/or contractors.
7. All parties involved, shall possess adequate knowledge skills and abilities necessary to ensure the proper management, operation, and maintenance of all parts of the sewage collection system owned and/or operated by the City of Pomona.

The State Water Board also expects both a plan and schedule to be created by the City to ensure that an SSMP is developed in accordance with the time schedule identified in the WDR and will facilitate proper sanitary sewer system management, operation, and maintenance.

### 3.4 Evaluation

#### ***Has the agency established its goals consistent with the Order?***

*Based on a review of City's existing SSMP, the City has set the following eight goals for meeting the minimum requirements of the Order:*

1. *Proper management, operation, and maintenance of all parts of the system;*
2. *Reduced occurrence of and potential for SSOs;*
3. *An effective FOG control program;*
4. *Assurance of adequate capacity to convey peak wastewater flows*
5. *A current long-range planning and improvement plan;*
6. *Compliance with all regulatory requirements;*
7. *Protection of the public's health and safety; and*
8. *Effective public information and education efforts.*

#### ***Has the agency established a defined level of service?***

*The City has established a level of service for cleaning of its sewer lines and establishing a numerical limit on SSO's per 100 mile of collection systems; or establishing a standard response time to an occurrence of an SSO. The goal is to clean every line segment every 1.5 years and reduce SSOs per year for every 100 miles of conveyance system. Based on discussions with the City's wastewater maintenance personnel, they have been able to meet and exceed both this goals. Additional Key Performance Indicators (KPI) need to be established though for all elements of the SSMP including FOG, CIP implementation, overflow emergency response and Mitigation Monitoring and Reporting Program or MMRP as well as define acceptable "Level of Service" as part of its goals.*



### 3.5 Recommendations

*Based on an overall review of the City's 2013 SSMP, discussions with the Wastewater Maintenance Section, and a review of all other City documents, it can be concluded that Goals 1, 2, 3, 5, 6, 7,8 have been initiated by the City, but still need additions and refinements. Goal 4 needs to be developed and implemented. These recommendations for specific sections of the SSMP have been discussed throughout this report.*

*Some items that the City may want to address in its Mission Statement are contained in Sections D.3-10, of the WDR. In general these items include:*

- *The City will take reasonable steps and attempt to provide feasible alternatives to the reduction and mitigation of SSOs, including:*
  - *Temporary storage or retention of untreated wastewater*
  - *Reduction of inflow and infiltration*
  - *Use of adequate backup equipment*
  - *Collecting and hauling of untreated wastewater to a treatment facility or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP.*
- *The Enrollee shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:*
  - *Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure;*
  - *Vacuum truck recovery of sanitary sewer overflows and wash down water;*
  - *Cleanup of debris at the overflow site;*
  - *System modifications to prevent another SSO at the same location;*
  - *Adequate sampling to determine the nature and impact of the release; and*
  - *Adequate public notification to protect the public from exposure to the SSO.*
- *The City shall properly, manage, operate, and maintain all parts of the sanitary sewer system owned or operated by the City, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities.*
- *The Enrollee shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices.*
- *The City will provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the Enrollee's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the Enrollee.*



## **SECTION 4 - Organization**

- D.13 (ii) - **Organization:** The SSMP must identify:
- (a) The name of the responsible or authorized representative as described in Section J of this Order.
  - (b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
  - (c) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

### **4.1 Overview**

This element of the WDR describes both the organizational structure of the City as well as activities, duties, and responsibilities for individuals and positions associated with the sanitary sewer system. This section includes typical positions and their associated activities, duties, and responsibilities.

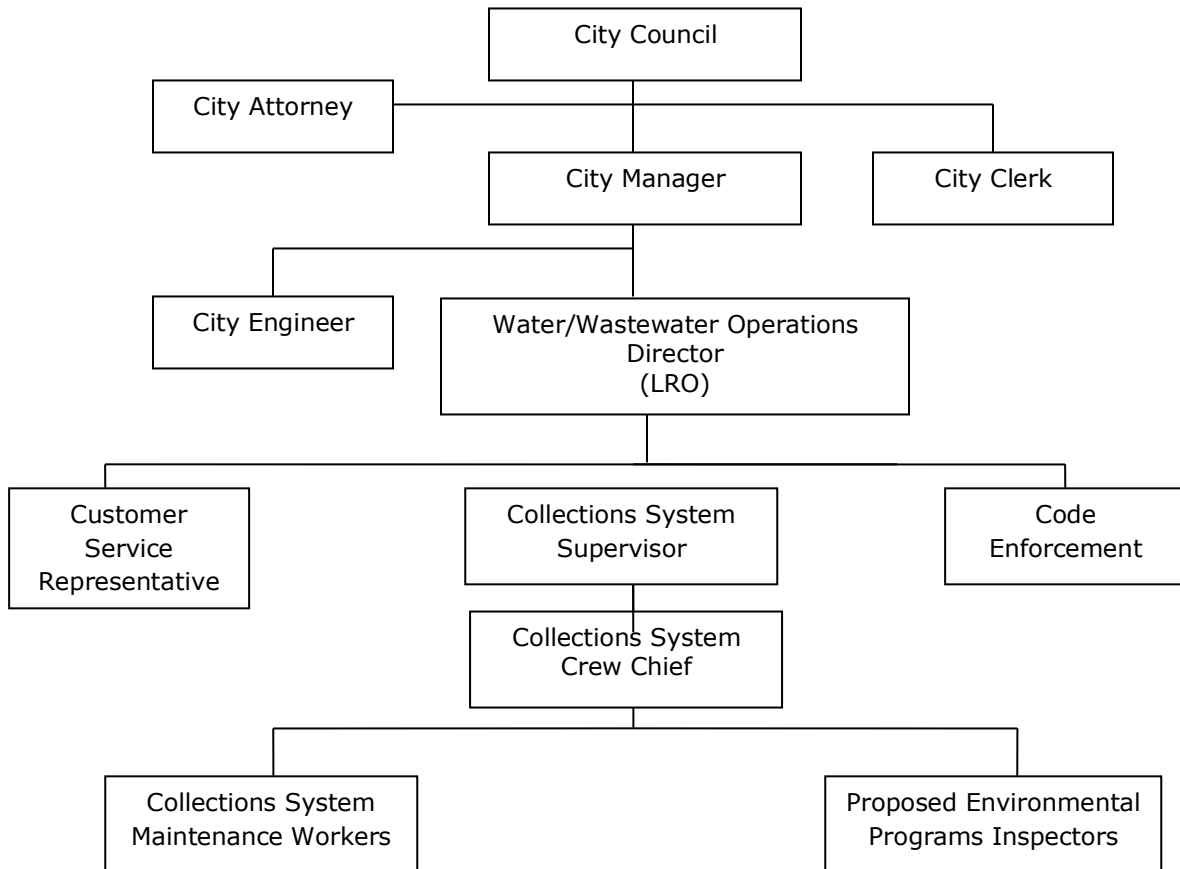
### **4.2 Purpose**

Clearly identifying specific roles and responsibilities within the organization will ensure a clear understanding of duties that must be performed, as well as training and skill sets that are associated with specific jobs throughout the agency. Typical position and associated responsibilities are shown on Exhibit 1. The chart located in the 2013 SSMP listed the Public Works Director as the LRO. This Exhibit requires updating to replace this position with the Water/Wastewater Operations Director who is the primary LRO for the City.

The job title and descriptions will also require updating listed below the Exhibit 1 also require similar changes. More specifically, the Public Works Director should be removed and replaced with the Water/Wastewater Operations Director. The new Director title would replace the previous title of Water/Wastewater Manager held by Mr. Poulsen.



**Exhibit 1  
Typical City Org Chart**



**City Council** Establishes policies, reviews and accepts formal plans, sets overall City direction, authorizes funds for projects/plans/programs, general overview of upper management (Mayor, City Manager, City Attorney), conducts public meetings and hearings, approves SSMP.

**City Attorney** The City's attorney develops and approves legal documents, provides legal advice, conducts litigation, and attends public meetings.

**City Manager** Responsible for the day-to-day management and operation of the City under the direction of the City Council. Specifically the City Manager establishes procedures, plans strategy, leads staff, allocates resources defined in the City budget, delegates responsibility, authorizes outside contractor to perform services, and serves as overall public information officer.



**City Engineer** Responsible for the development and implementation of city design and construction standards. Quite often responsible for 3<sup>rd</sup> party plan check as well as construction and building inspection. Provides engineering drawings, plans, and specifications for projects within the city. Also is responsible for developing or overseeing engineering studies such as hydraulic modeling, master planning, and CIP program development.

**Water/Wastewater Operations Director** Responsible for the management and operation of the Water/Wastewater Operations Department, including the operation and management of the sanitary sewer system. Reports to the City Manager and is one of the **LRO for the City.**

**Collections System Supervisor** Responsible for the operation and maintenance activities of the sanitary sewer system, including direct supervision and scheduling

**Field Supervisor** Oversight of all maintenance crews, and regularly scheduling maintenance activities. Coordinates field operations and prepares and implement overflow emergency response plan, leads emergency response, investigates and reports SSOs and trains maintenance workers and field crews.

**Collections System Maintenance Workers** Staff preventative maintenance activities, report condition of City assets, mobilize and respond to notification of stoppages and SSOs, and mobilize sewer-cleaning equipment and by pass pumping equipment.

**Customer Service Representative** Responsible for receiving maintenance calls and complaints and dispatching maintenance workers to perform emergency operations. Also responsible for initiating records within the agencies tracking system for SSOs and other related events.

#### 4.3 Minimum Requirements

1. The name of the responsible or authorized representative as described in Section J of this Order.
2. The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
3. The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).



#### 4.4 Evaluation

***Has the agency named a responsible party or authorized representative compliant to the Order and is that person's name and contact information available?***

*Yes; that authorized Representative is Darron Poulsen. He is located at 148 North Huntington Street, Pomona, California, 91768. His office phone number is (909) 620-2253.*

***Have the names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program been identified?***

*Yes; they are listed in the 2013 SSMP, Appendix D, Attachment E.*

***Have the lines of authority through an organization chart or similar document with a narrative explanation been developed?***

*Yes; the City's organizational chart is listed in the 2013 SSMP, Section. 3.2.1 Governance, Figure 3-1. It is also shown on Exhibit 2.*



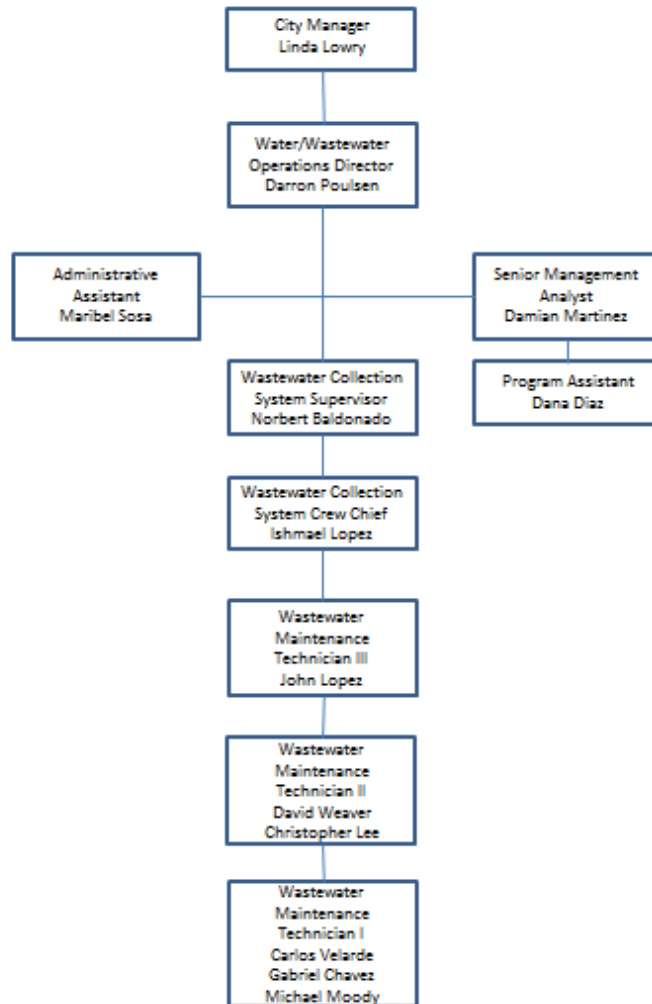


Exhibit 2: City of Pomona Wastewater System Organization Chart

***Has the chain of communication and protocol for reporting and responding to SSOs been developed?***

*The City still maintains a chain of communication or protocol for those receive the initial notification of collection system issues, transmits that information to field crews, or who are responsible for notifying and implementing reporting procedures.*

**4.5 Recommendations**

*The City has designated the Water/Wastewater Operations Director as the primary LRO, He has delegated his authority on a daily basis to the Wastewater Collection System Supervisor and any additional LROs in the event of their absence from the workplace.*



The current organizational document has been updated to define the roles and responsibilities for all City Employees and other parties that are responsible for carrying out activities associated with sanitary sewer system. Also, the job description includes duty statements, job performance requirements, and other pertinent information necessary to clearly communicate roles, responsibilities, skill sets, licensures, and training needed to carry out specific job related duties. .

Currently, the City has a “Customer Service Line” which refers customers to the Police Department Dispatch, after normal business hours. The Police Department does have all emergency contact information in case of an SSO.

The existing procedures should be updated, and communicated to all parties that could potentially be involved with SSO response, notification, and reporting. Emergency contact telephone numbers should be distributed to the public, public agencies that may be involved with response to SSOs (fire, police, public health, regional board, etc...), and all appropriate City staff. Additionally, clear procedures that identify communication paths between the City and any other city contractors should be developed, communicated, and routinely tested to ensure proper implementation, training, and revisions if needed. This information should readily be available on the City’s web site, as well.

Listed below are specific changes that need to be updated in our current SSMP:

- **Section 3.2**, Discussion on Organizational Structure: Need to remove the reference to the Public Works Department and replace with Water/Wastewater Operations Department:
- **Section 3.2.1**, Governance: Rene Salas is no longer the LRO; he needs to be replaced with Darron Poulsen name and title; the Sewer Division no longer resides under his authority so Figure 3-1 needs to be updated as well; need to change Darron title and job description on the Definitions
- **Figure 3-1**: Needs to reflect Darron’s new position and title
- **Section 3.2.2**: Need to replace text that replaces Public Works Director with the Water/Wastewater Operations Director; also, need to remove the reference to the PW Director
- **Figure 3-1, Page 3-5**: Figure numbering system is incorrect; this should be Figure 3-2; need to replace text that replaces Public Works Director with the Water/Wastewater Operations Director; also, need to remove the reference to the PW Director
- **Section 3.2.3**: Needs to reflect Darron’s new position and title; also, need to remove the reference to the PW Director
- **Section 3.2.4**: Needs to reflect Darron’s new position and title; need to change his telephone number to (909) 620-2253
- **Figure 3-2**: Needs to reflect Darron’s new position and title; also, need to remove the reference to the PW Director



## **SECTION 5 - Legal Authority**

- D.13 (iii) **Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:
- (a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
  - (b) Require that sewers and connections be properly designed and constructed;
  - (c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
  - (d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
  - (e) Enforce any violation of its sewer ordinances

### **5.1 Overview**

This chapter is intended to identify and describe the necessary legal authority that an agency must have in order to implement SSMP plans, programs, and procedures. Regulatory mechanisms that are used by cities quite often include City Ordinances, Codes, and Resolutions, State and Federal Laws, Licensing and Permitting Processes, Memorandum of Agreements, Contractual Agreements, as well as other programmatic mechanisms necessary to carry out asset management activities.

### **5.2 Purpose**

The basis of all authority to manage, operate, and maintain agency's infrastructure is derived from documents adopted by its elected board or council. In order to ensure that the City has the proper legal authority established to implement and enforce all of the programs required by the WDR, the City must first establish necessary legal authority to do so.

### **5.3 Minimum Requirements**

The SSMP must include the legal authority, through sewer use ordinances, service agreements, or other legally binding procedures, to:

- a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
- b) Require that sewers and connections be properly designed and constructed;
- c) Ensure access for maintenance, inspection, or repairs for portions of sewer mains owned and maintained by the city that are on private property.



- d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
- e) Enforce any violation of its sewer ordinances.

#### 5.4 Evaluation

***Does the City Ordinance provide necessary control measures for illicit discharges including?***

1. ***Infiltration and Inflow;***
2. ***Fats/Oils/Grease (FOG);***
3. ***Chemicals that may be harmful and/or dangerous to infrastructure and the environment; and***
4. ***Other debris such as root cutting and construction materials?***

*The City does have ordinances providing control measures for illicit discharges such as FOG, chemicals, and other types of materials. However, there does not appear to be specific language as it relates to stormwater or I/I specific discharges and or construction. The City needs to prohibit discharge of unpolluted water, including stormwater, into a sanitary sewer through direct or indirect connection.*

***Do City ordinances and/or other legally binding requirements contain adequate legal authority to require proper design and construction of new and rehabilitation work?***

*After reviewing the City's Water & Sewer Ordinance, Chapter 62 of the City's Municipal Code, , there is adequate "General" language pertaining to the "Legal Authority" to require proper design and construction of new and rehabilitation work in the sanitary sewer system within the City of Pomona. There needs to be additional "Specific" language related to the construction of sewer lines and manholes to prevent I/I in the system, a review and revision of definitions, and a modification of role definition wherein the Water/Wastewater Director is acknowledged.*

***Do City legal requirements provide for both access for maintenance, repair, and inspection for all collection system assets?***

*There is adequate language pertaining to access to the sanitary sewer system for maintenance, repair and inspection within the City of Pomona.*

***Does the City's legal authority provide for enforcement measures in case of Ordinance violations?***

*The City's Water & Sewer Ordinance, Chapter 62 of the City's Municipal Code, has language pertaining to the enforcement measures that can be taken by Public Works Director/City Engineer. However, Public Works Director/City Engineer has limited or no authority when it comes to assessing fines for misdemeanors or infractions. As such, specific violations must be delineated to facilitate establishing the authorization necessary to issue violation notices and fines specific to the wastewater collection system, including passing on to the culpable parties fines and penalties that the City may incur for the negligent and intentional acts of others.*



**Are all service agreements up to date and explicitly identify roles and responsibilities and expectations?**

*The City no longer has a service agreement for maintenance of the four sewage lift stations. An agreement was reached and executed wherein the LACSD is now the owner and thus responsible for ongoing maintenance and capital improvements of those facilities.*

**Are other legally binding procedures documented, kept up to date, and available?**

*All legally binding procedures are documented, updated and available at City Hall.*

**5.5 Recommendations**

*The City should consider revising municipal codes, ordinance, and/or resolutions necessary to further develop the authority needed to implement many of the required SSMP elements and programs. One specific area that has still not been updated is centralizing the role of the Water/Wastewater Operations Director as the person responsible to review and condition construction plans, develop and enforce permits, and generally make decisions with respect to the wastewater collection system. Additional specific language for the construction of sewer lines and manholes for preventing I/I and stormwater needs to be developed.*

*Ordinances should also deal with easements and ingress-egress issues needed for access, ownership, and maintenance of all collection system assets. The City needs to revisit the agreements and locations, to explicitly lay out rolls, responsibilities, levels of service, programmatic implementation, and assumed liabilities and assumptions of risk.*



## **SECTION 6 - Operation and Maintenance Program**

- D.13 (iv) **Operation and Maintenance Program:** The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:
- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
  - (b) Describe routine preventative operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
  - (c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
  - (d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance and require contractors to be appropriately trained; and
  - (e) Provide equipment and replacement part inventories, including identification of critical replacement parts.



## 6.1 Overview

This section of the 2013 SSMP describes how the City will operate and maintain the sanitary sewer system within its jurisdiction. It involves the development and implementation of several major programs and activities including the production of maps, maintenance and cleaning schedules, and a comprehensive rehabilitation and replacement plan.

## 6.2 Purpose

Thorough assessment of the present condition of the sanitary sewer system, deficiencies and defects within the system can be identified so that these issues can be targeted and prioritized for rehabilitation. This program of preventative maintenance will help to ensure that costly catastrophic system failures are preempted and will serve to reduce the amount of SSOs to be reported within the City.

## 6.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Create and maintain an up-to-date map of the sanitary sewer system within an Enrollee's jurisdiction;
- 2) Develop and implement a Preventative Maintenance Program that describes preventative operation and maintenance activities and a system to document scheduled and conducted activities;
- 3) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and rehabilitation actions, including regular inspections of the conditions within the system.
- 4) Provide regular training for staff and contractors
- 5) Provide equipment and replacement part inventories.

## 6.4 Evaluation

### ***Does the City have and maintain a current collection system map?***

*The City does have its own automated set of collection system maps that have been developed and updated in a GIS system. This is shown in Appendix C of the 2013 SSMP.*

### ***Has the City developed and implemented a Preventative Maintenance Program that describes the Operations and Maintenance activities?***

*Yes, this program is defined in Appendix C of the 2013 SSMP. The program describes the City's responsibility for the ongoing maintenance and repair of the sewer main line. This includes routine and emergency cleaning. Elements of this plan includes preventive maintenance including cleaning of all sewer lines every 1.5 years. The City utilizes two (2) combination jetter/vactor vehicles and one (1) trailer mounted mechanical rodder. The sewers are typically cleaned by putting high pressure water jetting nozzles in the pipe and manually removing debris from the downstream manhole. Purchased equipment or staff-made appurtenances are inserted at the downstream manhole to capture and remove debris.*



**Has the City developed and implemented a rehabilitation and replacement plan?**

Yes; there have been sewer rehabilitation/replacements since the City's 2005 Sewer Master Plan and its CCTV work in 2010. However, the 2005 Master Plan's hydraulic analysis was based on modeling of larger diameter pipes, thereby yielding minimal or no recommendations for smaller diameter pipes that constitute 75% of the City's system. Although we have been able to reduce the amount of hot spots in the City system, we anticipate additional locations in need of repair and/or rehabilitation once we develop the new hydraulic model that will be reflective of mains 8" and larger. This new model has been identified as part of the Department's Strategic Plan. An RFP has been developed and will be going out to bid in the near future.

**Does the City provide regular training for staff and contractors that work with the sanitary sewer system?**

There has been training for the staff responsible for the normal and emergency operation and maintenance of the sewer collection system. To the extent possible, staff is sent to CWEA events where they are exposed to the latest techniques in sewer management. A Training Log is kept current by the Wastewater Crew Chief, Mr. Ishmael Lopez.


|  City Of Pomona<br>Wastewater Department<br>2015 Training Database |   |                               |  |                         |                                |                         |                           |  |  |  |  |  |  |  |             |
|---|---|-------------------------------|--|-------------------------|--------------------------------|-------------------------|---------------------------|--|--|--|--|--|--|--|-------------|
| Name  | Annual SSO Emergency Response Training 2/3/2015 | Annual WDR workshop 3/13/2015 | Wastewater Collections seminar 3/25/2015 | Confined Space 4/1/2015 | LCW Eval & Discipline 4/2/2015 | Confined Space 4/7/2015 | CWEA conference 4/29/2015 | Wastewater Collections seminar 7/30/2015 |  |  |  |  |  |  | Total Hours |
| Norbert Baldonado   | 2   |                               |  | 4                       | X                              |                         | X                         |  |  |  |  |  |  |  | 6           |
| Ishmael Lopez   | 2   |                               | 4  | 4                       |                                |                         |                           |  |  |  |  |  |  |  | 10          |
| John Lopez  | 2   |                               | 4  | 4                       |                                |                         |                           |  |  |  |  |  |  |  | 10          |
| Anthony Fedora  | 2   |                               |  |                         |                                |                         |                           |  |  |  |  |  |  |  | 2           |
| Christopher Lee   | 2   |                               | 4  |                         |                                | 4                       |                           |  |  |  |  |  |  |  | 10          |
| Carlos Velarde  | 2   |                               |  | 4                       |                                |                         |                           | 4  |  |  |  |  |  |  | 10          |
| David Weaver  | 2   | 4                             |  |                         |                                | 4                       |                           |  |  |  |  |  |  |  | 10          |
| Mike Moody  | 2   |                               | 4  |                         |                                | 4                       |                           |  |  |  |  |  |  |  | 10          |
|   |   |                               |  |                         |                                |                         |                           |  |  |  |  |  |  |  |             |

Figure -1: WW 2015 Training Database





When the City purchases new nozzles for cleaning, all staff undergo a training to understand the proper working of the equipment. Lastly, the staff is subjected to a spill scenario in January of each year wherein they have to demonstrate the proper procedure for establishing a manhole to manhole bypass system in the field.

**Does the City have a system in place to track sewer system equipment and replacement part inventories?**

The Wastewater Collection System staff maintains an inventory of vehicles and sanitary sewer system replacement parts. However, this is not an automated system and the City does not currently have a system for tracking sewer system equipment and replacement part inventories

## 6.5 Recommendations

The City should continue examine its cleaning program to see if it can "fine-tune" its cleaning frequency. Efforts to purchase water efficient nozzles and integrating root foaming products will provide efficiency and cost savings as the City moves forward.

There is 1,615,000 lineal feet of sewer pipeline in the system. Two (2) crews of two (2) persons each are assigned to continuously clean the system. To confirm the effectiveness of the cleaning activities, the City's CCTV inspection crew has begun to randomly televise approximately 4,000 lineal feet of pipe that has been cleaned within the past two (2) weeks. The locations should be equally divided among the work performed by the crews. A pipe's cleaning frequency should be based on the pipe's "grade" during its cleaning interval. The cleaning frequency for pipes should be based on tabulating the degree of cleaning required by that pipe after each cleaning interval. For example, if a pipe requires medium to heavy cleaning after an interval of every six months, it may be time to increase the frequency of cleaning from 6 months to every three months. Similarly if a pipe receives a "clear" finding three consecutive times in a cleaning interval, it may be a good idea to move that pipe down to needing a lower cleaning frequency. As of the drafting of this document, the City has not been able to acquire the resources to implement this feature at this time.

The following is a list of tasks and suggestions for inclusion in a comprehensive Operations and Maintenance Program as a part of the SSMP.

- The City of Pomona has developed a Predictive Maintenance Program that includes plans for, planned and scheduled inspection and rehabilitation of their sanitary sewer system. This includes CCTV and proposed hydraulic modeling as part of a comprehensive Sewer Evaluation and Capacity Assurance Plan (SECAP) pursuant to the 2013 SSMP.
  - Pipe CCTV or by staff entry as indicated
    - "Hot Spots" identification in GIS
    - Trend analysis utilizing the cleaning schedule
    - Initial inspection prior to acceptance of CIP or rehab
    - Periodic system re-inspection
    - Detailed inspection of deteriorated areas prior to repair/rehab/replacement
    - Quality control on line cleaning, root cutting, etc.



- *Standardized defect coding system needed*
  - *Checking for pipe condition, depth and/or percentage of concrete spalling, depth of corrosion, pH measurement*
- *Need to Complete Manhole inspections:*
  - *Visual from surface*
  - *Staff entry as indicated for detailed evaluation*
  - *Standardized defect coding needed*
  - *Should also cover: manhole concrete or protective coating condition, shelf condition and material loss, debris, roots, roaches/vermin, crown pH, flow depth of water/diameter of channel, velocity, turbulence, hydrogen sulfide levels*
- *Need to identify and begin database of existing easements from GIS maps and property records, develop a schedule for Easement and Right of Way surface inspections and creating assessments, and integrating into future CIP projects possible relocations*
  - *Checking for vandalism, potential problems due to vegetation, land movement, surface erosion, illegal improvements that limit access, etc.*
- *Lastly, specific section of the 2013 SSMP need to be addressed:*
  - **Section 5.3.2.:** *We have purchased a small amount of chemical for root treatment; will be selecting a site shortly; they have identified some potential locations to date 6840 linear feet treated to date*
  - *Have not implemented a new CMMS program; as an interim step, staff ids working with a firm ID Modelling to develop a reporting program; the program will be able to extract data from the hydraulic model and report on work orders for water and sewer divisions*
  - **Section 5.3.3:** *Only 25% of the manholes in the system were inspected and recorded by Trans Consulting; infiltration was identified when encountered*
  - **Section 5.3.4:** *This section does not cite the contract specification Special Technical Provisions, Section 1170, paragraph 1.5 wherein the the contractor must maintain sewage flows and sewage bypass if necessary*
  - **Section 5.3.5:** *Need to see the latest updates*
- *As the WDR requirements continue to unfold, the City should continuously update their Operations and Maintenance Program. Many of these recommendations have been outlined in the 2013 Sanitary Sewer Master Plan, the results which can be considered as additions or in some cases replacing the current operations and maintenance program.*



## **SECTION 7 - Design and Performance Provisions**

### **D.13 (v) Design and Performance Provisions: :**

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- (b) Procedures and standards for inspecting and testing the installation of new sewers, pumps and other appurtenances and for rehabilitation and repair projects.

### **7.1 Overview**

Development of standards for the design, construction, inspection, testing and acceptance of new, rehabilitated, or repaired portions for the collection system is key in ensuring a safe, and reliable collection system. Even if the City has existing standards in place a comprehensive review of these is required to establish meeting the SSMP criterion.

### **7.2 Purpose**

This requirement will create continuity within the system, preventing inconsistencies from leading to hydraulic deficiencies which can result in a sanitary sewer overflow.

### **7.3 Minimum Requirements**

At a minimum, each enrollee must:

- 1) Develop and implement consistent design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- 2) Develop and implement procedures and standards for inspecting and resting the installation of new sewers, pumps and other appurtenances and for rehabilitation and repair projects.

### **7.4 Evaluation**

***Does the City require consistent design and construction standards for the installation of new sanitary sewer systems and all applicable appurtenances?***

*City Code Chapter 62, Article V, Division 1, from Section 62-391 to Section 62-396 includes the general design and construction requirements for the City's wastewater collection system. The sections include the requirements for sewer connection locations, pipe size, minimum grades, manholes, and construction requirements.*



## Inspecting and Testing

Compliance with the sewer design policy requires the contractor performing work on the City's sewer facilities to be responsible for conducting a CCTV inspection for all new and rehabilitated sanitary sewer systems and other appurtenances and submitting a copy of the CCTV report and inspection documentation to the City's Water/Wastewater Operations Director at least thirty (30) working days in advance of the anticipated date of final construction acceptance. The information provided by the contractor is subsequently reviewed by the City's designated inspector for compliance with City design and construction policies.

### **7.5 Recommendations**

- *City of Pomona should continue review and develop new to reflect the changes in practice and technology. In speaking with staff, they have begun to review new standards as some of the existing standards are at least 30 to 40 years old and are hand drawn. In the interim, they should continue to using their established design and construction standards" for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems with the following considerations:*
- *In Appendix G, Sewer Design Policy and Standards, Section 1.6 – Capacity it says,"New sewer mains 15 inches and smaller in diameter shall be sized to carry the projected peak hour wet weather flow at a depth not greater than half of the inside diameter of the pipe ( $dn/D$  not to exceed 0.50, where  $dn$  is the nominal depth of the water in the pipe and  $D$  is the diameter of the pipe). New sewer mains 18 inches and larger in diameter shall be sized to carry the projected peak hour wet weather flow at a depth of flow not greater than 3/4 of the inside diameter of the pipe ( $dn/D$  not to exceed 0.75)."*
- *Per industry standards, sewers 12 inches in diameter and smaller are designed to carry peak dry-weather flows at  $d/D$  ratios of 0.50 or less; and sewers 15 inches in diameter and larger are designed to carry peak dry-weather flows at  $d/D$  ratios of 0.75 or less. To carry peak wet-weather flows at these same  $d/D$  ratios for peak dry-weather flow appears to be too conservative. Also, there is no standard wet-weather design storm by which to evaluate sewers. If wet-weather flow is to be the stipulated design criteria, then a storm would need to be identified, i.e. a 5-year recurrence interval storm or a 10-year recurrence interval storm, etc. But the same recurrence interval storm can have different combinations of rainfall intensities and durations. Also, even the same recurrence interval storm can cause different wet-weather runoffs into the sewer depending on terrain, i.e. slope, percent impervious, etc.*
- *City of Pomona should continue with existing protocols for the inspection and installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems as outlined in the City ordinance.*
- *It says in Appendix G, Sewer Design Policy and Standards, Section 1-6, "Design calculations shall include calculations of average day, maximum day, and peak hour." However, no City-accepted "general" peaking factors are provided that can be used "in the absence of flow data or other reliable information." Also, the peaking factors are not defined in terms of dry or wet-weather peaking factors. Maximum-day factors are typically not used in calculating peak wastewater flows. A range of residential peak dry-*



weather factors should be provided based on the number of dwelling units in the drainage basins, i.e. 2.0 to 3.0 for 2,000 DUs and less; and 1.5 to 2.0 for over 2,000 DUs.

- It says in Appendix G, Sewer Design Policy and Standards Section 1-7, "In order to minimize the formation of deposits, the minimum grade for sewer mains shall be such as to provide a velocity of not less than two (2) feet per second (fps) when the sewer is flowing full or half full under peak dry weather flow (PDWF) at the time the pipe is placed into service. Additionally, during periods of low flow an actual velocity of 1½ fps should be achieved. Manning's coefficient of roughness "n" shall be assumed to be 0.013 for all types of sewer pipe. The maximum flow velocity shall not exceed eight (8) fps. The standard minimum slope sewer main is 1.0 percent."
- Per industry standards, sewer mains are designed to provide a minimum velocity of 2 feet per second (fps) when the sewer is flowing half full under peak dry weather flow (PDWF), but not when flowing full.

In the 2013 SSMP Appendix C, Operations and Maintenance, there are repair techniques offered to rehabilitate manhole but not lids and frames for inflow defects. Inflow can enter manholes through openings in manhole lids and through defects in the frame. Manholes with such defects that are located in low earthen areas or near paved curbs and gutters are especially prone to inflow. Some methods to rehabilitate manholes for surface inflow defects include sealing the manholes that are in low level areas.

At conferences such as the Tri-State Seminar in Las Vegas, there were repair techniques made to known to attendees. Sprayed on synthetic liners was one of the methods that showed promise for our manholes. Vendors went on to talk about placing a layer of cement over brick manholes was a less costly repair but did not last as long. There should be more discussion of the various repair techniques and some sort of evaluation as to their effectiveness in the next SSMP.

Reset Frame and Raise to Grade. Resetting the frame is a method intended to adjust a frame that has moved horizontally and/or to raise the cover above grade to prevent inflow, mostly in non-paved areas (for example, when a cover is located in a slight depression where ponding of water occurs) and where new pavement work is taking place. The installation involves minimal excavation - only enough to allow replacement of damaged concrete leveling rings and addition of new rings to bring the top of the frame above grade.

- Manhole Pans. Manhole pans fit under the manhole cover and are intended to prevent inflow through holes in the manhole cover. The pans are either HDPE or stainless steel.
- Manhole Covers. Gasketed manhole covers are steel covers with an inset gasket either in the frame or placed between the frame and cover. They are intended to prevent inflow from around the manhole cover. Solid manhole lids without holes are available, as are plugs for the holes. This is currently implemented in new construction where the ribbon gutter is in line with the sewer main as it flows around the manhole where the manhole cover is elevated above the flow line is currently practiced.
- Manhole Risers: Need to include additional discussion on synthetic risers that can be used to raise manholes covers in lieu of concrete ones. They are light weight and are made to sustain truck loading. Another topic raised at the Tri State Seminar.



## **SECTION 8 - Overflow and Emergency Response Plan**

**D. 13 (vi) Overflow Emergency Response Plan** - Each Enrollee shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure an appropriate response to all overflows;
- (c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

### **8.1 Overview**

This element of the SSMP consists of both the contingency plan and the procedures for responding to an overflow event.

### **8.2 Purpose**

Proper procedures must be established and put into practice in order to minimize the negative effects of an SSO. This section requires the implementation of a concise set of procedures that will seek to ensure that all negative effects of an SSO on public health and the environment are minimized. Proper overflow response procedures are one of the main reasons for the development of the WDRs for SSOs.



### 8.3 Minimum Requirements

At a minimum, each enrollee must include in its overflow emergency response plan:

- 1) Proper notification procedures for primary responders and regulatory agencies;
- 2) A program to ensure appropriate response to all overflows. Procedures to ensure prompt notification of appropriate officials or other potentially affected agencies for reporting purposes;
- 3) Procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained;
- 4) Procedures to address emergency operations
- 5) A program to ensure that all steps are taken to contain untreated wastewater and prevent discharge of untreated wastewater to waters of the United States.

### 8.4 Evaluation

***Does the City currently have an Overflow Emergency Response Plan developed and implemented?***

*Yes, the City does have a comprehensive Sewer Overflow Response Plan which was updated in October 2013. This plan will need to be updated in view of many organizational changes that have occurred in the City since 2013.*

### 8.5 Recommendations

*The following sections in the 2013 SSMP, Appendix D are recommended to be updated:*

- *Table 2-3 with regards to the new organizational changes and positions;*
  - *Delete Pomona " Pomona Public Works Director " and replace with "Water/Wastewater Operations Director"*
  - *Delete " Pomona Water/Wastewater Operations Manager" and replace with "Water/Wastewater Operations Director"*
- *Page 41, Sanitary Sewer On-call Response Personnel table needs to be updated and the name and phone number of the Water/Wastewater Operations Director needs to be added*
- *Page 41, Sanitary Sewer On-call Response Personnel table, delete "Pomona Public Works Director" and replace with "Water/Wastewater Operations Director"*
- *Page 41, Sanitary Sewer On-call Response Personnel table, delete "Water/Wastewater Collection System Operations Manager"*
- *Page 53, Sanitary Sewer Overflow Notification List table needs be updated and the name and phone number of the Water/Wastewater Operations Director needs to be added*
- *Page 53, Sanitary Sewer Overflow Notification List table, delete Public Works Director"*
- *Page 53, Sanitary Sewer Overflow Notification List table, delete "Pomona Water/Wastewater Operations Manager" and replace with "Water/Wastewater Operations Director"*



- *Figure 3-2 Communication Plan for SSMP Implementation in the City's current SSMP needs to be updated by replacing the box for "Public Works Director" with a box for "Water/Wastewater Operations Director"*
- *Procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained*
  - *The Overflow Response Plan should continue to be updated and made available to key personnel who are responsible for managing or responding to SSOs. Presentation of this section will be provided to maintenance once a year during a tail gate session. Copies of the City's instruction manuals should be available to field crews and engineers at the office who manage or have the role of preparing SSO reports to regulatory agencies.*
  - *Post the updated Sanitary Sewer Overflow Emergency Response Plan, as currently shown in Appendix D of the 2013 SSMP on the City's Intranet. Posting of public notices of SSOs should occur as soon as practical following the initial response to overflows. Signs should be posted on either side of the point of entry where sewage entered the body of water or public facility and the nearest public access point to that body of water or public facility*
- *Lastly, Section 7.2 of the 2013 SSMP needs to be addressed the following items:*
  - *Need to develop and present a short Powerpoint presentation to field crews; the intent would be not be to train the field staff to clean up the spill but more to contain the flow if possible by setting up berms until wastewater staff can arrive*
  - *Need to verify that the wastewater staff has been presented this section overview in their tailgates; probably need to attend one of those meetings*
  - *Staff has not ordered the emergency spill signs*
  - *Staff needs to continue to conduct annual bypass setup training in the field; the setup was performed in the first part of February 2015; pictures of the layout are attached*





## **SECTION 9 - FOG Control**

**D. 13 (vii) FOG Control Program** - Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. The plan shall include the following as appropriate:

- (a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- (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 SSOs and blockages caused by FOG;
- (d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- (e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- (f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- (g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.



## 9.1 Overview

Under the Order, the City is required to evaluate its service area to determine whether a Fats, Oils, and Grease (FOG) control program is needed. If the City determines that a FOG program is not needed, it must provide justification for why it is not needed. If FOG is found to be a problem, the City must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system.

## 9.2 Purpose

FOG is generated in most types of restaurants and food service establishments during food preparation, food service, and kitchen clean up. If flushed down the drain, FOG can build up in pipes, pumps, and equipment -- causing significant problems in the sanitary sewer system, including line blockages. Blockages can lead to sewer overflows, posing environmental and public health hazards. Understanding and controlling discharges of FOG will greatly reduce potential liability of SSOs and efforts required to keep lines clean.

The key to reducing FOG in the sanitary sewer system includes both a good source control program, as well as preventative maintenance to ensure FOG that does build up within the system is cleaned before significant buildup can occur. Additionally, understanding your collection system and the type of discharges within the service area is paramount to the strategic implementation of a FOG program.

## 9.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Determine if FOG is (or could be) an issue within the service area. If FOG is found not to be an issue, then justification must be provided
- 2) Create a plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- 3) Develop 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;
- 4) Ensure that the appropriate legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- 5) Require the installation of grease removal devices (such as traps or interceptors), including design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- 6) Make sure that the agency has the authority to inspect grease producing facilities, enforcement authorities, and whether the agency has sufficient staff to inspect and enforce the FOG ordinance;
- 7) Identify sections of the sanitary sewer system that are subject to FOG blockages and establish a cleaning maintenance schedule for each section; and
- 8) Develop and implement a source control and/or cleaning program for all sources of FOG discharged to the sanitary sewer system.



## 9.4 Evaluation

### **Does the agency have a FOG problem?**

Yes, however, past SSOs have been a combination of FOG and system related issues. A comprehensive and practical plan will be developed and implemented by the City. Both funding and resources need to be identified and secured to implement this next phase.

Typically, data is provided that can prove or disprove the presence of a FOG issue. Data that may be used to make a determination includes:

- 1) SSO Reports including the cause of blockage;
- 2) Cleaning and other maintenance data that identifies FOG as a potential problem;
- 3) CCTV inspection reports that identify areas or sources of FOG;
- 4) Master list of restaurants that discharge to the sanitary sewer system and that could potentially cause a FOG related problem

### **Does the FOG control program have a plan and schedule for public education to promote the proper disposal of FOG?**

The City has an informal public education program to promote the proper disposal of FOG. Information on proper disposal of FOG and other SSO prevention measures, including installation of backwater valves, house lateral maintenance, etc. disseminated through public events. In fact, one such event took place at the Los Angeles County Fair where the City has set up a booth to handout brochures on FOG and water conservation. The City's has provided information on its home web page by posting the 2013 SSMP and other related sewer documents., The City has not explored the use of radio and television announcements and other aggressive means to get the word out.

### **Does the FOG control program provide for the proper disposal of FOG generated within the Agency's jurisdiction including a list of acceptable disposal sites?**

No. Much like the *Guide for Developing and Updating of Sewer System Management Plans (SSMPs)* prepared in September 2013, this list has to be prepared without the appearance of bias.

### **Is there a FOG ordinance or other legal authority that prohibits the discharge of FOG into collection system?**

The City ordinances have language pertaining to FOG in the sanitary sewer system within the City of Pomona. What is included in the Division 3. Sand and Grease Traps ordinance makes reference to installation, packing, and maintenance of grease traps and grease interceptors.

### **Does the FOG control program require the installation of grease removal devices including design standards and maintenance requirements for grease removal devices?**

The City does have requirements for grease removal devices as part of its ordinance pursuant to Division 3.



**Does the FOG control program require the use of BMPs including record keeping and reporting requirements?**

Yes, the City has requirements for the use of BMPs.

**If required, what are the minimum required BMPs?**

The City requires kitchen and restaurant best management practices to be implemented such as installation and maintenance of grease traps and sand traps

**Does the FOG control program or ordinance provide the authority to inspect grease producing facilities?**

It does not appear that the City ordinance has language for the inspection of grease producing facilities within the City boundaries. The City will be working on the area in the next phase of the SSMP process.

**Does the FOG control program provide the legal authority and ability to enforce the FOG program?**

It does not appear that the City ordinance has language for the enforcement of FOG discharges to the sanitary sewer system within the City boundaries.

**Does the Agency have sufficient staff to inspect and enforce the FOG program or does the agency utilize a contractor for assistance?**

The City does not have enough staff needed to inspect, and enforce a FOG program. The eventual goal was to first establish the program using outside sources. The program would be funded by charges to the establishment. Once established, and after the City gets familiar with the program, they would implement changes to the organization so that in-additional house would take over and enforce the program.

**Has the Agency identified segments of the collection system that are prone to FOG blockages and has an enhanced cleaning program been established for these trouble areas?**

The City has informally identified segments of the sewer system prone to FOG blockages and implemented regular cleaning, however, this has not been reflected on GIS or subjected to a trend analysis. In all of the cases so far, any spills which have occurred in the City's system have been the result of multiple factors not just FOGs accumulations.

**Has the Agency developed source control measures for all sources of FOG that discharge into known trouble areas?**

It does not appear that the City has any hot spots solely resulting from to FOG blockages or has established source control measures in place other than language in the City ordinance. This language describes prohibitions on the discharge of any materials or obstructions that have the potential to clog, obstruct or fill the sewer or will interfere with or prevent the effective use of the sewer system.



## 9.5 Recommendations

The City of Pomona will need to develop and implement a comprehensive FOG program with the requirements described in the WDRs, in addition to the language within the city's ordinance. For this reason, it is important for the City to conduct its own investigation of "hot spots" caused by FOG so that it can begin to enforce the FOG program requirements. The process should begin with a detailed assessment of the sewer system problems. As SSOs occur, they can be included in a GIS system that includes the sanitary sewer system within the City. The following is a list of projects that can be developed utilizing a sewer system GIS:

- *Inventory and Characterize Potential FOG Sources*
  - *GIS Application for the identification of sewer system blockages due to FOG and their potential sources*
    - *Identify and color code sewer collection lines subject to blockage*
    - *Identify and plot all SSOs resulting from FOG blockages*
    - *Development of a GIS based "hot spots" application for regular cleaning with query and reporting capabilities on the frequency of the said cleaning by location/date*
    - *Development of a GIS based "source identification" application to identify and plot potential sources of FOG in "hot spot" areas*
      - *Include query and reporting capabilities to view the current land use, past inspection reports and the condition of grease removal equipment installed at these potential sources:*
        - *Food service establishments (including restaurants, hospitals, nursing homes, grocery stores, caterers and commissaries)*
        - *High density multi-family dwellings*
        - *Residential – single family dwellings*
        - *Food manufacturing (industrial)*
- *Develop legal authority to impose FOG program requirements*
  - *Additional ordinance language, if necessary*
  - *Inspection program*
  - *Jurisdiction's regulatory authority over private and public property*
- *Monitoring and enforcement*
  - *Inspection, utilizing the sewer system GIS*
    - *Based on the "hot spot" source identification application, develop a prioritized inspection schedule to target establishments that are in FOG prone areas*
    - *Inspect food service establishments regularly*
    - *Inspect grease interceptor and grease traps regularly*
    - *Integrating the inspection results into a GIS based Computerized Maintenance Management System*

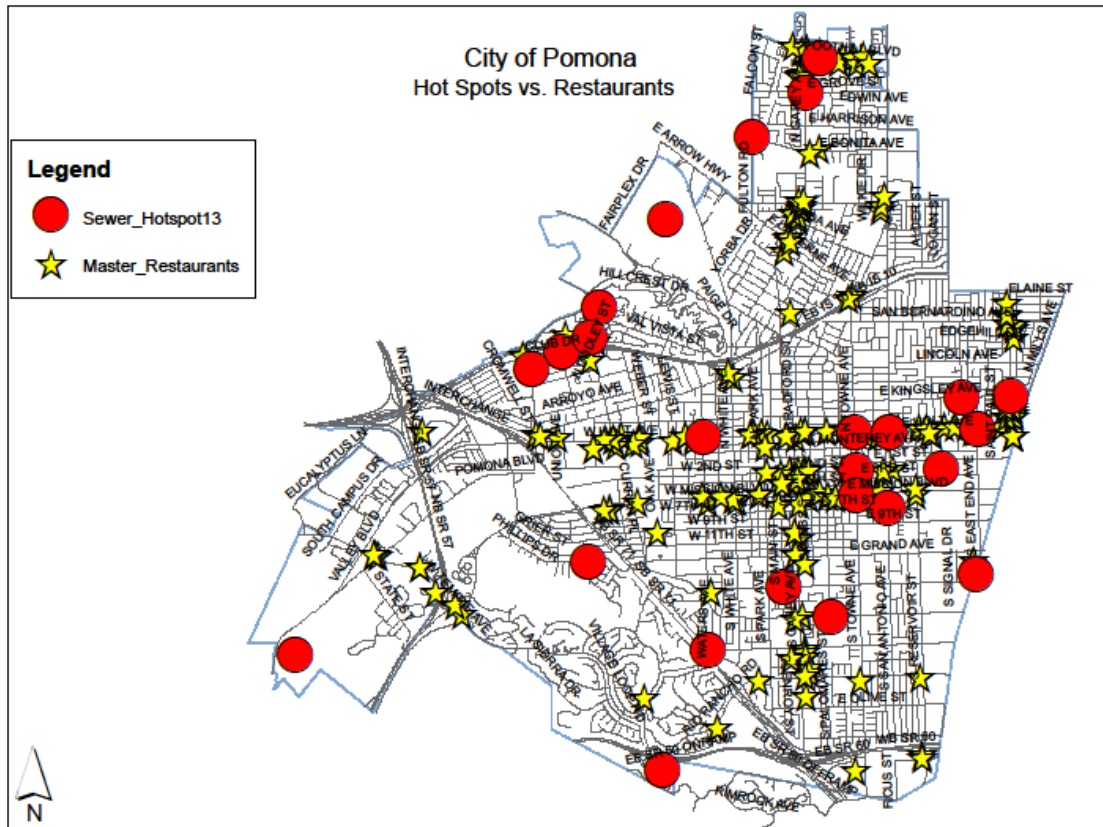


Figure 2: Sewer Hotspots

- Enforcement, utilizing a GIS based Code Enforcement Module
  - Ensure due process within defined legal authority
  - Escalating enforcement structure
- Lastly, specific sections of the 2013 SSMP need to be address the following items:
  - **Section 6.2:** City has initiated an initial survey of Food Service Establishments but it is not complete. Additional surveys will have to be conducted to include schools and convalescent homes.
  - **Section 6.4:** Staff has reached out to public by creating a booth at the Los Angeles County Fair in September 2015; FOG brochures in Spanish and English were handed out by staff; Public outreach: Did not hold the Annual Public Works Fair in 2015; they continue to pass out fliers and other public events
  - The City still does not have a list of acceptable disposal facilities yet; struggling with this since we may be seen as endorsing certain private firms; this is discussed in the guidance manual
  - The City has not yet established standard details for grease trap installations
  - There has been changes to the High Frequency Maintenance Locations (Hot Spots) as repairs are made through the CIP program

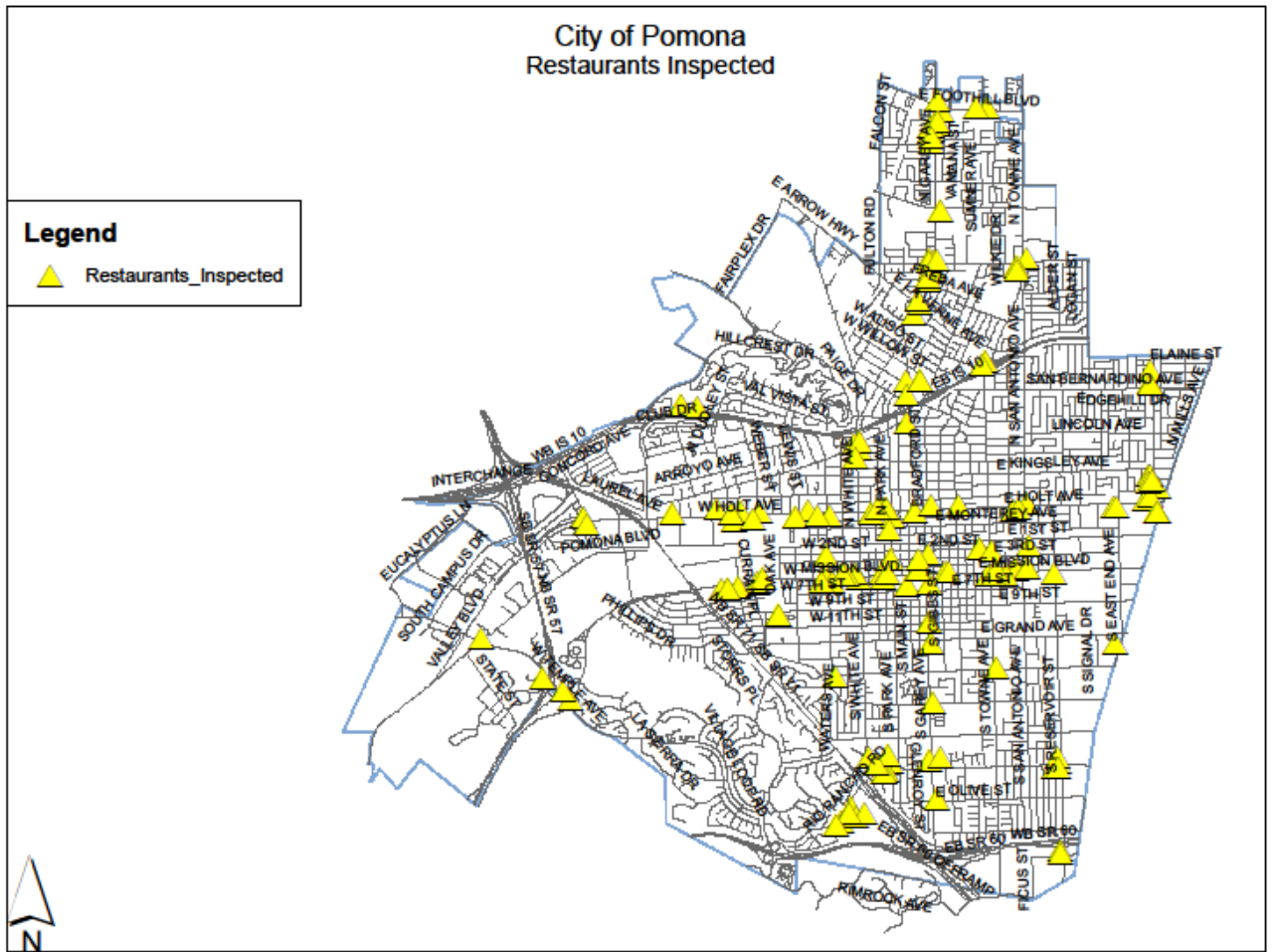


Figure 3: Restaurants Inspected



## **SECTION 10 - System Evaluation and Capacity Assurance**

**D. 13 (viii) System Evaluation and Capacity Assurance Plan:** The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

(a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;

(b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and

(c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.

(d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14





## 10.1 Overview

This element of the SSMP includes several major programs and activities regarding development of a capital improvement plan and hydraulic analysis. Most of the requirements would be satisfied by a recent collection system master plan.

## 10.2 Purpose

An important step in attempting to minimize the amount of SSOs in a given system, one must determine how the system will react to different conditions and stresses. Once this is achieved, City officials can identify areas in need of improvement and prioritize projects for a capital improvement program.

## 10.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Describe the methods used to identify areas of the sanitary sewer system that lack the sufficient capacity to convey an appropriate peak flow;
- 2) Establish consistent design criteria;
- 3) The identification of capacity needs and the approach used to take the results of the capacity evaluation to produce a prioritized list of capacity improvement projects; and
- 4) The development of a project schedule that addresses both condition-related and capacity-related projects.

## 10.4 Evaluation

### ***Has the City had a recent collection system master plan done?***

*No, the City of Pomona has not completed a comprehensive sanitary sewer master plan since 2005. Staff has included the development of a Sewer Master Plan in the 2015 Strategic Plan RFP. In addition to the system overview, population projections, hydraulic model, and CIP program development, the goal is to develop flexible reporting tools for staff. The hope is that we can develop ways to get the word out quicker and more consistently with immediate staff, upper management, and residents. So, in this regard, it is a departure from normal master planning efforts.*

### ***Has the City performed a hydraulic capacity study to identify areas within the system that are contributing to SSOs?***

*The City of Pomona has a hydraulic model that includes 10 inch and larger diameter pipes that was developed for the 2005 Sewer Master Plan. However, these pipes constituted only 15% of the system and therefore another hydraulic modeling encompassing 100% needs to be developed. The RFP for the Strategic Plan will include the development of a sewer hydraulic model that incorporates mains 8" and larger. This model will reflect at least 98% of the City's sewer conveyance system.*

### ***Does the City have an established CIP to address hydraulic deficiencies, including prioritization alternatives analysis, and schedules?***

*The City has adopted a CIP that has been based on the 2005 sewer master plan and the CCTV work performed in 2010. However, the hydraulic modeling to date does not include 75% of the system that were 8 inches in diameter or less, and focused the modeling on 10 inch and larger*



diameter pipes. This potentially omitted 8 inch or smaller pipes that were hydraulically deficient and therefore needed to be addressed in future the CIP projects.

## 10.5 Recommendations

*The following is a summary of our comments and recommendations:*

- 1. A comprehensive sewer CCTV program was conducted in 2010 wherein the entire wastewater system was CCTVd by an outside firm and in-house wastewater crews. These condition assessment footages along with in-house camera work have initiated an on-going annual repair and rehabilitation CIP program.*
- 2. A comprehensive manhole inspection program should be developed to complete the initial condition assessment of the City's manholes. Under the 2010 contract, only 25% of the City's manholes were field inspected. Defective sewer manholes and their appurtenances are one of the biggest sources of Inflow and Infiltration and as such need to be evaluated on a regular basis. Due to pavement subsidence, manholes in the middle of a street can still react as area drains with large amounts of rain runoff entering the manhole through lid and frame openings. Infiltration through manhole walls can also allow a large amount of water into the system.*



CITY OF POMONA  
MANHOLE CONDITION ASSESSMENT FORM

Quadrant #: 4 Inspection Firm: Tran Consulting Engineering MH ID No.: 3048  
 Inspection Date: 6/24/2009 Inspection Time: 9:16 Field Book Page: N27  
 Patch: No Action Inspection Crew: Innerline Engineering Street: COUNTY RD  
 Dispatch Comments: \_\_\_\_\_

| DEFECT     | BROKEN*              | CORROSION*           | ROOTS*               | I/I CODE**           | ATMOSPHERE                          |                                     |
|------------|----------------------|----------------------|----------------------|----------------------|-------------------------------------|-------------------------------------|
| Cover      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | Note: All measurements at MH bottom |                                     |
| Frame      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | OXYGEN                              | <input type="text" value="20.9"/> % |
| Frame Seal | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | LEL                                 | <input type="text" value="0"/> %    |
| Grade Ring | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | H <sub>2</sub> S                    | <input type="text" value="0"/> PPM  |
| Riser      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | CO                                  | <input type="text" value="0"/> PPM  |
| Cone       | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                                     |                                     |
| Wall       | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                                     |                                     |
| Bench      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                                     |                                     |
| Trough     | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                                     |                                     |

\* SEVERITY CODE: 1) MILD: <25% 2) MODERATE: 25-50% 3) SEVERE: >50%  
 \*\* I/I CODE: 1) INFLOW 2) INFILTRATION

| OBSERVATION           | CODE NO.  | CODE   |
|-----------------------|---|--|
| Access:               | <input type="text" value="1"/>                                  | 1) DRIVE, PAVED 2) DRIVE, UNPAVED 3) DRIVEWALK < 30' 4) DRIVEWALK > 30'<br>5) NO MAINT. ACCESS, EASY WALK 6) NO MAINT. ACCESS, DIFFICULT WALK<br>7) ON MAINT. ACCESS, EASY WALK, CONTACT PROPERTY OWNER<br>8) NO MAINT. ACCESS, DIFFICULT WALK, CONTACT PROPERTY OWNER |
| Inspection Type:      | <input type="text" value="2"/>                                  | 1) INTERNAL 2) SURFACE 3) NOT INSPECTED 4) BURIED 5) NOT FOUND   |
| Structure Type:       | <input type="text" value="1"/>                                  | 1) STND 2) CLN OUT 3) IN DROP 4) OUT DROP 5) ROCK TRAP 6) FILLED IN 7) TEE 8) JUNCTION   |
| Location:             | <input type="text" value="1"/>                                  | 1) STREET 2) ALLEY 3) SIDEWALK 4) DRIVEWAY 5) PARKWAY 6) YARD 7) PARKING LOT<br>8) STORM DITCH 9) CREEK BED 10) OPEN SPACE   |
| Surface Type:         | <input type="text" value="1"/>                                  | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) LANDSCAPING 5) NATIVE VEGETATION   |
| Cover:                | Type: <input type="text" value="1"/>                            | 1) PICK 2) CONCEALED PICK 3) GASKETED 4) VENTED 5) STORM 6) 5/8" ALLEN BOLT<br>7) 3/4" ALLEN BOLT 8) PLASTIC 5 BOLT 9) ALFALFA BOLT  |
|                       | Fit: <input type="text" value="1"/>                             | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING   |
|                       | Seal: <input type="text" value="1"/>                            | 1) NONE 2) GASKET 3) SILICONE  |
|                       | Securing: <input type="text" value="1"/>                        | 1) NONE 2) STRAPPING BAR 3) ANGLE IRONS 4) 5/8" ALLEN BOLT 5) 3/4" ALLEN BOLT 6) 5 POINT BOLT<br>7) ALFALFA BOLT 8) 6 POINT BOLT 9) BURIED 10) ASPHALT CAP 11) CONCRETE CAP  |
|                       | Size: <input type="text" value="24"/>                           | DIAMETER IN INCHES   |
| Frame:                | Offset: <input type="text" value="1"/>                          | 1) NO 2) YES   |
| Grade Ring or Riser:  | Type: <input type="text" value="2"/>                            | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) PLASTIC 7) MORTAR 8) LINED   |
|                       | Height (in): <input type="text" value="18"/>                    | IF > 18" ADD COMMENT   |
|                       | Min. Dia. (in): <input type="text" value="24"/>                 | IF < 36" ADD COMMENT   |
|                       | Comment: <input type="text" value="Riser diameter is &lt; 36"/> |  |
| Cone:                 | Type: <input type="text" value="2"/>                            | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED   |
|                       | Shape: <input type="text" value="2"/>                           | 1) CONCENTRIC 2) ECCENTRIC 3) FLAT TOP   |
| Wall:                 | Type: <input type="text" value="2"/>                            | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED   |
|                       | Diameter (in.): <input type="text" value="48"/>                 |  |
|                       | Height (in.): <input type="text" value="50"/>                   | IF <= 36" ADD COMMENT "Calculated in field." IN COMMENT SECTION BELOW.   |
|                       | Comment: <input type="text"/>                                   |  |
| Bench:                | Type: <input type="text" value="5"/>                            | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) LINED  |
| Trough Type:          | <input type="text" value="3"/>                                  | 1) NONE 2) PRECAST 3) POURED 4) VCP 5) PVC 6) BRICK  |
| Steps:                | Type: <input type="text" value="4"/>                            | 1) NONE 2) BAR 3) CAST IRON 4) PLASTIC 5) PLASTIC COATED STEEL   |
|                       | Condition: <input type="text" value="1"/>                       | 1) GOOD 2) CORRODED 3) MISALIGNED 4) BROKEN 5) MISSING 6) UNSAFE   |
| Manhole:              | <input type="text" value="1"/>                                  | 1) NO 2) YES   |
| MH Insp. Depth (ft.): | <input type="text" value="8.67"/>                               | RIM TO BENCH   |
| Surcharge:            | <input type="text" value="0"/>                                  | 0) NONE, IF SURCHARGE EVIDENT, RECORD DEPTH OF SURCHARGE (INCHES)  |
| Height Above Bench    |   |  |

Figure 4: Manhole Condition Assessment Form

3. Flow monitoring data showing basins with high inflow and infiltration (as high I/I is indicative of infrastructure defects) and areas with known problems should be investigated first. Field observations also help to gather information needed to make an informed decision on rehabilitation for manholes.

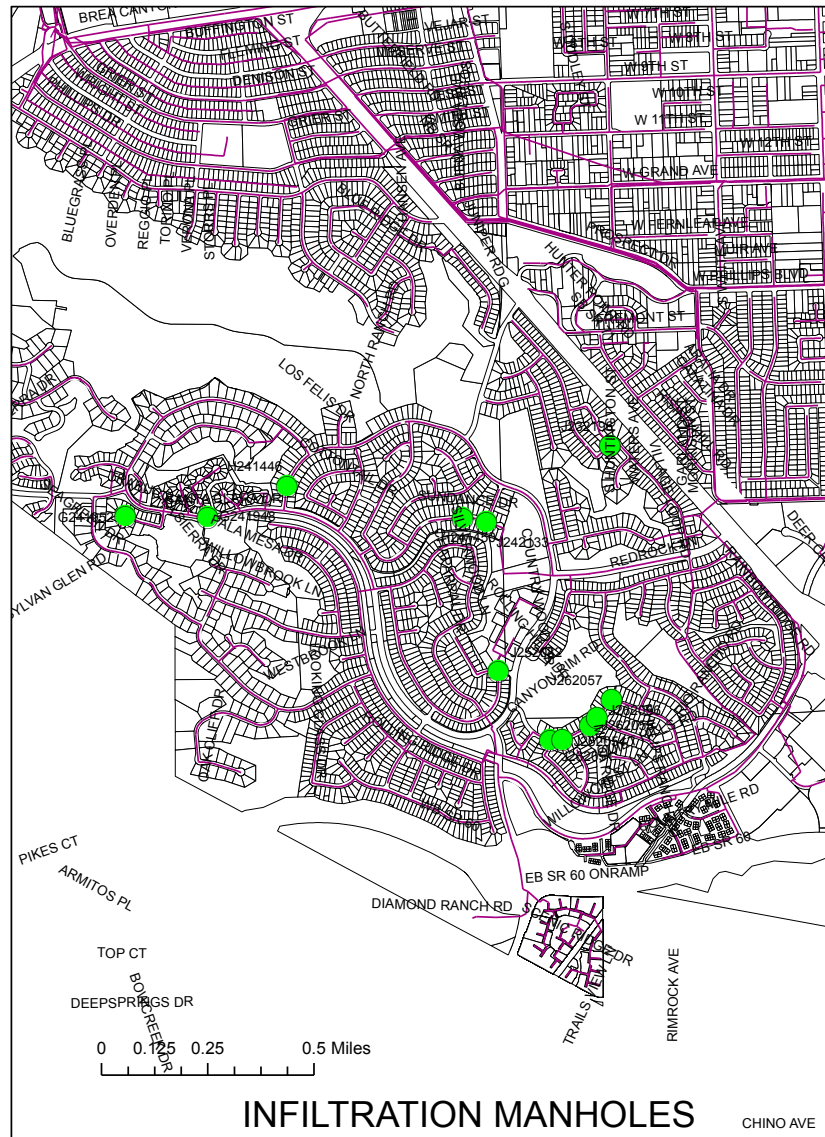


Figure 5: Infiltration Manholes

4. Sewers are no longer replaced based on age alone as the majority (87%) of the system is VCP and VCP can last longer than 50 years depending on soil conditions, loadings, root intrusion, and other issues. Only infrastructure needing replacement should be scheduled in the CIP based on age, breaks, CCTV inspections, defect, and pavement conditions.
5. The City adopted a new General Plan in March of 2014. It would be beneficial to re-evaluate land use and corresponding wastewater generation using information from the City's latest General Plan.



6. Only “major” sewers (primarily those 10 inches in diameter and greater) were included and evaluated in the hydraulic model. This is 47 miles of the 317 miles of gravity sewers in the City’s system, which is 15% of the system. There are 267 miles of 8-inch sewer in the system, which is 75% of the system, which was not included as well as 2.9 miles of 4-inch and 6-inch sewers.
7. All of the sewers should be detailed in the City’s sewer GIS for documentation and operation and maintenance purposes. All sewers should then be imported into the hydraulic model and evaluated in the hydraulic analysis. Smaller sewers have the same likelihood as larger sewers to be over capacity depending on sewer slope relative to peak flows carried in the sewer. In order to demonstrate capacity assurance and to show due diligence in preventing overflows due to hydraulic deficiencies, the entire sewer system should be hydraulically evaluated with the model. If the City captures mains that are 8” or greater in their hydraulic model, it would be sufficient.
8. There is no standard wet-weather design storm to evaluate sewers with, so sewers should be designed to carry peak dry-weather flows within the appropriate d/D ratios, which were developed so sewers would have capacity to carry wet-weather flows safely. This is industry standard criteria. Sewers with diameters 10 inches and greater (15% of the system) were evaluated in the 2005 Master Plan for peak dry-weather flow capacity with a criterion of no surcharging, i.e. d/D ratio of 1.00 or less, which is too high. It is important to assess sewer capacity with appropriate d/D ratios and also to err on the side of being conservative because the LACSD sewers are not modeled, i.e. a free discharge is assumed, and there could actually be backwater from the LACSD sewers during high flow conditions or due to constrictions or obstructions in their system.
9. Sewers with diameters 10 inches and greater (15% of the system) were evaluated in the 2005 Master Plan for wet-weather flow capacity with a criterion of no surcharging greater than 125% of pipe diameter, which is too high for a 2-year recurrence interval storm. No flow level above the top of pipe should be allowed for recurrence-interval storms less than or equal to 5 years.
10. For the 2005 hydraulic model, wet-weather flows were captured at 14 flow metering sites, but there is no reporting of the magnitude of inflow and infiltration (I/I) metered in the associated meter basins. Wet-weather flow monitoring should be used to identify relative I/I in the basins metered because higher I/I is indicative of sewer system defects that let water into the system. Higher I/I basins should then be investigated via sewer CCTV and manhole investigations to identify and rehabilitate the defective infrastructure components. Considering the size of the City’s sewer system, more meters are needed to identify I/I in more areas of the system. This information should then be reported in the master plan and then used to investigate the system where high I/I is occurring.
11. A Sewer Rate Study should be conducted to ensure that the entire cost of the CIPs as well as other elements of WDRs are incorporated. This should include fees for the FOG program, including, equipment replacement, new regulations, inspections and FOG mitigation.



## **SECTION 11 - Monitoring, Measurement, and Program Modification**

### **D.13 (ix) Monitoring, Measurement, and Program Modifications:** The Enrollee shall:

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

#### **11.1 Overview**

It is critical that the City monitors implementation of the SSMP elements, and measures the effectiveness of SSMP elements in reducing SSOs. Effectiveness should be measured by developing and tracking performance indicators on a regular basis. Performance indicators should be selected to meet the goals of the wastewater collection system agency.

#### **11.2 Purpose**

In order to effectively manage programs, performance measures that gauge success should be developed and data to support the findings must be collected. To this end, accurate and consistent data keeping is extremely important for successful sewer system management. It is imperative that the correct data is captured, in a format that is easily extractable, and that operations personnel understand their role in this process. Focus should be placed on performance metrics, components of trend tracking, and bench-marking procedures both internally and externally. Based upon data collected decisions can be made as to changes that may be warranted and needed in order to maximize program efficiencies. Setting up a Monitoring, Measurement, and Program Modification program will allow a community to better manage and implement SSMP programs.

#### **11.3 Minimum Requirements**

At a minimum, the enrollee must:

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



## 11.4 Evaluation

### ***Has the City developed and do they maintain a data management system necessary to collect adequate information regarding their SSMP programs?***

*The City maintains a data management system that tracks program performance so as to report its findings to executive management on sanitary sewer system performance. The Director is in the process of developing a reporting program, known as SEDARU, to make this effort more readily available.*

### ***Was this data management system developed in a manner that collects relevant information, necessary to determine program effectiveness?***

*Yes, it is being developed to report on what is currently happening as well as possible scenarios. The program is expected to be able to extract information from the sewer hydraulic model, financial information, and CIP progress.*

### ***Have data reports been developed, which measure the effectiveness Of SSMP programs?***

*Yes; it does appear that reports have been developed that measure SSMP program effectiveness by establishing KPI such as miles of cleaning and number of SSOs per year.*

### ***Are program indicators and measures, as well as relevant data reports reviewed on a regular basis?***

*The City of Pomona has implemented a cleaning program that targets cleaning of every sewer line segment on an at least 1.5 years basis. The footages cleaned on "dailies" are kept in written and electronic format.. Staff maintains running totals on all of KPIs in an Excel file.*

## 11.5 Recommendations

*The City should continue to develop a reporting program that focuses on collecting data from all relevant sources, which will provide the City with critical information associated with the performance of the City's sanitary sewer system and associated programs. The City should begin to communicate with all relevant agencies on a regular basis (at a minimum monthly) to go over both the progress and performance of all programs, as well as issues that arise during the subject time period.*

*The City has evaluated various Computerized Maintenance Management System (CMMS) to help track all Personnel, Equipment, and Material. One such program that appears to meet their needs is the CityWorks program. Whichever program is chosen, the system must be integrated with GIS to help with trend analysis for Hot Spots, FOG, SSO mapping as well as CIP tracking. Furthermore, a system for communication and data submittals that are associated with SSOs and sewer backups that are reported to the online SSO database should be developed. A matrix of Key Performance Indicators should be developed that would help the City develop its Measurement, Monitoring and Reporting Procedures (MMRP).*

*Lastly, **Section 11.2** should be modified to reflect Mr. Poulsen's new job title.*



## **SECTION 12 - Program Audit Procedures**

**D.13 (x) SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

### **12.1 Overview**

Audit programs are intended to provide controls for ensuring that all programs associated with the SSMP are being implemented as planned and managed appropriately. Audit outcomes should provide information about challenges and successes in implementing the SSMP by evaluating work practices and operations, documentation, procedures records and staff for implementation effectiveness and consistency. The audit will identify any program or policy changes that may be needed to continually improve effective implementation. Information collected as part of an audit should be used in to plan program or procedure revisions necessary to improve program performance.

### **12.2 Purpose**

SSMP audit program development should be developed specifically for the sanitary sewer system, but agency-wide procedures should be incorporated to ensure program sustainability. The audit can contain information about successes in implementing the most recent version of the SSMP, and identify revisions that may be needed for a more effective program. Information collected as part of the Monitoring, Measurement, and Program Modifications program should be used in preparing the audit. Quite often, performance measures and other management indicators are developed, providing a baseline that performance can be measured against. Tables, figures, and charts can be used to summarize information about these indicators. An explanation of the SSMP development and accomplishments in improving the sewer system should be included in the audit, including:

- Progress made on development of SSMP elements, and if the sewer system agency is on schedule in developing all elements of the SSMP;
- SSMP implementation efforts over the timeframe in question;
- The effectiveness of implementing SSMP elements;
- A description of the additions and improvements made to the sanitary sewer collection system in the past reporting year; and
- A description of the additions and improvements planned for the upcoming reporting year with an estimated schedule for implementation.





### **12.3 Minimum Requirements**

The WDR requires that all agencies develop appropriate audit procedures necessary to evaluate the effectiveness of the SSMP, as well as the agency's compliance with all requirements identified in the WDR. The audit must identify any deficiencies in an agency's SSMP programs and include steps to correct these issues. At a minimum, audits must be conducted every two years and a report of the findings must be prepared and kept on file.

### **12.4 Evaluation**

***Has an audit program been developed to ensure programs are being implemented as intended?***

*Yes; this will be the first audit after the 2013 SSMP utilizing WDR approved audit checklist.*

***Are programs developed with a clear understanding of expectations?***

*Yes; discussions take place between Engineering and the Wastewater Supervisor on KPI, new nozzle acquisition, training, etc..*

***Have performance measures been identified and benchmarks established to determine programmatic success?***

*Yes; there are key performance indicators for SSO per mile and line cleaning goals.*

***Do audit checklists exist that focus on compliance as well as continual improvement?***

*Yes; in developing this audit, BACWA Checklist was evaluated as well as other related references*



A Guide for Developing and Updating of  
Sewer System Management Plans (SSMPs)



September 2015

Figure 6: Guide for Developing and Updating SSMP Plans

***Has an individual been assigned to perform the audit?***

Yes; Raul C Garibay

***Is there a process to utilize outside organizations to perform audits?***

Yes; as we have done in 2012, we can go outside to procure the services of an outside firm to conduct an audit. This audit, however, is being performed in-house to reduce operating costs.

***Does the entity performing the audit have enough authority to carry out all necessary data gathering?***

Yes.

***Does your agency's executive management fully support and authorize the audit procedures?***

Yes, the City's management and Council would support and authorize the audit procedures.

***Are audit finding and reports reported directly to agency management?***

Yes.



***Are random interviews conducted throughout the organizations and at all levels within the organizations hierarchy that may provide beneficial information regarding staff procedures and staff's knowledge of those procedures emphasizing identification, problem solving, and prevention opportunities?***

No.

***Does the communication to staff focus on the purpose of the audit to ensure effective staff participation in the audit process, (The audit is of the SSMP implementation, not of individuals)?***

No.

## **12.5 Recommendations**

*The City needs to continue to implement an audit program that addresses the questions identified above. There should be one or two individuals designated internally that are charged with performing these audits on a regular basis. These individuals should report their findings to the LRO and City Council and utilize the results to effect needed changes. Additionally the audit program should address:*

- *Document Control*
- *Training*
- *Targets and Objectives*
- *Data Management*
- *Documented Procedures*
- *Outcomes*



## **SECTION 13 - Communication Program**

(xi) **Communication Program** – The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented. The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee’s sanitary sewer system.

### **13.1 Overview**

Communication programs are often underrated and overlooked. However, an effective communication program may end up being the key element that keeps your organization from missing critical SSMP deadlines. Involving the public early and at appropriate times will help your organization avoid last minute comments that delay approval of your SSMP by your governing body. A quality communication program with satellite agencies will help to minimize negative operational impacts on your plant or collection system.

It is important to identify an individual who will be responsible for development of your communication program. Larger agencies will typically have Communications and Media Officers or Public Information Officers who are appropriate to lead the development of the communication program. Smaller agencies who don’t have these staff in-house should look to those within the agency who have exhibited strong writing skills, public speaking skills, experience with customer interface, or have successfully completed controversial projects. A self-assessment and rough timeline follow to help you on your way to a successful communication program!

### **13.2 Purpose**

Identifying key stakeholders and key issues, and thinking about how various stakeholders might react is the first step to developing a communication plan. Understanding what elements of an SSMP they will be most concerned with, is one of the many potential considerations that an agency may identify. Involving the right stakeholders on potentially controversial issues as early as possible is important to the success of any new program. Emphasizing collaboration and shared goals to reach a workable solution will not always ensure buy off, but will promote ownership and understanding. Avoiding proper outreach efforts for controversial issues in the hope that interested parties won’t catch on usually backfires. These issues should be considered when developing a communication program

### **13.3 Minimum Requirements**

- a) The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.



- b) The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

#### 13.4 Evaluation

**Have resources necessary to solicit and incorporate input on each phase of your SSMP (development, implementation, and performance), as well as document your outreach, efforts been identified?**

*It does not appear that the above has been completed.*

**Have a lists of stakeholders who will be interested in each phase of your SSMP been developed?**

*It does not appear that a list was established. However, the residents and the City Council have been made aware that the City won recognition as the best Mid-Sized Wastewater Collection System in the State of California in 2014. This award was the result of a statewide competition with other sewer agencies via the CWEA organization.*

**Have key milestones in each phase of your SSMP when stakeholder input would be most useful and effective been created?**

*Based upon information provided by the City, it does not appear that the above has been completed.*

**Has a convenient way for your stakeholders to provide input at appropriate milestones during each phase of your SSMP been identified?**

*Based upon information provided by the City, it does not appear that the above has been completed.*

**Have all tributary and/or satellite systems to your organization's sanitary sewer system been identified?**

*Yes, those satellite agencies include the city of La Verne and the City of Claremont, Pomona Unified School District, and Cal-Poly Pomona University.*

**Has an individual within your organization who is responsible for interface with satellite systems been identified?**

*Yes: Raul Garibay.*

**Has a list of key information you would like to communicate to satellite systems, as well as key information you would like them to communicate to your organization, been developed?**

*Yes; there were attempts to meet with the City of Claremont, City of La Verne and Cal-Poly Pomona. Staff followed up with verbal and face-to-face discussions with each agency.*



### 13.5 Recommendations

*Develop a communication program that addresses the above evaluation questions. Additionally, the City may want to consider addressing the following issues:*

- Identify resources necessary to solicit and incorporate input on each phase of your SSMP (development, implementation, and performance), as well as document your outreach efforts.*
- Identify key community stakeholders and key issues that various stakeholders may be interested in and/or concerned with.*
- Make sure to involve the right stakeholders on potentially controversial issues as early as possible. Emphasize collaboration and shared goals to reach a workable solution.*
- Create a list of key milestones in each phase of your SSMP when stakeholder input would be most useful and effective.*
- Create a convenient mechanism for stakeholder input. Additionally, key considerations, while developing a communication program include:*
- Continue to develop of a variety of communication methods, including newsletters, public meetings, web pages, and public service announcements. Different agencies will find that different communication methods are effective. Look for a method that reaches the desired audience at a reasonable cost.*
- Consider joint efforts to develop a website with other agencies or professional organizations and share costs. The website could contain general information about the new Waste Discharge Requirements and SSMP components provide space to make documents available for public review, and contain contact, meeting times and locations, and other agency-specific information.*
- For communication with other satellite agencies, continue regular coordination meetings, annual surveys for changes in their system, and/or web pages devoted to satellite agency issues.*
- Include a copy of latest communication between the City and staff regarding the request to take over the force mains for the other sewer lift stations.*



## Appendicies

In addition to the updates and/or deletions from the 2013 SSMP, the following Appendicies items need review and possible updating:

- **Appendix A, Excerpts for Pomona's City Code:** No change required
- **Appendix B, Recommended Legal Authority:**
  - Need to review and move forward with making changes to the City Ordinance
  - The definitions provided in the City Ordinance need to be updated
- **Appendix C, City of Pomona Operations and Maintenance Program:**
  - Not much discussion on manhole inspections; the only record of such inspection was performed by Trans consulting and that only covered 15%; need to talk about what will be done in the future to bring that up to a larger and reasonable inspection ceiling
  - Need to develop a program for identifying and recording sewer easements; especially those that are deemed in accessible; need to put together a schedule for doing this work; who knows, as a result of finding these easements, it may require or be in the best interest of the City to relocate the facilities in its entirety
  - Talk about recent exposure to new repair technologies at the Tri State Seminar; especially the joint repair in place
  - It does not appear that the equipment and material inventory lists have been updated
  - **Figure 12-1:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
- **Appendix D, City of Pomona Sanitary Sewer Overflow Emergency Response Plan:**
  - **Table 2-3:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment B, Sewer Service On-Call Response Personnel:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment E, Sanitary Sewer Overflow Notification List:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment G, Possible Methods for Estimating Spill Volume:** Based upon the presentation at the last Tri-State Seminar, the City's methods do not include the bucket method; different ways to measure; point is to come up with ways to confirm spill number
- **Appendix E, City of Pomona's Fats, Oil, and Grease Control Program Characterization Study:**
  - **Page 8:** Remove reference to the Utility Services Director and replace with the Water/Wastewater Operations Director, Darron Poulsen



- **Appendix F, City of Pomona Fats, Oil, and Grease Control Program:**
  - No formal program has been developed yet
  - Talk about the initial inspection list of FSEs
- **Appendix G, City of Pomona Sewer Design Policy and Standard Drawings:**
  - **Section 4.2**, Talk about the in place joint repair system from the Tri-State Seminar that places a “packer type sleeve” in the pipe; also include the presentation from Mr. Badgley and the application of polyethelene lining to perform manhole repair
  - For the 2018 SSMP, the Standard Drawings that have been adopted since the 2013 SSMP need to be included
- **Appendix H, Sewer Lift and Force Main Transfer:** Working with the LACSD, they have been working with the LACSD to turn over all of the remaining force mains; staff has been in discussion to involve them in the design of duplicate force mains to ensure of an eventual transfer of force mains for the remaining Pump Stations.
- **Appendix I, WEF Flyers, Council Presentation, PW Week:**
  - Need to include pictures of the regional Award as well as the State award; maybe be good to provide the picture of the City being noted or recognized in San Diego
- **Appendix J, 2010 and 2012 SSMP Audits:** No change required; for the 2018 SSMP, the 2015 and 2017 audits should be inserted here
- **Appendix K, Satellite Agreements:** No change required

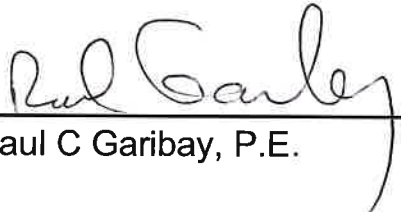


# Audit Report of the City's 2013 Sewer System Management Plan (SSMP) for Waste Discharge Requirements Compliance

December 2017



City of Pomona  
148 North Huntington Street  
Pomona, California 91768

  
Raul C Garibay, P.E.

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Raul C Garibay, P.E.



## ACKNOWLEDGEMENT

The material assembled in this report was gathered through the initial kick-off meeting and subsequent request for information from the City of Pomona (City). Additionally, supplemental information was provided by the City following the Workshop held at the City. The City would like to extend sincere thanks to the following staff from the City of Pomona who provided information for the preparation of this report. These staff included: Raul Garibay and Ishmael Lopez.

## LIST OF ACRONYMS

BMP - Best Management Practice  
CCTV - Closed-Circuit Television  
CIP - Capital Improvement Program  
CIWQS - California Integrated Water Quality System  
CMMS – Computerized Maintenance Management System  
CWC - California Water Code  
CWEA – California Water Environment Association  
DS – Data Submitter  
FOG - Fats, Oils, and Grease  
FSE – Food Service Establishments  
GIS - Geographic Information Systems  
I/I - Infiltration/Inflow  
KPI - Key Performance Indicator  
LACSD - Los Angeles County Sanitation Districts  
LRO - Legally Responsible Official  
MMRP - Mitigation Monitoring and Reporting Program  
MRP - Monitoring and Reporting Program  
NOI - Notice of Intent  
NPDES - National Pollutant Discharge Elimination System  
OES - Office of Emergency Services  
O&M - Operations and Maintenance  
PLSD – Private Lateral Sewage Discharge  
PDWF - Peak Dry Weather Flow  
PWRP - Pomona Water Reclamation Plant  
RFP – Request for Proposal  
RWQCB - Regional Water Quality Control Board  
SECAP - Sewer System Evaluation and Capacity Assurance Plan  
SSMP - Sanitary Sewer Management Plan  
SSOs – Sanitary Sewer Overflows  
SWRCB - State Water Resources Control Board  
VCP - Vitrified Clay Pipe  
WDR - Waste Discharge Requirements  
WRD – Water Resources Department



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## Executive Summary

### Background

The City of Pomona is conducting this 2017 Audit Report to remain in compliance with the Waste Discharge Requirement (WDR).

This report has been developed based on the discussions with City staff. It is also based on a comprehensive review of all the internal SSMP related documents:

- 2008 and 2013 SSMPs
- 2005 Sanitary Sewer Master Plan
- 2010 and 2015 Internal City Audits
- 2012 Gap Analysis
- City Ordinances, and
- Pomona Standard Drawings.

A detailed review and section by section comparison between where the City is and what it needs to do to become compliant with the WDR order is shown in the following sections.

### Summary of Findings

The City has been proactive in its operation and management of its sanitary sewer system and its following of the WDR regulations. In October 2013, the City completed and adopted its latest Sanitary Sewer Management Plan (SSMP) and in 2015 the City performed its first bi-annual self-audit.

Based on the WDR's requirement, the City has set the following eight goals for meeting the minimum requirements of the Order:

1. Proper management, operation, and maintenance of all parts of the system;
2. Reduced occurrence of and potential for SSOs;
3. An effective FOG control program;
4. Assurance of adequate capacity to convey peak wastewater flows
5. A current long-range planning and improvement plan;
6. Compliance with all regulatory requirements;
7. Protection of the public's health and safety; and
8. Effective public information and education efforts.

Based on an overall review of the City's 2013 SSMP, Sewer Master Plan, discussions with the Wastewater Maintenance Section, and a review of all other documents, it appears that Goals 1, 5, 6, 7, and 8 have complied with the WDR requirements. Goals 3 and 4 have been initiated by the City but still need to be developed and implemented.

- a) The City has an updated organization chart for the WDR implementation purposes and also updated the CIWQS database accordingly. This includes designating the Water Resources Director (WRD) as the Legally Responsible Official (LRO). The City also delegated some of its LRO's responsibilities to other individuals such as the Wastewater Collection System Supervisor but it is important to assign the LRO designation to an individual that by title and code has the final say on all administrative and fiscal activities of the department responsible for the sanitary sewer system. After coordinating with



CIWQIS, it seems that the City needs to upgrade its LROs and Data Submitters list as some people have either retired, left the City, or are new hires.

- b) Over the past couple of years, the City has seen an increase in SSOs. The staffing for the Wastewater Section underwent some significant fluctuations in staffing levels and as a result was not able to do their normally aggressive maintenance schedule. A posting taken from the CIWQIS is included in the Appendicies.
- c) Additionally, there are several ordinances that are recommend be added to the City's code centralizing the role of the WRD in WDR related codes and giving him enforcement abilities in areas such as Fats, Oils, and Grease (FOG) compliance.
- d) City needs to add other ordinances that would strengthen City's overall municipal code in WDR enforcement, compliance, and definitions. These include adding sections addressing Infiltration/Inflow, stormwater, design issues and standards, and FOG.
- e) In terms of overall Operations and Maintenance, the City has been leveraging its GIS technology more by the use of automated GIS Applications both for field use and office use. City of Pomona should utilize a Predictive Maintenance Program including plans for, planned and scheduled inspection and rehabilitation of its sanitary sewer system. These would include "Hot Spots" identification in GIS and Trend analysis utilizing the cleaning schedule. City has done a good job establishing Key Performance Indicators (KPIs) for cleaning its sewer system. To this end, the City has been able to acquire tablets for field personnel. In doing so, they have been able to perform wireless updates to reflect work done in the field using *Sedaru®*. Additional work needs to be done to store and link videos to the mains created in the field. This will require a GIS application that connects both the as-built and the CCTV video to each sewer line will streamline functionality for City's staff. Additionally this application could also be utilized on a tablet by field staff to red line and relay field updated to City staff on a regular basis.
- f) The City should develop and adopt a comprehensive FOG program. They have conducted inspections on some of the restaurants in the area by consultant Charles Abbott and Associates, Inc..
- g) The City should migrate towards implementing a GIS based Computerized Maintenance System (CMMS) for all its work orders and to efficiently and automatically track all personnel, equipment, and material. Also, given that the Public Works Department is also reviewing potential CMMS system, the hope is that both departments can find one common program. In the interim, they are in the process of developing and implementing the software *Sedaru®* which will make operations reporting much more efficient.
- h) Under the City's 2017 Strategic Plan, a new comprehensive Sanitary Sewer Master Plan that incorporates a new hydraulic model of 8" pipelines or larger, has the latest population data, and incorporates the latest General Plan updates is being developed. Some preliminary layouts of the system are included in the Appendicies.



- i) The City has hired a financial consultant (Rafetillius) to develop and adopt a new Sewer Rate Study that takes into account the cost of implementing the WDR program including the revised CIP, equipment reserves, FOG Program, additional public outreach, etc.
- j) The City currently has a construction contract wherein main replacement and/or spot repairs are being completed. The Engineering staff, working with the wastewater section, is in the process developing a scope of work in hopes of releasing a new “Red Flag” sewer repair/replacement contract later this fiscal year. The goal is also to include some manhole repair to address intrusion issues.
- k) The City should continue to develop a program that focuses on collecting data from all relevant sources, provides the City with critical information associated with the performance of the City’s sanitary sewer system and associated programs. This system needs to be integrated with GIS to help with trend analysis for Hot Spots, FOG, SSO mapping as well as CIP tracking. Furthermore, a system for communication and data submittals that are associated with SSOs and sewer backups that are reported to the online SSO database should be developed. If necessary, a matrix of additional Key Performance Indicators should be developed that would help the City develop its Measurement, Monitoring and Reporting Procedures (MMRP).
- l) The City should develop an audit program that addresses the following:
  - o Document Control
  - o Training
  - o Targets and Objectives
  - o Data Management
  - o Documented Procedures
  - o Outcomes
- m) As part of the Strategic Planning process, a SWOT Analysis is being performed on the Internal and External Communication aspects of the Department with the goal of developing and implementing a comprehensive public communication and educational program. A copy of the SWOT Matrices for Communication is included in the Appendices.



## **SECTION 1 – Introduction**

This audit report is a means of examining systemic factors that have contributed to, or caused, a gap between the current state of the system and the future and desired state outlined in the WDR compliance requirements. The audit report analysis process includes an in-depth analysis of the factors that have created the current state, laying the groundwork for improvement planning. This approach ensures that the system improvement process does not jump from identification of problem areas to proposing and implementing solutions without first understanding the conditions that created the current state.

### **1.1 Service Area and Sewer System**

The City of Pomona is located in Los Angeles County approximately 35 miles east of downtown Los Angeles, borders San Bernardino County's western boundary and is just 5 miles north of Orange County. The City encompasses approximately 23 square miles and serves approximately 159,810 residents. The City incorporated in January 1888, became a charter city in March 1911, and is the seventh-largest city in Los Angeles County based upon the 2010 census.

The wastewater collection service area includes incorporated areas within the City limits and a limited area outside the City limits. The City collects and conveys wastewater from the service area for treatment by the Los Angeles County Sanitation Districts (LACSD). Local City sewer mains discharge to several trunk sewers owned and maintained by the LACSD that run through the City.

The City is dedicated to improving the condition and performance of its wastewater collection system and reducing the occurrences of SSOs. Development and implementation of a wastewater collection system operations and maintenance (O&M) program serves to ensure that the wastewater collection system is routinely and properly maintained in a manner that minimizes failures and extends the longevity of the system.

### **1.2 Regulatory Overview**

The State Water Resources Control Board (State Water Board) adopted Water Quality Order 2006-0003, on May 2, 2006, requiring all public agencies that own sanitary sewer collection systems greater than one mile in length to comply with the Statewide General Waste Discharge Requirements (WDR) for Sanitary Sewer Systems. All public agencies must apply for coverage by November 2, 2006, by completing the notice of intent (NOI) and legally responsible official (LRO) forms that the State Water Board distributed. The City of Pomona has completed the NOI and is within the regulatory time frames.

Section 3.2.4 Authorized Representatives of the 2013 SSMP requires the following modification to make it current:

- The Water Resources Director Darron Poulsen is the City's Primary Legally Responsible Official (LRO) at (909) 620-2253 and the authorized representative registered with the State of California to officially sign and certify SSO reports submitted via the California Integrated Water Quality System (CIWQS).
- The City has also identified the following staff as alternate LROs:
  - Ishmael Lopez, Wastewater Collection System Supervisor (909) 802-7491
  - Raul Garibay, Supervising Water Resources Engineer (909) 620-2239
  - Gary Mathews, Water Resources Operations Manager (909) 620-2255





- The City has also identified the following staff as Data Submitters:
  - Ishmael Lopez, Interim Wastewater Collection System Supervisor (909) 802-7491
  - Romell Eutesy, Wastewater Maintenance Technician III (909) 620-2251
  - David Weaver, Wastewater Maintenance Technician III (909) 620-2251
  - Julie Carver, Environmental Program Supervisor, (909) 802-7491

The intent of the WDR is to provide consistent statewide requirements for managing and regulating sanitary sewer systems throughout California. The State Water Board recognized a need to provide this consistent regulatory measure because many of the Regional Water Boards were beginning to implement similar measures inconsistently throughout the State, which was creating confusion in the discharger community. The State Water Board believes that providing a consistent regulatory measure that identifies regulatory expectations and comprehensive sanitary sewer overflow data will ultimately yield better collection system management and performance.

There are three major components to the WDR, including:

- Sanitary Sewer Overflow (SSO) Prohibitions;
- Sanitary Sewer Management Plan (SSMP) Elements; and
- SSO reporting.

While there are many other relevant components and findings within the WDR, the major components identified above represent most of the State Water Board's regulatory expectations for the implementation of the WDR. This regulatory audit is intended to provide an analysis of the current programs and practices within the City that address the above issues. This document will provide recommendations to ensure the development of appropriate SSMP programs and an appropriate time schedule necessary to comply with the WDR.

### 1.3 Prohibitions

Section C of the WDR identifies and prohibits SSOs that results in a discharge of untreated or partially treated wastewater to waters of the United States and/or creates a nuisance as defined in California Water Code (CWC) Section 13050(m) is prohibited. CWC section 13050, subdivision (m), defines nuisance as anything which meets **all** of the following requirements:

- a) Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c) Occurs during, or as a result of, the treatment or disposal of wastes.

Since the State Water Board has not specifically defined SSOs that are subject to this prohibition and criteria for determining whether or not an SSO violates the above prohibition, the State and/or Regional Water Board will consider potential violations on a case-by-case basis. In general however, if an SSO results in a discharge to a surface water or drainage channel, the Water Board will consider this a discharge to Waters of the US. Additionally, if an SSO reaches an enclosed storm drainage pipe, and the SSO was not fully contained, captured, and pumped back into the sanitary sewer system, the Water Board will generally assume that the SSO



reached a water of the US. In both cases, the SSO will probably result in a violation of the WDR prohibition.

Determining whether an SSO created a nuisance is even more problematic and subjective. Again, since the State Water Board has not specifically defined SSOs that are subject to the nuisance prohibition and criteria for determining whether or not an SSO is in violation of this prohibition, the State and/or Regional Water Board will consider violations on a case-by-case basis.

In both cases, while reporting SSOs, determining whether or not the SSO violated the prohibition is not up to the reporting Agency. It is the enforcement agency's responsibility to determine compliance with the WDR.

#### **1.4 SSO Reporting**

WDR finding number 9 states:

Both uniform SSO reporting and a centralized statewide electronic database are needed to collect information to allow the State Water Board and Regional Water Quality Control Boards (Regional Water Boards) to effectively analyze the extent of SSOs statewide and their potential impacts on beneficial uses and public health. The monitoring and reporting program required by this Order and the attached Monitoring and Reporting Program No. 2006-0003-DWQ, are necessary to assure compliance with these waste discharge requirements (WDRs).

Furthermore, the State Water Board Fact Sheet states:

SSOs can be distinguished between those that impact water quality and/or create a nuisance, and those that are indicators of collection system performance. Additionally, SSO liability is attributed to either private entities (homeowners, businesses, private communities, etc...) or public entities.

Although all types of SSOs are important to track, the reporting time frames and the type of information that need to be conveyed differ. The Reporting Program and Online SSO Database clearly distinguish the type of spill (major or minor) and the type of entity that owns the portion of the collection system that experienced the SSO (public or private entity). The reason to require SSO reporting for SSOs that do not necessarily impact public health or the environment is because these types of SSOs are indicators of collection system performance and management program effectiveness, and may serve as a sign of larger and more serious problems that should be addressed. Although these types of spills are important and must be regulated by collection system owners, the information that should be tracked and the time required to get them into the online reporting system are not as stringent.

Obviously, SSOs that are large in nature, affect public health, or affect the environment must be reported as soon as practicable and information associated with both the spill and efforts to mitigate the spill must be detailed. Since the Online SSO Database is a web based application requiring computer connection to the internet and is typically not as available as telephone communication would be, the Online Database will not replace



emergency notification, which may be required by a Regional Water Board, Office of Emergency Services, or a County Health or Environmental Health Agency.

In order to implement the above vision, the State Water Board has developed a web based database that will be used to report all SSOs. This online spill reporting system is hosted, controlled, and maintained by the State Water Board. The web address for this site is <http://ciwqs.waterboards.ca.gov>. Included in the Appendices are snap shots of the CIWQS web sites showing Pomona's activities.

This online database is maintained on a secure site and is controlled by unique usernames and passwords. Because the City has been enrolled into the WDR, and has identified Legally Responsible Officials (LROs), the State Water Board has issued both a user name and password to each LRO and notified the individuals of this information.

These accounts will allow controlled and secure entry into the SSO Database. Additionally, within thirty (30) days of receiving an account and prior to recording SSOs into the SSO Database, all Enrollees must complete the "Collection System Questionnaire", which collects pertinent information regarding an Enrollee's collection system. The "Collection System Questionnaire" must be updated at least every 12 months.

All reports required by this Order and other information required by the State or Regional Water Board shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, as either a principal executive officer or ranking elected official, or by a duly authorized representative. For purposes of electronic reporting, an electronic signature and accompanying certification, which is in compliance with the Online SSO database procedures, meet this certification requirement.

All reporting requirements are described within the Monitoring and Reporting Program (MRP) that was adopted by the State Water Board Order, along with the WDR. The MRP is also attached to this document in Appendix A.

California Health and Safety Code section 5411.5, states that:

Any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

California Water Code section 13271, also requires any SSO greater than 1,000 gallons that is discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the Office of Emergency Services as soon as:

1. That person has knowledge of the discharge,
2. Notification is possible, and
3. Notification can be provided without substantially impeding cleanup or other emergency measures.



## **SECTION 2 – Background**

The City operates its own wastewater collection system and associated infrastructure facilities within the City limits. The City's Water Resources Department's vision is responsible for the operation and maintenance of an extensive wastewater collection system and is tasked with ensuring proper and efficient operation of the system. The City provides sewer service throughout the City and to a limited area outside the City limits. The City's wastewater collection system consists of approximately 317 miles of gravity sewer, four (4) pump stations, 1.4 miles of force mains, 6,360 manholes, and two (2) siphons. The City's Sewer System Map is included in the Appendices.

Sewage collected by the City's wastewater collection system is conveyed to the Pomona Water Reclamation Plant (PWRP) for treatment and disposal under the authority of the Los Angeles County Sanitation District (LACSD). The four sewage pump stations are now owned, maintained and operated by the LACSD under the terms of a **CSD C#47 40, December 18, 2012** contract.

An SSO is defined by the WDR as any overflow, spill, release, discharge, or diversion of untreated or partially treated wastewater from a sanitary sewer system, including:

- Overflows or releases of untreated or partially treated wastewater that reach waters of the United States.
- Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States.
- Wastewater backups into buildings and on private property caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

SSOs may cause a public nuisance, particularly when raw wastewater is discharged to areas having high public exposure, such as streets or surface waters used for drinking, fishing, or body-contact recreation. SSOs may pollute surface or ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters.

Agencies in California that own sanitary sewer systems and experience SSOs are required to enter the SSO information into California's Integrated Water Quality System (CIWQS) database-the SWRCB's information management system for regulatory and water quality data reporting. In addition, SWRCB requires that agencies notify the State Office of Emergency Services (OES) within 24 hours of any spill that exceeds 1,000 gallons.

In summary, the WDR is intended to:

- Provide a consistent and unified statewide approach for the reporting and database tracking of SSOs.
- Establish consistent and uniform requirements for SSMP development and implementation.



- Facilitate consistent enforcement of the WDR regulation and violations.

There are three categories of SSOs:

- o Category 1—A discharge that equals or exceeds 1,000 gallons and results in a discharge to a drainage channel, surface water, or drainpipe that was not fully captured and returned to the sanitary sewer system; and
- o Category 2—A discharge that is under 1,000 gallons, or does not discharge to a drainage channel or surface water, or was captured and returned to the sanitary sewer system.

Category 3 – All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition.

Private Lateral Sewage Discharge – Discharges of untreated or partially treated wastewater resulting from blockages or other problems **within a privately owned sewer lateral** connected to the enrollee’s sanitary sewer system or from other private sewer assets. PLSDs that the enrollee becomes aware of may be **voluntarily** reported to the SSO Database.

Capacity assurance is at the heart of the WDR. The SWRCB’s WDR requires the preparation of SSMPs, while implementation of SSMPs is the responsibility of the nine Regional Water Quality Control Boards (RWQCBs). The SSMP consists of a set of documented plans to address how a wastewater collection system conducts business management, funding, design, operations, maintenance, and emergency response. The System Evaluation and Capacity Assurance Plan (SECAP) element of the SSMP includes evaluation of peak flows, design criteria, and capacity enhancement measures, and a schedule with planned completion dates of capital improvements.

Goals of the SSMP are to:

- Properly manage, operate, and maintain all portions of the agency’s wastewater collection system;
- Provide adequate capacity to convey peak wastewater flows;
- Minimize the frequency of SSOs;
- Mitigate the impacts that are associated with any SSO that may occur; and
- Meet all applicable regulatory notification and reporting requirements.

The SSMP prescribes specific milestones that relate to the specific elements required in the WDR:

1. Goals,
2. Organization,
3. Legal Authority,
4. Operations and Maintenance Program,
5. Design and Performance Provisions,
6. Overflow Emergency Response Plan,
7. Fats, Oil and Grease (FOG) Control Program,



8. System Evaluation and Capacity Assurance Plan (SECAP),
9. Monitoring, Management, and Plan Modifications,
10. SSMP Program Audits, and
11. Communication Program.

An SSMP program audit must be conducted at least every two years, and the audit report must be kept on file by the City staff. Successful implementation of an SSMP and compliance with the WDR could result in significant cost-savings to the City and its residents.

This report includes an analysis of the WDR regulation and the City's opinion of its current compliance status for each important element of the regulation.



## **SECTION 3 - Goals**

**Section D.13(i) - Goal:** The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.

### **3.1 Overview**

This section describes the goals of the Sewer System Management Plan (SSMP), which is to provide a documented plan that describes all collection system activities and programs employed by an agency to ensure proper management of all collection system assets. Implementing an SSMP will ensure proper management, operation, and maintenance of all parts of the sanitary sewer system, ultimately helping to reduce and prevent SSOs, as well as mitigate any SSOs that do occur including meeting all applicable regulatory notification and reporting requirements.

Commitment to continual improvement will also ensure that the SSMP is both a living and sustainable document that is continually updated, revised, and tailored towards the City's needs. The City is required to comply with the "State Water Resources Control Board (SWRCB), Order No. 2006-0030 DWQ" (Order) on General Waste Discharge Requirements for publicly owned sewage collection agencies having more than one mile of collection pipelines.

### **3.2 Purpose**

This element describes the City's stated goals of the SSMP and is intended to clarify the City's desired level of service that it is providing to its customers. Typically, high level statements regarding the overall management of a system includes a vision and mission statement, as well as a statement of short and long term goals.

THE MISSION STATEMENT is the first step in the planning process to identify overall functions or missions of the organization. This broad statement of purpose is commonly known as the mission statement.

THE VISION STATEMENT is a clarifying phrase that states where the City is heading. It helps set the course of future decisions and direction.

A STATEMENT OF GOALS should include both short and long term commitments that will ultimately measure progress toward achieving and accomplishing both the stated Vision and Mission. Goals should be developed specific to the City's desired level of service. Careful thought and planning should occur when developing the Goals, because these are measurable outcomes that can be touted if accomplished or criticized if not accomplished. The development of reasonable Goals is often a balancing act between budget and performance. Creating Goals that meet this balance is often difficult and always specific to individual communities.



### 3.3 Minimum Requirements

Goals that the City must commit to and are identified in the WDR include:

1. Create/develop a management, operation and maintenance plan and schedule to reduce preventable SSOs.
2. Respond to and mitigate all SSOs discharging from the City's collection system.
3. Ensure adequate system capacity for the current and future needs of the City's service area.
4. Establish measurable performance indicators and manage assets at lowest life cycle costs.
5. Provide accurate reporting of all SSOs as described by the Order.
6. Properly fund, manage, operate, and maintain, with adequately trained staff and/or contractors.
7. All parties involved, shall possess adequate knowledge skills and abilities necessary to ensure the proper management, operation, and maintenance of all parts of the sewage collection system owned and/or operated by the City of Pomona.

The State Water Board also expects both a plan and schedule to be created by the City to ensure that an SSMP is developed in accordance with the time schedule identified in the WDR and will facilitate proper sanitary sewer system management, operation, and maintenance.

### 3.4 Evaluation

#### ***Has the agency established its goals consistent with the Order?***

*Based on a review of City's existing SSMP, the City has set the following eight goals for meeting the minimum requirements of the Order:*

1. *Proper management, operation, and maintenance of all parts of the system;*
2. *Reduced occurrence of and potential for SSOs;*
3. *An effective FOG control program;*
4. *Assurance of adequate capacity to convey peak wastewater flows*
5. *A current long-range planning and improvement plan;*
6. *Compliance with all regulatory requirements;*
7. *Protection of the public's health and safety; and*
8. *Effective public information and education efforts.*

#### ***Has the agency established a defined level of service?***

*The City has established a level of service for cleaning of its sewer lines and establishing a numerical limit on SSO's per 100 mile of collection systems; or establishing a standard response time to an occurrence of an SSO. The goal is to clean every line segment every 1.5 years and reduce SSOs per year for every 100 miles of conveyance system. Based on discussions with the City's wastewater maintenance personnel, they have been able to meet and exceed both this goals. Additional Key Performance Indicators (KPI) need to be established though for all elements of the SSMP including FOG, CIP implementation, overflow emergency response and Mitigation Monitoring and Reporting Program or MMRP as well as define acceptable "Level of Service" as part of its goals.*





### 3.5 Recommendations

*Based on an overall review of the City's 2013 SSMP, discussions with the Wastewater Maintenance Section, and a review of all other City documents, it can be concluded that Goals 1, 2, 3, 4, 5, 6, 7,8 have been complied with. Goals 3 and 4 have been initiated by the City, but still need additions and refinements. These recommendations for specific sections of the SSMP have been discussed throughout this report.*

*Some items that the City may want to address in its Mission Statement are contained in Sections D.3-10, of the WDR. In general these items include:*

- *The City will take reasonable steps and attempt to provide feasible alternatives to the reduction and mitigation of SSOs, including:*
  - *Temporary storage or retention of untreated wastewater; with the relocation of the annex facilities during soils cleanup phase, the temporary facilities will have an area designated for temporary storage.*
  - *Reduction of inflow and infiltration; in the one of the upcoming red flags construction contract, a bid option will be included to address rehabilitate and/or replace specific manholes in the Phillips Ranch wherein water is suspected to be to infiltrating*
  - *Use of adequate backup equipment; staff has placed an order with fleet for a new set of tires for the trailer.*
  - *Collecting and hauling of untreated wastewater to a treatment facility or an increase in the capacity of the system as necessary to contain the design storm event identified in the SSMP.*
- *The Enrollee shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:*
  - *Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure; annual practice session for doing just this.*
  - *Vacuum truck recovery of sanitary sewer overflows and wash down water;*
  - *Cleanup of debris at the overflow site;*
  - *System modifications to prevent another SSO at the same location;*
  - *Adequate sampling to determine the nature and impact of the release; and*
  - *Adequate public notification to protect the public from exposure to the SSO. City is now in possession of the signs that will be posted at a spill site.*
- *The City shall properly, manage, operate, and maintain all parts of the sanitary sewer system owned or operated by the City, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities. All of wastewater staffers are certified with at least a level one or are in the process of getting their certification as required by the job description.*
- *The Enrollee shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. One such purchase, a new camera truck has been acquired and it provides more capability than the previous CCTV truck. The rate study by Rafetellius will help establish sinking funds for large purchases such as vactor and camera trucks. Also being built into this system*



*program is the large maintenance items such as red flag mainline and manhole repairs and/or rehabilitation.*

- These procedures must be in compliance with applicable laws and regulations and comply with generally acceptable accounting practices. The City is currently developing a revised and updated rate cost schedules for sewer fees.*
- The City will provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the Enrollee's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the Enrollee. With the new sewer hydraulic model being developed as part of the Strategic Plan, the City will be able to evaluate design limitations in the current and future state; the model will reflect mainlines 8" or greater which will give us more coverage.*



## **SECTION 4 - Organization**

- D.13 (ii) - **Organization:** The SSMP must identify:
- (a) The name of the responsible or authorized representative as described in Section J of this Order.
  - (b) The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
  - (c) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

### **4.1 Overview**

This element of the WDR describes both the organizational structure of the City as well as activities, duties, and responsibilities for individuals and positions associated with the sanitary sewer system. This section includes typical positions and their associated activities, duties, and responsibilities.

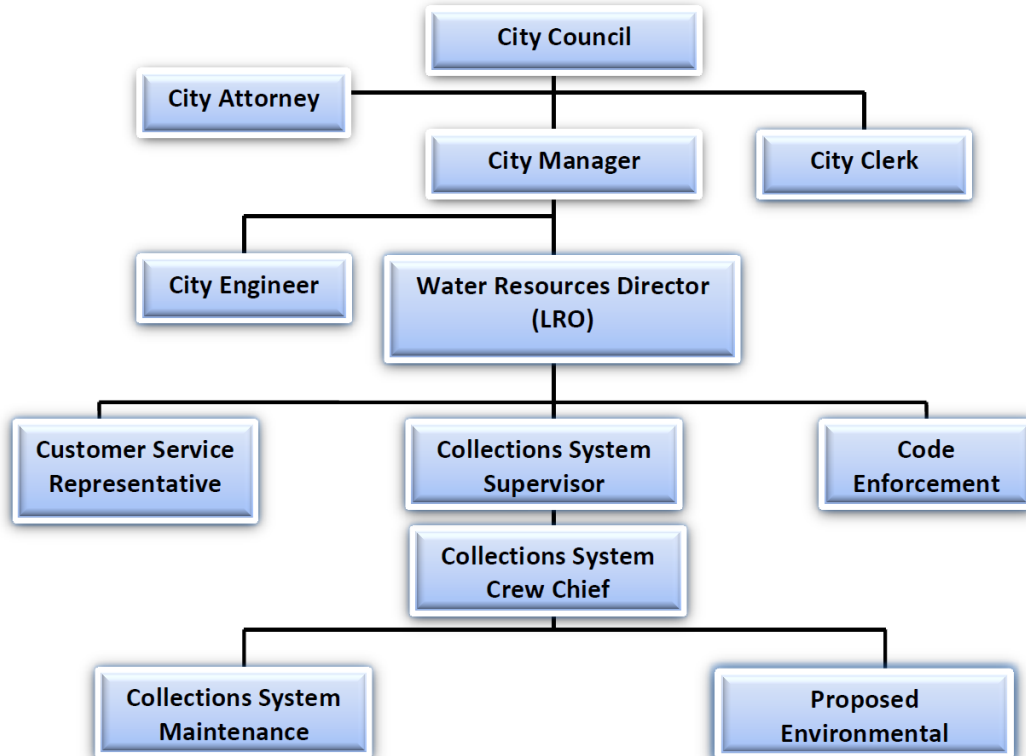
### **4.2 Purpose**

Clearly identifying specific roles and responsibilities within the organization will ensure a clear understanding of duties that must be performed, as well as training and skill sets that are associated with specific jobs throughout the agency. Typical position and associated responsibilities are shown on Exhibit 1. The chart located in the 2013 SSMP listed the Public Works Director as the LRO. This Exhibit requires updating to replace this position with the Water Resources Director who is the primary LRO for the City.

The job title and descriptions will also require updating listed below the Exhibit 1 also require similar changes. More specifically, the Public Works Director should be removed and replaced with the Water Resources Director. The new Director title would replace the previous title of Water/Wastewater Manager held by Mr. Poulsen.



## Exhibit 1 Typical City Org Chart



|                      |  |
|----------------------|--|
| <b>City Council</b>  | Establishes policies, reviews and accepts formal plans, sets overall City direction, authorizes funds for projects/plans/programs, general overview of upper management (Mayor, City Manager, City Attorney), conducts public meetings and hearings, approves SSMP.  |
| <b>City Attorney</b> | The City's attorney develops and approves legal documents, provides legal advice, conducts litigation, and attends public meetings.  |
| <b>City Manager</b>  | Responsible for the day-to-day management and operation of the City under the direction of the City Council. Specifically the City Manager establishes procedures, plans strategy, leads staff, allocates resources defined in the City budget, delegates responsibility, authorizes outside contractor to perform services, and serves as overall public information officer. |
| <b>City Engineer</b> | Responsible for the development and implementation of city design and construction standards. Quite often responsible for 3 <sup>rd</sup> party plan check   |



as well as construction and building inspection. Provides engineering drawings, plans, and specifications for projects within the city. Also is responsible for developing or overseeing engineering studies such as hydraulic modeling, master planning, and CIP program development.

**Water Resources  
Director**

Responsible for the management and operation of the Water Resources Department, including the operation and management of the sanitary sewer system. Reports to the City Manager and is one of the **LROs for the City.**

**Collections System  
Supervisor/Weekend**

Responsible for the operation and maintenance activities of the sanitary sewer system, including direct supervision and scheduling.

**Field Supervisor**

Oversight of all maintenance crews, and regularly scheduling maintenance activities. Coordinates field operations and prepares and implement overflow emergency response plan, leads emergency response, investigates and reports SSOs and trains maintenance workers and field crews.

**Collections System  
Maintenance Workers**

Staff preventative maintenance activities, report condition of City assets, mobilize and respond to notification of stoppages and SSOs, and mobilize sewer-cleaning equipment and by pass pumping equipment.

**Customer Service  
Representative**

Responsible for receiving maintenance calls and complaints and dispatching maintenance workers to perform emergency operations. Also responsible for initiating records within the agencies tracking system for SSOs and other related events.

**4.3 Minimum Requirements**

1. The name of the responsible or authorized representative as described in Section J of this Order.
2. The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
3. The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

**4.4 Evaluation**



**Has the agency named a responsible party or authorized representative compliant to the Order and is that person's name and contact information available?**

Yes; that authorized Representative is Darron Poulsen. He is located at 148 North Huntington Street, Pomona, California, 91768. His office phone number is (909) 620-2253.

**Have the names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program been identified?**

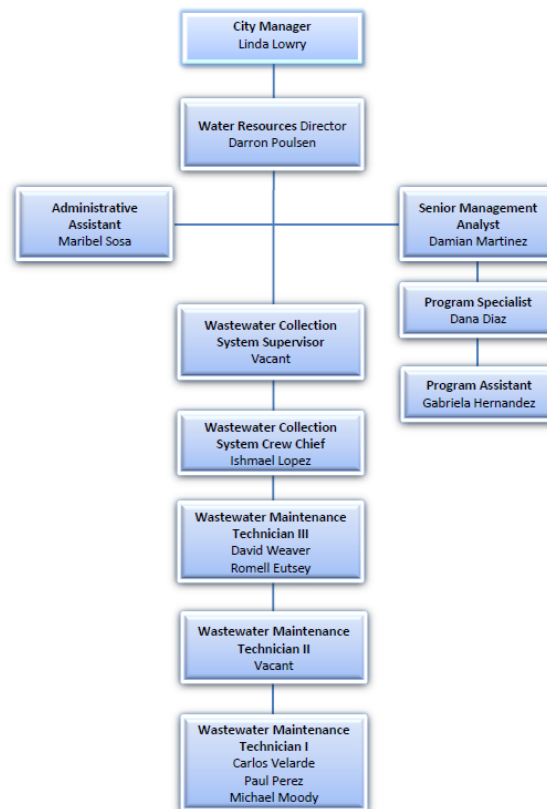
Yes; they are listed in the 2013 SSMP, Appendix D, Attachment E but they need to be updated. For example:

- Darron Poulsen is the new Water Resources Director
- Rene Salas nor Norbert Baldonado are no longer with the City

**Have the lines of authority through an organization chart or similar document with a narrative explanation been developed?**

Yes; the City's organizational chart is listed in the 2013 SSMP, Section. 3.2.1 Governance, Figure 3-1. It is also shown on Exhibit 2 but has also been updated..

Exhibit 2: City of Pomona Wastewater System Organization Chart





**Has the chain of communication and protocol for reporting and responding to SSOs been developed?**

The City still maintains a chain of communication or protocol for those who receive the initial notification of collection system issues, transmits that information to field crews, or who are responsible for notifying and implementing reporting procedures.

**4.5 Recommendations**

The City has designated the Water Resources Director as the primary LRO. He has delegated his authority on a daily basis to the Wastewater Collection System Supervisor and any additional LROs in the event of their absence from the workplace.

The current organizational document has been updated to define the roles and responsibilities for all City Employees and other parties that are responsible for carrying out activities associated with sanitary sewer system. Also, the job description includes duty statements, job performance requirements, and other pertinent information necessary to clearly communicate roles, responsibilities, skill sets, licensures, and training needed to carry out specific job related duties.

Currently, the City has a “Customer Service Line” which refers customers to the Police Department Dispatch, after normal business hours. The Police Department does have all emergency contact information in case of an SSO. After checking with staff, these telephone numbers have remained the same.

The existing procedures should be updated, and communicated to all parties that could potentially be involved with SSO response, notification, and reporting. There have been changes to staffing due to retirement, job change, etc. Emergency contact telephone numbers should be distributed to the public, public agencies that may be involved with response to SSOs (fire, police, public health, regional board, etc...), and all appropriate City staff. Additionally, clear procedures that identify communication paths between the City and any other city contractors should be developed, communicated, and routinely tested to ensure proper implementation, training, and revisions if needed. This information should readily be available on the City’s web site, as well.

Listed below are specific changes that need to be incorporated into the next SSMP:

- **Section 3.2**, Discussion on Organizational Structure: Need to remove the reference to the Public Works Department and replace with Water Resources Department:
- **Section 3.2.1**, Governance: Rene Salas is no longer the LRO; he needs to be replaced with Darron Poulsen name and title; the Sewer Division no longer resides under his authority so Figure 3-1 needs to be updated as well; need to change Darron’s title and job description on the Definitions
- **Figure 3-1**: Needs to reflect Darron’s new position and title
- **Section 3.2.2**: Need to replace text that replaces Public Works Director with the Water Resources Department Director; also, need to remove the reference to the PW Director
- **Figure 3-1, Page 3-5**: Figure numbering system is incorrect; this should be Figure 3-2; need to replace text that replaces Public Works Director with the Water Resources Director; also, need to remove the reference to the PW Director



- **Section 3.2.3:** Need to reflect Darron's new position and title; also, need to remove the reference to the PW Director
- **Section 3.2.4:** Need to reflect Darron's new position and title; need to change his telephone number to (909) 620-2253
- **Figure 3-2:** Need to reflect Darron's new position and title; also, need to remove the reference to the PW Director





## **SECTION 5 - Legal Authority**

- D.13 (iii) **Legal Authority:** Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:
- (a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
  - (b) Require that sewers and connections be properly designed and constructed;
  - (c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
  - (d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
  - (e) Enforce any violation of its sewer ordinances

### **5.1 Overview**

This chapter is intended to identify and describe the necessary legal authority that an agency must have in order to implement SSMP plans, programs, and procedures. Regulatory mechanisms that are used by cities quite often include City Ordinances, Codes, and Resolutions, State and Federal Laws, Licensing and Permitting Processes, Memorandum of Agreements, Contractual Agreements, as well as other programmatic mechanisms necessary to carry out asset management activities.

### **5.2 Purpose**

The basis of all authority to manage, operate, and maintain agency's infrastructure is derived from documents adopted by its elected board or council. In order to ensure that the City has the proper legal authority established to implement and enforce all of the programs required by the WDR, the City must first establish necessary legal authority to do so.

### **5.3 Minimum Requirements**

The SSMP must include the legal authority, through sewer use ordinances, service agreements, or other legally binding procedures, to:

- a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
- b) Require that sewers and connections be properly designed and constructed;
- c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;



- d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
- e) Enforce any violation of its sewer ordinances.

#### 5.4 Evaluation

**Does the City Ordinance provide necessary control measures for illicit discharges including:**

1. **Infiltration and Inflow;**
2. **Fats/Oils/Grease (FOG);**
3. **Chemicals that may be harmful and/or dangerous to infrastructure and the environment; and**
4. **Other debris such as root cutting and construction materials?**

*The City does have ordinances providing control measures for illicit discharges such as FOG, chemicals, and other types of materials. However, there do not appear to be specific language as it relates to stormwater or I/I specific discharges and or construction. The City needs to prohibit discharge of unpolluted water, including stormwater, into a sanitary sewer through direct or indirect connection.*

**Do City ordinances and/or other legally binding requirements contain adequate legal authority to require proper design and construction of new and rehabilitation work?**

*After reviewing the City's Water & Sewer Ordinance, Chapter 62 of the City's Municipal Code, there is adequate "General" language pertaining to the "Legal Authority" to require proper design and construction of new and rehabilitation work in the sanitary sewer system within the City of Pomona. There needs to be additional "Specific" language related to the construction of sewer lines and manholes to prevent I/I in the system, a review and revision of definitions, and a modification of role definition wherein the Water Resources Director is acknowledged.*

**Do City legal requirements provide for both access for maintenance, repair, and inspection for all collection system assets?**

*There is adequate language pertaining to access to the sanitary sewer system for maintenance, repair and inspection within the City of Pomona.*

**Does the City's legal authority provide for enforcement measures in case of Ordinance violations?**

*The City's Water & Sewer Ordinance, Chapter 62 of the City's Municipal Code, has language pertaining to the enforcement measures that can be taken by Public Works Director/City Engineer. However, Public Works Director/City Engineer has limited or no authority when it comes to assessing fines for misdemeanors or infractions. As such, specific violations must be delineated to facilitate establishing the authorization necessary to issue violation notices and fines specific to the wastewater collection system, including passing on to the culpable parties fines and penalties that the City may incur for the negligent and intentional acts of others.*



**Are all service agreements up to date and explicitly identify roles and responsibilities and expectations?**

*The City no longer has a service agreement for maintenance of the four sewage lift stations. An agreement was reached and executed wherein the LACSD is now the owner and thus responsible for ongoing maintenance and capital improvements of those facilities. Also included in the latest agreement is that the Force Main from Sewer Lift Station No. 4. as it is now owned and maintained by the LACSD.*

*As evidenced by the 2015 agenda, there has been additional coordination with the LACSD to transfer the other sewer force mains since then. A copy of the meeting agenda is included in the Appendicies.*

**Are other legally binding procedures documented, kept up to date, and available?**

*All legally binding procedures are documented, updated and available at City Hall.*

## **5.5 Recommendations**

*The City needs to consider revising municipal codes, ordinance, and/or resolutions necessary to further develop the authority needed to implement many of the required SSMP elements and programs. One specific area that has still not been updated is centralizing the role of the Water Resources Director as the person responsible to review and condition construction plans, develop and enforce permits, and generally make decisions with respect to the wastewater collection system. Additional specific language for the construction of sewer lines and manholes for preventing I/I and stormwater needs to be developed.*

*Ordinances should also deal with easements and ingress-egress issues needed for access, ownership, and maintenance of all collection system assets. As a result of this review, the City may conclude that it is in its best interest to relocate facilities to exert its right to access. The City needs to revisit the agreements and locations, to explicitly lay out rolls, responsibilities, levels of service, programmatic implementation, and assumed liabilities and assumptions of risk. The City's GIS database does have shape files that show some of the existing sewer easements. Next steps would include verification of the easement, field site assessment, and finally an evaluation has to how to maintain or relocate the main.*



**SECTION 6 - Operation and Maintenance Program**

- D.13 (iv) **Operation and Maintenance Program:** The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:
- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
  - (b) Describe routine preventative operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
  - (c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
  - (d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance and require contractors to be appropriately trained; and
  - (e) Provide equipment and replacement part inventories, including identification of critical replacement parts.



## 6.1 Overview

This section of the 2013 SSMP describes how the City will operate and maintain the sanitary sewer system within its jurisdiction. It will involve the development and implementation of several major programs and activities including the production of maps, maintenance and cleaning schedules, and a comprehensive rehabilitation and replacement plan.

## 6.2 Purpose

Thorough assessment of the present condition of the sanitary sewer system, deficiencies and defects within the system can be identified so that these issues can be targeted and prioritized for rehabilitation. This program of preventative maintenance will help to ensure that costly catastrophic system failures are preempted and will serve to reduce the amount of SSOs to be reported within the City.

## 6.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Create and maintain an up-to-date map of the sanitary sewer system within an Enrollee's jurisdiction. A map is included in the Appendices.
- 2) Develop and implement a Preventative Maintenance Program that describes preventative operation and maintenance activities and a system to document scheduled and conducted activities;
- 3) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and rehabilitation actions, including regular inspections of the conditions within the system.
- 4) Provide regular training for staff and contractors
- 5) Provide equipment and replacement part inventories.

## 6.4 Evaluation

### ***Does the City have and maintain a current collection system map?***

*The City does have its own automated set of collection system maps in the ESRI platform that has been developed and supports a City-wide GIS system. These maps are known or referred as the Sewer Atlas Sheets. There is also a grid system that covers the entire sewer service area.*

### ***Has the City developed and implemented a Preventative Maintenance Program that describes the Operations and Maintenance activities?***

*Yes, this program is defined in Appendix C of the 2013 SSMP. The program describes the City's responsibility for the ongoing maintenance and repair of the sewer main line. This includes routine and emergency cleaning. Elements of this plan includes preventive maintenance including cleaning of all sewer lines every 1.5 years. The City utilizes three (3) combination jetter/vactor vehicles and one (1) trailer mounted mechanical rodder. The sewers are typically cleaned by putting high pressure water jetting nozzles in the pipe and manually removing debris from the downstream manhole. Purchased equipment or staff-made appurtenances are inserted at the downstream manhole to capture and remove debris.*



*Included in the Appendices are pictures of the nozzle currently used by staff. What is not included in the O&M Plan of 2013 is the use of a pole camera. Staff uses this device ahead of their cleaning operation to quickly determine if the line needs to be cleaned or not; thus, allowing staff to only concentrate on line that need cleaning.*

*As a result of the City's CCTV monitoring program, staff is able to identify lines that have root overgrowth. Staff has acquired the technology and chemicals to now place the root foaming chemicals upon discovery and not require the services. This effort has saved costs and time, upon completion of the foaming application, staff CCTV the pipeline to determine the effectiveness of the application. A picture of the chemicals and the equipment involved in the process is included in the Appendices.*

***Has the City developed and implemented a rehabilitation and replacement plan?***

*Yes; there have been sewer rehabilitation/replacements since the City's 2005 Sewer Master Plan and its CCTV work in 2010. However, the 2005 Master Plan's hydraulic analysis was based on modeling of larger diameter pipes, thereby yielding minimal or no recommendations for smaller diameter pipes that constitute 75% of the City's system. Although we have been able to reduce the amount of hot spots in the City system, we anticipate additional locations in need of repair and/or rehabilitation once we develop the new hydraulic model that will be reflective of mains 8" and larger. This new model is being constructed as part of the Strategic Plan. At this point, RMC is gathering all of the relevant data to build the base map.*


*In addition, the City's 2017 Sewer CIP program will include eliminating Red Flag repair areas identified by the previous CCTV work.*

***Does the City provide regular training for staff and contractors that work with the sanitary sewer system?***

*There has been training for the staff responsible for the normal and emergency operation and maintenance of the sewer collection system. To the extent possible, staff is sent to CWEA events where they are exposed to the latest techniques in sewer management. A Training Log*



is kept current by the Wastewater Crew Chief, Mr. Ishmael Lopez.

| <br>City Of Pomona<br>Wastewater Department<br>2017 Training Database |                            |                             |                            |                     |                     |                     |                             |                             |                             |                                  |                                       |             |
|--|----------------------------|-----------------------------|----------------------------|---------------------|---------------------|---------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|---------------------------------------|-------------|
| Name   | Confined Space<br>2/7/2017 | Confined Space<br>3/15/2017 | Confined Space<br>2/2/2017 | Hazmat<br>5/10/2017 | Hazmat<br>5/31/2017 | Hazmat<br>2/13/2017 | Trench Shoring<br>4/19/2017 | Trench Shoring<br>5/17/2017 | Trench Shoring<br>5/31/2017 | Fog Seminar<br>OCSD<br>4/11/2017 | Pacp training<br>Ontario<br>7/27/2017 | Total Hours |
| Ishmael Lopez  |                            | 4                           |                            | 8                   |                     |                     |                             | 4                           |                             |                                  |                                       | 16          |
| David Weaver   | 4                          |                             |                            |                     | 8                   |                     | 4                           |                             |                             |                                  |                                       | 16          |
| Carlos Velarde   | 4                          |                             |                            |                     | 8                   |                     |                             | 4                           |                             | 4                                | 16                                    | 36          |
| Mike Moody   |                            | 4                           |                            | 8                   |                     |                     |                             | 4                           |                             | 4                                | 16                                    | 36          |
| Romell Eutsey  |                            |                             | 8                          |                     |                     | 8                   |                             |                             | 8                           | 4                                | 16                                    | 44          |
| Paul Perez   |                            |                             | 8                          |                     |                     | 8                   |                             |                             | 8                           | 4                                |                                       | 28          |
|  |                            |                             |                            |                     |                     |                     |                             |                             |                             |                                  |                                       |             |
|  |                            |                             |                            |                     |                     |                     |                             |                             |                             |                                  |                                       |             |
|  |                            |                             |                            |                     |                     |                     |                             |                             |                             |                                  |                                       |             |

When the City purchases new nozzles for cleaning, all staff undergo a training session to understand the proper workings of the equipment. Lastly, staff is subjected to a spill scenario in January of each year wherein they have to demonstrate the proper procedure for establishing a manhole to manhole bypass system in the field.

**Does the City have a system in place to track sewer system equipment and replacement part inventories?**

The Wastewater Collection System staff maintains an inventory of vehicles and sanitary sewer system replacement parts. However, this is not an automated system and the City does not currently have a system for tracking sewer system equipment and replacement part inventories. At this time, staff has not changed this practice.

**6.5 Recommendations**

The City should continue to examine its cleaning program to see if it can "fine-tune" its cleaning frequency. Efforts to purchase water efficient nozzles and integrating root foaming products will provide efficiency and cost savings as the City moves forward. The City did explore the use electronic (sonic) equipment by SL Rat in hopes of being able to better identify which mains required cleaning. After some field applications on some mains that were known to be dirty, it was determined that the results were not consistent. Hence, the City did not move forward with its purchase. As stated earlier, the use of the pole camera has saved the crew cleaning time by identifying only the lines that need it.



There is 1,615,000 lineal feet of sewer pipeline in the system. Two (2) crews of two (2) persons each are assigned to continuously clean the system. To confirm the effectiveness of the cleaning activities, the City's CCTV inspection crew has begun to randomly televise approximately 4,000 lineal feet of pipe that has been cleaned within the past two (2) weeks. The locations should be equally divided among the work performed by the crews. A pipe's cleaning frequency should be based on the pipe's "grade" during its cleaning interval. The cleaning frequency for pipes should be based on tabulating the degree of cleaning required by that pipe after each cleaning interval. For example, if a pipe requires medium to heavy cleaning after an interval of every six months, it may be time to increase the frequency of cleaning from 6 months to every three months. Similarly if a pipe receives a "clear" finding three consecutive times in a cleaning interval, it may be a good idea to move that pipe down to needing a lower cleaning frequency. As of the drafting of this document, the City has not been able to acquire the resources to implement this feature at this time.

The following is a list of tasks and suggestions for inclusion in a comprehensive Operations and Maintenance Program as a part of the SSMP.

- The City of Pomona has developed a Predictive Maintenance Program that includes plans for planned and scheduled inspection and rehabilitation of their sanitary sewer system. This includes CCTV and proposed hydraulic modeling as part of a comprehensive Sewer Evaluation and Capacity Assurance Plan (SECAP) pursuant to the 2013 SSMP.
  - Pipe CCTV or by staff entry as indicated
    - "Hot Spots" identification in GIS
    - Trend analysis utilizing the cleaning schedule
    - Initial inspection prior to acceptance of CIP or rehab
    - Periodic system re-inspection
    - Detailed inspection of deteriorated areas prior to repair/rehab/replacement
    - Quality control on line cleaning, root cutting, etc.
    - Standardized defect coding system needed
      - Checking for pipe condition, depth and/or percentage of concrete spalling, depth of corrosion, pH measurement
  - Need to Complete Manhole inspections:
    - Visual from surface
    - Staff entry as indicated for detailed evaluation
    - Standardized defect coding needed
    - Should also cover: manhole concrete or protective coating condition, shelf condition and material loss, debris, roots, roaches/vermin, crown, pH, flow depth of water/diameter of channel, velocity, turbulence, hydrogen sulfide levels
  - Need to develop a database of existing easements from GIS maps and property records, develop a schedule for Easement and Right of Way surface inspections and creating assessments, and integrating into future CIP projects possible relocations
    - Checking for vandalism, potential problems due to vegetation, land movement, surface erosion, illegal improvements that limit access, etc.





- *Lastly, specific sections of the 2013 SSMP needs to be addressed:*
  - **Section 5.3.2.:** *The City has purchased a small amount of foam chemical for root treatment from RootX; they have tried a number of pipelines and met with success in at least 12 locations.*
  - *Have not implemented a new CMMS program; as an interim step, staff is working with a firm ID Modelling to develop a reporting program via Sedaru®; the program will be able to extract data from the hydraulic model and report on work orders for the Sewer Division*
  - **Section 5.3.3:** *Only 25% of the manholes in the system were inspected and recorded by Trans Consulting; infiltration was identified when encountered*
  - **Section 5.3.4:** *This section does not cite the contract specification Special Technical Provisions, Section 1170, paragraph 1.5 wherein the contractor must maintain sewage flows and sewage bypass if necessary*
  - **Section 5.3.5:** *Need to see the latest updates*

*As the WDR requirements continue to unfold, the City should continuously update their Operations and Maintenance Program. Many of these recommendations have been outlined in the 2013 Sanitary Sewer Master Plan, the results which can be considered as additions or in some cases replacing the current operations and maintenance program.*



## **SECTION 7 - Design and Performance Provisions**

### **D.13 (v) Design and Performance Provisions:**

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- (b) Procedures and standards for inspecting and testing the installation of new sewers, pumps and other appurtenances and for rehabilitation and repair projects.

### **7.1 Overview**

Development of standards for the design, construction, inspection, testing and acceptance of new, rehabilitated, or repaired portions for the collection system is key in ensuring a safe, and reliable collection system. Even if the City has existing standards in place a comprehensive review of these is required to establish meeting the SSMP criterion.

### **7.2 Purpose**

This requirement will create continuity within the system, preventing inconsistencies from leading to hydraulic deficiencies which can result in a sanitary sewer overflow.

### **7.3 Minimum Requirements**

At a minimum, each enrollee must:

- 1) Develop and implement consistent design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- 2) Develop and implement procedures and standards for inspecting and testing the installation of new sewers, pumps and other appurtenances and for rehabilitation and repair projects.

### **7.4 Evaluation**

***Does the City require consistent design and construction standards for the installation of new sanitary sewer systems and all applicable appurtenances?***

*City Code Chapter 62, Article V, Division 1, from Section 62-391 to Section 62-396 includes the general design and construction requirements for the City's wastewater collection system. The sections include the requirements for sewer connection locations, pipe size, minimum grades, manholes, and construction requirements.*

*In addition, the City has updated its sewer design standards in AutoCad. This was the result of review of the current standards, new image creation, and technology changes. In some cases, a new standard was developed to provide further information for contractors. The signed standards are included in the Appendicies.*



| Old Sewer Standard | Description  | No. of Pages | New Sewer Standard |
|--------------------|--|--------------|--------------------|
| B-11-83            | Manhole 4' X 3' (15" Diameter and Smaller)                 | 2            | S-1                |
| B-11-83            | Manhole 5' X 3' (18" Diameter and Larger)                  | 2            | S-2                |
| None               | Drop Manhole (For 8" or 10" Pipe)                          | 1            | S-3                |
| B-3-58             | 36" Manhole Frame and Two Concentric Covers (Heavy Duty)   | 1            | S-4                |
| B-8-61             | House Connection (Sanitary Sewer Lateral)                  | 2            | S-5                |
| B-10-61            | Sewer Main Cleanout  | 1            | S-6                |
| B-10-61            | Sewer Main Cleanout Access                                 | 1            | S-7                |
| None               | 4" Backwater Device (for Laterals 2-Feet or Deeper)        | 1            | S-8                |
| None               | Backwater Device Shallow Installation (Less than 24" Deep) | 1            | S-9                |
| None               | Bedding and Trench Backfill                                | 2            | S-10               |

### Inspecting and Testing

Compliance with the sewer design policy requires the contractor performing work on the City's sewer facilities to be responsible for conducting a CCTV inspection for all new and rehabilitated sanitary sewer systems and other appurtenances and submitting a copy of the CCTV report and inspection documentation to the City's Water Resources Director at least thirty (30) working days in advance of the anticipated date of final construction acceptance. The information provided by the contractor is subsequently reviewed by the City's designated inspector for compliance with City design and construction policies.

### **7.5 Recommendations**

- *City of Pomona should continue review and develop new standards to reflect the changes in practice and technology. In speaking with staff, they have reviewed current design standards and proposed changes that are making their way for adoption. In addition, some additional design standards have been added to the Department's portfolio so that the Contractors who work in the City maintain a consistent practice.*
- *In Appendix G, Sewer Design Policy and Standards, Section 1.6 – Capacity it says, "New sewer mains 15 inches and smaller in diameter shall be sized to carry the projected peak hour wet weather flow at a depth not greater than half of the inside diameter of the pipe ( $d_r/D$  not to exceed 0.50, where  $d_r$  is the nominal depth of the water in the pipe and  $D$  is the diameter of the pipe). New sewer mains 18 inches and larger in diameter shall be sized to carry the projected peak hour wet weather flow at a depth of flow not greater than 3/4 of the inside diameter of the pipe ( $d_r/D$  not to exceed 0.75)."*
- *Per industry standards, sewers 12 inches in diameter and smaller are designed to carry peak dry-weather flows at  $d/D$  ratios of 0.50 or less; and sewers 15 inches in diameter and larger are designed to carry peak dry-weather flows at  $d/D$  ratios of 0.75 or less. To carry peak wet-weather flows at these same  $d/D$  ratios for peak dry-weather flow appears to be too conservative. Also, there is no standard wet-weather design storm by*



which to evaluate sewers. If wet-weather flow is to be the stipulated design criteria, then a storm would need to be identified, i.e. a 5-year recurrence interval storm or a 10-year recurrence interval storm, etc. But the same recurrence interval storm can have different combinations of rainfall intensities and durations. Also, even the same recurrence interval storm can cause different wet-weather runoffs into the sewer depending on terrain, i.e. slope, percent impervious, etc.

- City of Pomona should continue with existing protocols for the inspection and installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems as outlined in the City ordinance. As an added protection, the City CCTVs newly installed mains to ensure that the final pipeline is complete and functional.
- It says in Appendix G, Sewer Design Policy and Standards, Section 1-6, "Design calculations shall include calculations of average day, maximum day, and peak hour." However, no City-accepted "general" peaking factors are provided that can be used "in the absence of flow data or other reliable information." Also, the peaking factors are not defined in terms of dry or wet-weather peaking factors. Maximum-day factors are typically not used in calculating peak wastewater flows. A range of residential peak dry-weather factors should be provided based on the number of dwelling units in the drainage basins, i.e. 2.0 to 3.0 for 2,000 DUs and less; and 1.5 to 2.0 for over 2,000 DUs.
- It says in Appendix G, Sewer Design Policy and Standards Section 1-7, "In order to minimize the formation of deposits, the minimum grade for sewer mains shall be such as to provide a velocity of not less than two (2) feet per second (fps) when the sewer is flowing full or half full under peak dry weather flow (PDWF) at the time the pipe is placed into service. Additionally, during periods of low flow an actual velocity of 1½ fps should be achieved. Manning's coefficient of roughness "n" shall be assumed to be 0.013 for all types of sewer pipe. The maximum flow velocity shall not exceed eight (8) fps. The standard minimum slope sewer main is 1.0 percent."
- Per industry standards, sewer mains are designed to provide a minimum velocity of 2 feet per second (fps) when the sewer is flowing half full under peak dry weather flow (PDWF), but not when flowing full.

In the 2013 SSMP Appendix C, Operations and Maintenance, there are repair techniques offered to rehabilitate manholes but not lids and frames for inflow defects. Inflow can enter manholes through openings in manhole lids and through defects in the frame. Manholes with such defects that are located in low earthen areas or near paved curbs and gutters are especially prone to inflow. Some methods to rehabilitate manholes for surface inflow defects include sealing the manholes that are in low level areas.

At conferences such as the Tri-State Seminar in Las Vegas, the CWEA Seminar in San Diego, and others, there are repair techniques placed on display for attendees. Sprayed on synthetic liners was one of the methods that showed promise for rehabilitation of manholes. Some of the presenters also mentioned the cost saving practice of placing a cement layer over brick the manholes but did not last as long. The City needs to continue to explore new repair techniques and conduct some sort of evaluation as to their effectiveness in the next SSMP.

Reset Frame and Raise to Grade. Resetting the frame is a method intended to adjust a frame that has moved horizontally and/or to raise the cover above grade to prevent inflow, mostly in



non-paved areas (for example, when a cover is located in a slight depression where ponding of water occurs) and where new pavement work is taking place. The installation involves minimal excavation - only enough to allow replacement of damaged concrete leveling rings and addition of new rings to bring the top of the frame above grade.

- Manhole Pans. Manhole pans fit under the manhole cover and are intended to prevent inflow through holes in the manhole cover. The pans are either HDPE or stainless steel.
- Manhole Covers. Gasketed manhole covers are steel covers with an inset gasket either in the frame or placed between the frame and cover. They are intended to prevent inflow from around the manhole cover. Solid manhole lids without holes are available, as are plugs for the holes. This is currently implemented in new construction where the ribbon gutter is in line with the sewer main as it flows around the manhole where the manhole cover is elevated above the flow line is currently practiced.
- Manhole Risers: Need to include additional discussion on synthetic risers that can be used to raise manholes covers in lieu of concrete ones. They are light weight and are made to sustain truck loading. Another topic raised at the Tri State Seminar.



## **SECTION 8 - Overflow and Emergency Response Plan**

**D. 13 (vi) Overflow Emergency Response Plan** - Each enrollee shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure an appropriate response to all overflows;
- (c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

### **8.1 Overview**

This element of the SSMP consists of both the contingency plan and the procedures for responding to an overflow event.

### **8.2 Purpose**

Proper procedures must be established and put into practice in order to minimize the negative effects of an SSO. This section requires the implementation of a concise set of procedures that will seek to ensure that all negative effects of an SSO on public health and the environment are minimized. Proper overflow response procedures are one of the main reasons for the development of the WDRs for SSOs.



### 8.3 Minimum Requirements

At a minimum, each enrollee must include in its overflow emergency response plan:

- 1) Proper notification procedures for primary responders and regulatory agencies;
- 2) A program to ensure appropriate response to all overflows; Procedures to ensure prompt notification of appropriate officials or other potentially affected agencies for reporting purposes;
- 3) Procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained;
- 4) Procedures to address emergency operations
- 5) A program to ensure that all steps are taken to contain untreated wastewater and prevent discharge of untreated wastewater to waters of the United States.

### 8.4 Evaluation

***Does the City currently have an Overflow Emergency Response Plan developed and implemented?***

*Yes, the City does have a comprehensive Sewer Overflow Response Plan which was updated in October 2013. This plan will need to be updated in view of many organizational changes that have occurred in the City since 2013.*

### 8.5 Recommendations

*The following sections in the 2013 SSMP, Appendix D are recommended to be updated:*

- *Table 2-3 with regards to the new organizational changes and positions;*
  - *Delete Pomona "Pomona Public Works Director " and replace with "Water Resources Director"*
  - *Delete "Pomona Water/Wastewater Operations Manager" and replace with "Water Resources Director"*
- *Page 41, Sanitary Sewer On-call Response Personnel table needs to be updated and the name and phone number of the Water Resources Director needs to be added*
- *Page 41, Sanitary Sewer On-call Response Personnel table, delete "Pomona Public Works Director" and replace with "Water Resources Director"*
- *Page 41, Sanitary Sewer On-call Response Personnel table, delete "Water/Wastewater Collection System Operations Manager"*
- *Page 53, Sanitary Sewer Overflow Notification List table needs be updated and the name and phone number of the Water Resources Director needs to be added*
- *Page 53, Sanitary Sewer Overflow Notification List table, delete "Public Works Director"*
- *Page 53, Sanitary Sewer Overflow Notification List table, delete "Pomona Water/Wastewater Operations Manager" and replace with "Water Resources Director"*
  - *Figure 3-2 Communication Plan for SSMP Implementation in the City's current SSMP needs to be updated by replacing the box for "Public Works Director" with a box for "Water Resources Director"*



- *Procedures to ensure that all appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are properly trained*
  - *The Overflow Response Plan should continue to be updated and made available to key personnel who are responsible for managing or responding to SSOs. Presentation of this section will be provided to maintenance staff once a year during a tail gate session prior to practicing the bypass drill. Copies of the City's instruction manuals should be available to field crews and engineers at the office who manage or have the role of preparing SSO reports to regulatory agencies.*
  - *Post the updated Sanitary Sewer Overflow Emergency Response Plan, as currently shown in Appendix D of the 2013 SSMP on the City's Intranet. Posting of public notices of SSOs should occur as soon as practical following the initial response to overflows. Signs should be posted on either side of the point of entry where sewage entered the body of water or public facility and the nearest public access point to that body of water or public facility*
  
- *Lastly, Section 7.2 of the 2013 SSMP needs to be addressed the following items:*
  - *Need to develop and present a short Powerpoint presentation to Public Works and Water Resources field crews; the intent is to make field staff aware on how to contain the flow if possible by setting up berms until wastewater staff can arrive*
  - *Need to verify that the wastewater staff has been presented this section overview in their tailgates; probably need to attend one of those meetings*
  - *Staff has investigated, identified, and purchased emergency spill signs; they can be mounted on barricades if necessary. A photo of the signs is included in the Appendicies.*
  - *Staff needs to continue to conduct annual bypass setup training in the field; the setup was performed in the first part of February 2017; pictures of the layout are attached in the Appendicies.*





## **SECTION 9 - FOG Control**

**D. 13 (vii) FOG Control Program** - Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. The plan shall include the following as appropriate:

- (a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- (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 SSOs and blockages caused by FOG;
- (d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- (e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- (f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- (g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.



## 9.1 Overview

Under the Order, the City is required to evaluate its service area to determine whether a Fats, Oils, and Grease (FOG) control program is needed. If the City determines that a FOG program is not needed, it must provide justification for why it is not needed. If FOG is found to be a problem, the City must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system.

## 9.2 Purpose

FOG is generated in most types of restaurants and food service establishments during food preparation, food service, and kitchen clean up. If flushed down the drain, FOG can build up in pipes, pumps, and equipment - causing significant problems in the sanitary sewer system, including line blockages. Blockages can lead to sewer overflows, posing environmental and public health hazards. Understanding and controlling discharges of FOG will greatly reduce potential liability of SSOs and efforts required to keep lines clean.

The key to reducing FOG in the sanitary sewer system includes both a good source control program, as well as preventative maintenance to ensure FOG that does build up within the system is cleaned before significant buildup can occur. Additionally, understanding your collection system and the type of discharges within the service area is paramount to the strategic implementation of a FOG program.

## 9.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Determine if FOG is (or could be) an issue within the service area. If FOG is found not to be an issue, then justification must be provided
- 2) Create a plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- 3) Develop 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;
- 4) Ensure that the appropriate legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- 5) Require the installation of grease removal devices (such as traps or interceptors), including design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- 6) Make sure that the agency has the authority to inspect grease producing facilities, enforcement authorities, and whether the agency has sufficient staff to inspect and enforce the FOG ordinance;
- 7) Identify sections of the sanitary sewer system that are subject to FOG blockages and establish a cleaning maintenance schedule for each section; and
- 8) Develop and implement a source control and/or cleaning program for all sources of FOG discharged to the sanitary sewer system.



## 9.4 Evaluation

### **Does the agency have a FOG problem?**

Yes, however, past SSOs have been a combination of FOG and system related issues. A comprehensive and practical plan will be developed and implemented by the City. Both funding and resources need to be identified and secured to implement this next phase.

Typically, data is provided that can prove or disprove the presence of a FOG issue. Data that may be used to make a determination includes:

- 1) SSO Reports including the cause of blockage;
- 2) Cleaning and other maintenance data that identifies FOG as a potential problem;
- 3) CCTV inspection reports that identify areas or sources of FOG;
- 4) Master list of restaurants that discharge to the sanitary sewer system and that could potentially cause a FOG related problem; this information is available from the business database by query; the list is subject to change; could include but would be concerned about customer information; it would have to be scaled backed so as to remove ownership information; it is possible to obtain a general listing from the Internet Yellow Pages as well.

### **Does the FOG control program have a plan and schedule for public education to promote the proper disposal of FOG?**

The City has an informal public education program to promote the proper disposal of FOG. Information on proper disposal of FOG and other SSO prevention measures, including installation of backwater valves, house lateral maintenance, etc. disseminated through public events in both Spanish and English. In fact, one such event took place at the Los Angeles County Fair where the City has set up a booth to handout brochures on FOG and water conservation. The City's has provided information on its home web page by posting the 2013 SSMP and other related sewer documents. The City has not explored the use of radio and television announcements and other means to get the word out.

### **Does the FOG control program provide for the proper disposal of FOG generated within the Agency's jurisdiction including a list of acceptable disposal sites?**

No. Much like the *Guide for Developing and Updating of Sewer System Management Plans (SSMPs)* prepared in September 2013, this list has to be prepared without the appearance of bias. There is an organization, however, called CalFOG that publishes a list of grease haulers and grease acceptance facilities in the State. I obtained this information from a previous annual LACSD report and have attached a copy of the listing in the Appendicies.

### **Is there a FOG ordinance or other legal authority that prohibits the discharge of FOG into collection system?**

The City ordinances have language pertaining to FOG in the sanitary sewer system within the City of Pomona. What is included in the Division 3. Sand and Grease Traps ordinance makes reference to installation, packing, and maintenance of grease traps and grease interceptors.



**Does the FOG control program require the installation of grease removal devices including design standards and maintenance requirements for grease removal devices?**

The City does have requirements for grease removal devices as part of its ordinance pursuant to Division 3.

**Does the FOG control program require the use of BMPs including record keeping and reporting requirements?**

Yes, the City has requirements for the use of BMPs.

**If required, what are the minimum required BMPs?**

The City requires kitchen and restaurant best management practices to be implemented such as installation and maintenance of grease traps and sand traps.

**Does the FOG control program or ordinance provide the authority to inspect grease producing facilities?**

It does not appear that the City ordinance has language for the inspection of grease producing facilities within the City boundaries. The City will be working on the area in the next phase of the SSMP process.

**Does the FOG control program provide the legal authority and ability to enforce the FOG program?**

It does not appear that the City ordinance has language for the enforcement of FOG discharges to the sanitary sewer system within the City boundaries.

**Does the Agency have sufficient staff to inspect and enforce the FOG program or does the agency utilize a contractor for assistance?**

The City does not have enough staff needed to inspect, and enforce a FOG program. The eventual goal was to first establish the program using outside sources. The program would be funded by charges to the establishment. Once established, and after the City gets familiar with the program, they would implement changes to the organization so that in-additional house would take over and enforce the program. In the meantime, the City has hired the services of a private contractor, Rae Beamer, who has done some basic inspection of facilities in the field. A copy of the inspection report is included in the Appendicies.

**Has the Agency identified segments of the collection system that are prone to FOG blockages and has an enhanced cleaning program been established for these trouble areas?**

The City has informally identified segments of the sewer system prone to combined FOG blockages and implemented regular cleaning. A copy of this was included in the 2015 SSMP Audit. A more recent map of these locations will be included in this report as well. This information has not been subjected to a trend analysis. In all of the cases so far, any spills which have occurred in the City's system have been the result of multiple factors not just FOGs accumulations.



**Has the Agency developed source control measures for all sources of FOG that discharge into known trouble areas?**

*It does not appear that the City has any hot spots solely resulting from FOG blockages or has established source control measures in place other than language in the City ordinance. This language describes prohibitions on the discharge of any materials or obstructions that have the potential to clog, obstruct or fill the sewer or will interfere with or prevent the effective use of the sewer system.*

**9.5 Recommendations**

*The City of Pomona will need to develop and implement a comprehensive FOG program with the requirements described in the WDRs, in addition to the language within the City's ordinance. For this reason, it is important for the City to conduct its own investigation of "hot spots" caused by FOG so that it can begin to enforce the FOG program requirements. The process should begin with a detailed assessment of the sewer system problems. As SSOs occur, they can be included in a GIS system that includes the sanitary sewer system within the City. The following is a list of projects that can be developed utilizing a sewer system GIS:*

- *Inventory and Characterize Potential FOG Sources*
  - *GIS Application for the identification of sewer system blockages due to FOG and their potential sources*
  - *Identify and color code sewer collection lines subject to blockage*
  - *Identify and plot all SSOs resulting from FOG blockages*
  - *Development of a GIS based "hot spots" application for regular cleaning with query and reporting capabilities on the frequency of the said cleaning by location/date*
  - *Development of a GIS based "source identification" application to identify and plot potential sources of FOG in "hot spot" areas*
  - *Include query and reporting capabilities to view the current land use, past inspection reports and the condition of grease removal equipment installed at these potential sources:*
    - *Food service establishments (including restaurants, hospitals, nursing homes, grocery stores, caterers and commissaries)*
    - *High density multi-family dwellings*
    - *Residential – single family dwellings*
    - *Food manufacturing (industrial)*
  - *Develop legal authority to impose FOG program requirements*
    - *Additional ordinance language, if necessary*
    - *Inspection program*
    - *Jurisdiction's regulatory authority over private and public property*
  - *Monitoring and enforcement*
  - *Inspection, utilizing the sewer system GIS*
    - *Based on the "hot spot" source identification application, develop a prioritized inspection schedule to target establishments that are in FOG prone areas*
    - *Inspect food service establishments regularly*
    - *Inspect grease interceptor and grease traps regularly*



- Integrating the inspection results into a GIS based Computerized Maintenance Management System



- Enforcement, utilizing a GIS based Code Enforcement Module
  - Ensure due process within defined legal authority
  - Escalating enforcement structure
- Lastly, specific sections of the 2013 SSMP need to be address the following items:
  - **Section 6.2:** City has initiated an initial survey of Food Service Establishments but it is not complete. Additional surveys will have to be conducted to include schools and convalescent homes.
  - **Section 6.4:** Staff has reached out to public by creating a booth at the Los Angeles County Fair in September 2015; FOG brochures in Spanish and English were handed out by staff;
  - Public outreach: Did not hold the Annual Public Works Fair in 2015; they continue to pass out fliers and other public events



- The City still has obtained a list of acceptable disposal facilities per the LACSD; even with this, the City is still struggling with this since we may be seen as endorsing certain private firms; this is discussed in the guidance manual
- The City has not yet established standard details for grease trap installations
- There has been no changes to the (Disaster Discharges) in the City ordinance as of yet
  - There has been changes to the High Frequency Maintenance Locations (Hot Spots) as repairs are made through the CIP program

### City of Pomona Restaurants Inspected in the Past Year





## **SECTION 10 - System Evaluation and Capacity Assurance**

**D. 13 (viii) System Evaluation and Capacity Assurance Plan:** The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

(a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;

(b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and

(c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.

(d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14





## 10.1 Overview

This element of the SSMP includes several major programs and activities regarding development of a capital improvement plan and hydraulic analysis. Most of the requirements would be satisfied by a recent collection system master plan.

## 10.2 Purpose

An important step in attempting to minimize the amount of SSOs in a given system, one must determine how the system will react to different conditions and stresses. Once this is achieved, City officials can identify areas in need of improvement and prioritize projects for a capital improvement program.

## 10.3 Minimum Requirements

At a minimum, each enrollee must:

- 1) Describe the methods used to identify areas of the sanitary sewer system that lack the sufficient capacity to convey an appropriate peak flow;
- 2) Establish consistent design criteria;
- 3) The identification of capacity needs and the approach used to take the results of the capacity evaluation to produce a prioritized list of capacity improvement projects; and
- 4) The development of a project schedule that addresses both condition-related and capacity-related projects.

## 10.4 Evaluation

### ***Has the City had a recent collection system master plan done?***

*Yes, the City of Pomona is currently completing a comprehensive sanitary sewer master plan as part of the 2017 Strategic Plan. In addition to the system overview, population projections, a hydraulic model, and a CIP program. The goal is to develop flexible reporting tools like Sedaru® for staff that can be used to predict future impacts. Also, the hope is that we can develop ways to get the word out quicker and more consistently with immediate staff, upper management, and residents. So, in this regard, it is a departure from our normal master planning efforts.*

### ***Has the City performed a hydraulic capacity study to identify areas within the system that are contributing to SSOs?***

*The City of Pomona has a hydraulic model that includes 10 inch and larger diameter pipes that was developed for the 2005 Sewer Master Plan. However, these pipes constituted only 15% of the system and therefore another hydraulic modeling encompassing 100% needs to be developed. The Strategic Plan includes the development of a sewer hydraulic model that incorporates mains 8" and larger and the latest GIS database. This model will reflect at least 98% of the City's sewer conveyance system. The consultant, RMC, is completing the data gathering stage prior to constructing the model. Preliminary stages of the model are included in the Appendices.*



**Does the City have an established CIP to address hydraulic deficiencies, including prioritization alternatives analysis, and schedules?**

The City has adopted a CIP that has been based on the 2005 Sewer Master Plan and the CCTV work performed in 2010. However, the hydraulic modeling to date does not include 75% of the system that are 8 inches in diameter or less, and focused the modeling on 10 inch and larger diameter pipes. This potentially omitted 8 inch or smaller pipes that were hydraulically deficient and therefore needed to be addressed in future the CIP projects. The City currently has a contractor to address red flags (breaks and offsets). It is expected that next year another contract will be developed to address remaining red flags. By this time, the City will have been able to run a complete hydraulic analysis of the sewer system and be able to identify design deficiencies for a subsequent contract.

As part of the sewer rate study being undertaken, the City is working to create an annual CIP program that will address aging sewer pipelines, equipment, hardware and software on an annual basis. One of the goals is to review pipelines and recommend replacement/rehabilitation based on age, location, access, risk, and other factors. Another goal of the rate study is to develop a sinking fund to set aside money for aging equipment. Lastly, the City is exploring new CCTV technology. The current platform from CUES is no longer supported so they are acquiring some new technology from WinCan that will provide the following benefits:

- The new camera is smaller and can maneuver better; pictures are included in the Appendices.
- The camera truck is smaller than the previous van making it less of a traffic issue
- The CCTV technology is robust in that it can do a variety of features that were not previously available

## 10.5 Recommendations

*The following is a summary of our comments and recommendations:*

1. A comprehensive sewer CCTV program was conducted in 2010 wherein the entire wastewater system was CCTVd by Trans Consulting and in-house wastewater crews. The condition assessment footages along with in-house camera work have initiated an on-going annual repair and rehabilitation CIP program for Sewer Red Flags.
2. A comprehensive manhole inspection program should be developed to complete the initial condition assessment of the City's manholes. Under the 2010 contract, only 25% of the City's manholes were field inspected. Defective sewer manholes and their appurtenances are one of the biggest sources of Inflow and Infiltration and as such need to be evaluated on a regular basis. Due to pavement subsidence, manholes in the middle of a street can still act as area drains with large amounts of rain runoff entering the manhole through lid and frame openings. Infiltration through manhole walls can also allow a large amount of water into the system.



City of Pomona Wastewater System  
2017 Audit Report

**CITY OF POMONA  
MANHOLE CONDITION ASSESSMENT FORM**

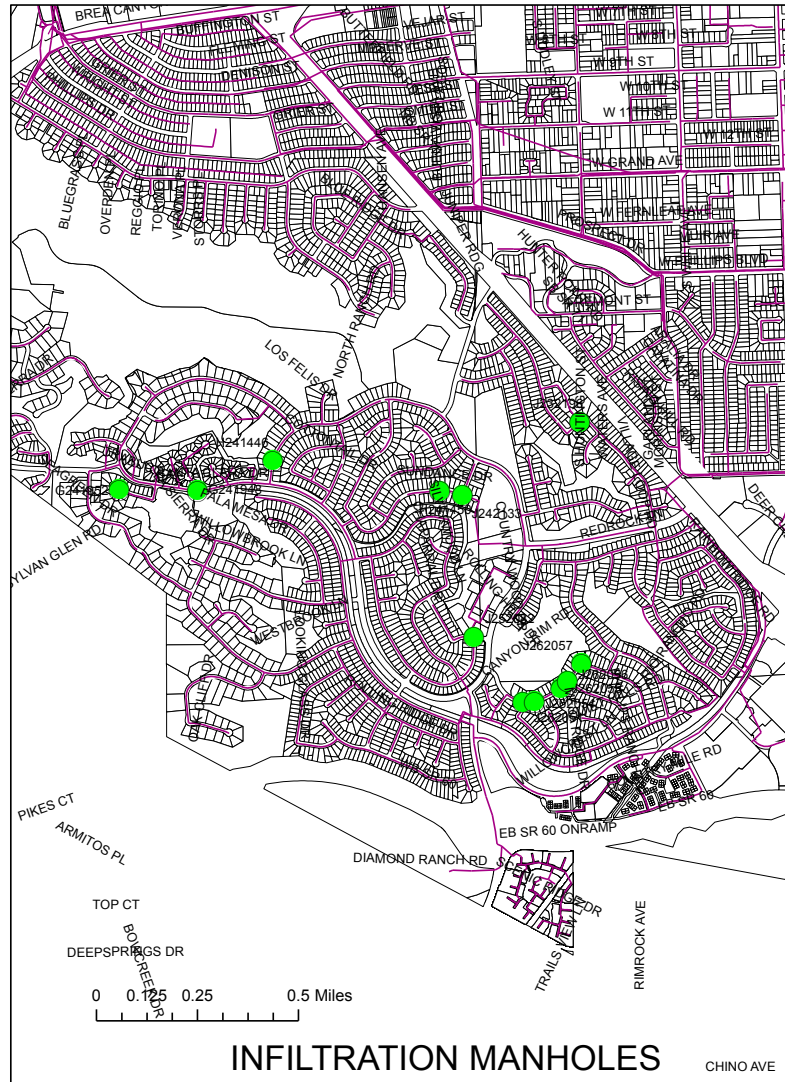
Quadrant #: 4      Inspection Firm: Tran Consulting Engineering      MH ID No.: 3048  
 Inspection Date: 6/24/2009      Inspection Time: 9:16      Field Book Page: N27  
 Patch: No Action      Inspection Crew: Innerline Engineering      Street: COUNTY RD  
 Dispatch Comments:

| DEFECT     | BROKEN* | CORROSION* | ROOTS* | II CODE** | ATMOSPHERE  |
|------------|---------|------------|--------|-----------|---|
| Cover      | -1      | -1         |        |           | Note: All measurements at MH bottom                       |
| Frame      | -1      | -1         | -1     |           |   |
| Frame Seal | -1      | -1         | -1     |           | OXYGEN <span style="float: right;">20.9%</span>           |
| Grade Ring | -1      | -1         | -1     |           | LEL <span style="float: right;">0%</span>                 |
| Riser      | -1      | -1         | -1     |           | H <sub>2</sub> S <span style="float: right;">0 PPM</span> |
| Cone       | -1      | -1         | -1     |           | CO <span style="float: right;">0 PPM</span>               |
| Wall       | -1      | -1         | -1     |           |   |
| Bench      | -1      | -1         | -1     |           |   |
| Trough     | -1      | -1         | -1     |           |   |

\* SEVERITY CODE: 1) MILD: <25%    2) MODERATE: 25-50%    3) SEVERE: >50%  
 \*\* II CODE: 1) INFLOW    2) INFILTRATION

| OBSERVATION           | CODE NO.                         | CODE   |
|-----------------------|----------------------------------|--|
| Access:               | 1                                | 1) DRIVE, PAVED 2) DRIVE, UNPAVED 3) DRIVEWALK < 30' 4) DRIVEWALK > 30'<br>5) NO MAINT. ACCESS, EASY WALK 6) NO MAINT. ACCESS, DIFFICULT WALK<br>7) ON MAINT. ACCESS, EASY WALK, CONTACT PROPERTY OWNER<br>8) NO MAINT. ACCESS, DIFFICULT WALK, CONTACT PROPERTY OWNER |
| Inspection Type:      | 2                                | 1) INTERNAL 2) SURFACE 3) NOT INSPECTED 4) BURIED 5) NOT FOUND   |
| Structure Type:       | 1                                | 1) STND 2) CLN OUT 3) IN DROP 4) OUT DROP 5) ROCK TRAP 6) FILLED IN 7) TEE 8) JUNCTION   |
| Location:             | 1                                | 1) STREET 2) ALLEY 3) SIDEWALK 4) DRIVEWAY 5) PARKWAY 6) YARD 7) PARKING LOT<br>8) STORM DITCH 9) GREEK BED 10) OPEN SPACE   |
| Surface Type:         | 1                                | 1) ASPHALT 2) CONCRETE 3) GRAVEL 4) LANDSCAPING 5) NATIVE VEGETATION   |
| Cover:                | Type: 1                          | 1) PICK 2) CONCEALED PICK 3) GASKETED 4) VENTED 5) STORM 6) 5/8" ALLEN BOLT<br>7) 3/4" ALLEN BOLT 8) PLASTIC 5 BOLT 9) ALFALFA BOLT  |
|                       | Fit: 1                           | 1) GOOD 2) TIGHT 3) LOOSE 4) ROCKING 5) BOLT MISSING 6) GASKET BAD/GONE 7) GOOD O-RING   |
|                       | Seal: 1                          | 1) NONE 2) GASKET 3) SILICONE  |
|                       | Securing: 1                      | 1) NONE 2) STRAPPING BAR 3) ANGLE IRONS 4) 5/8" ALLEN BOLT 5) 3/4" ALLEN BOLT 6) 5 POINT BOLT<br>7) ALFALFA BOLT 8) 6 POINT BOLT 9) BURIED 10) ASPHALT CAP 11) CONCRETE CAP  |
|                       | Size: 24                         | DIAMETER IN INCHES   |
| Frame:                | Offset: 1                        | 1) NO 2) YES   |
| Grade Ring or Riser:  | Type: 2                          | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) PLASTIC 7) MORTAR 8) LINED   |
|                       | Height (in): 18                  | IF > 18" ADD COMMENT   |
|                       | Min. Dia. (in.): 24              | IF < 36" ADD COMMENT   |
|                       | Comment: Riser diameter is < 36" |  |
| Cone:                 | Type: 2                          | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED   |
|                       | Shape: 2                         | 1) CONCENTRIC 2) ECCENTRIC 3) FLAT TOP   |
| Wall:                 | Type: 2                          | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) BRICK/CONCRETE 7) CLAY 8) PVC 9) LINED   |
|                       | Diameter (in.): 48               |  |
|                       | Height (in.): 50                 | IF <= 36" ADD COMMENT "Calculated in field." IN COMMENT SECTION BELOW.   |
|                       | Comment:                         |  |
| Bench:                | Type: 5                          | 1) NONE 2) PRECAST 3) BRICK 4) BLOCK 5) POURED 6) LINED  |
| Trough Type:          | 3                                | 1) NONE 2) PRECAST 3) POURED 4) VCP 5) PVC 6) BRICK  |
| Steps:                | Type: 4                          | 1) NONE 2) BAR 3) CAST IRON 4) PLASTIC 5) PLASTIC COATED STEEL   |
|                       | Condition: 1                     | 1) GOOD 2) CORRODED 3) MISALIGNED 4) BROKEN 5) MISSING 6) UNSAFE   |
| Manhole:              | 1                                | 1) NO 2) YES   |
| MH Insp. Depth (ft.): | 8.67                             | RIM TO BENCH   |
| Surcharge:            | 0                                | 0) NONE, IF SURCHARGE EVIDENT, RECORD DEPTH OF SURCHARGE (INCHES)  |
| Height Above Bench:   |                                  |  |

3. Flow monitoring data showing basins with high inflow and infiltration (as high I/I is indicative of infrastructure defects) and areas with known problems should be investigated first. Field observations also help to gather information needed to make an informed decision on rehabilitation for manholes.



4. Sewers are no longer replaced based on age alone as the majority (87%) of the system is VCP and VCP can last longer than 50 years depending on soil conditions, loadings, root intrusion, and other issues. Only infrastructure needing replacement should be scheduled in the CIP based on age, breaks, CCTV inspections, defect, and pavement conditions.
5. The City adopted a new General Plan in March of 2014. It would be beneficial to re-evaluate land use and corresponding wastewater generation using information from the City's latest General Plan.
6. Only "major" sewers (primarily those 10 inches in diameter and greater) were included and evaluated in the 2005 hydraulic model. There is 45 miles of the 317 miles of gravity



sewers in the City's system, which is 15% of the system. There are 233 miles of 8-inch sewer in the system, which is 75% of the system, which was not included as well as 2.9 miles of 4-inch and 6-inch sewers. All of the sewers will be detailed in the City's sewer GIS for documentation and operation and maintenance purposes. All sewers will be imported into the hydraulic model and evaluated in the hydraulic analysis. Smaller sewers have the same likelihood as larger sewers to be over capacity depending on sewer slope relative to peak flows carried in the sewer. In order to demonstrate capacity assurance and to show due diligence in preventing overflows due to hydraulic deficiencies, the entire sewer system will be hydraulically evaluated with the model. If the City captures mains that are 8" or greater in their hydraulic model, it would be sufficient.

7. There is no standard wet-weather design storm to evaluate sewers with, so sewers should be designed to carry peak dry-weather flows within the appropriate d/D ratios, which were developed so sewers would have capacity to carry wet-weather flows safely. This is industry standard criteria. Sewers with diameters 10 inches and greater (15% of the system) were evaluated in the 2005 Master Plan for peak dry-weather flow capacity with a criterion of no surcharging, i.e. d/D ratio of 1.00 or less, which is too high. It is important to assess sewer capacity with appropriate d/D ratios and also to err on the side of being conservative because the LACSD sewers are not modeled, i.e. a free discharge is assumed, and there could actually be backwater from the LACSD sewers during high flow conditions or due to constrictions or obstructions in their system.
8. Sewers with diameters 10 inches and greater (15% of the system) were evaluated in the 2005 Master Plan for wet-weather flow capacity with a criterion of no surcharging greater than 125% of pipe diameter, which is too high for a 2-year recurrence interval storm. No flow level above the top of pipe should be allowed for recurrence-interval storms less than or equal to 5 years.
9. For the 2005 hydraulic model, wet-weather flows were captured at 14 flow metering sites, but there is no reporting of the magnitude of inflow and infiltration (I/I) metered in the associated meter basins. Wet-weather flow monitoring should be used to identify relative I/I in the basins metered because higher I/I is indicative of sewer system defects that let water into the system. Higher I/I basins should then be investigated via sewer CCTV and manhole investigations to identify and rehabilitate the defective infrastructure components. Considering the size of the City's sewer system, more meters are needed to identify I/I in more areas of the system. This information should then be reported in the master plan and then used to investigate the system where high I/I is occurring.
10. A Sewer Rate Study is being conducted to ensure that the entire cost of the CIPs as well as other elements of WDRs are incorporated. This should include fees for the FOG program, including, equipment replacement, new regulations, inspections and FOG mitigation.
11. There is a new development regarding sewer laterals. It seems that the Gas Company is investigating areas where their soil boring may have penetrated sewer laterals creating potential blockages. When they encounter such an instance, they inform the customer and repair the lateral.



## **SECTION 11 - Monitoring, Measurement, and Program Modification**

### **D.13 (ix) Monitoring, Measurement, and Program Modifications:** The Enrollee shall:

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

### **11.1 Overview**

It is critical that the City monitors implementation of the SSMP elements, and measures the effectiveness of SSMP elements in reducing SSOs. Effectiveness should be measured by developing and tracking performance indicators on a regular basis. Performance indicators should be selected to meet the goals of the wastewater collection system agency.

### **11.2 Purpose**

In order to effectively manage programs, performance measures that gauge success should be developed and data to support the findings must be collected. To this end, accurate and consistent data keeping is extremely important for successful sewer system management. It is imperative that the correct data is captured, in a format that is easily extractable, and that operations personnel understand their role in this process. Focus should be placed on performance metrics, components of trend tracking, and bench-marking procedures both internally and externally. Based upon data collected decisions can be made as to changes that may be warranted and needed in order to maximize program efficiencies. Setting up a Monitoring, Measurement, and Program Modification program will allow a community to better manage and implement SSMP programs.

### **11.3 Minimum Requirements**

At a minimum, the enrollee must:

- a. Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
- b. Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
- c. Assess the success of the preventative maintenance program;
- d. Update program elements, as appropriate, based on monitoring or performance evaluations; and



- e. Identify and illustrate SSO trends, including: frequency, location, and volume

#### 11.4 Evaluation

***Has the City developed and do they maintain a data management system necessary to collect adequate information regarding their SSMP programs?***

*The City maintains a data management system that tracks program performance so as to report its findings to executive management on sanitary sewer system performance. The Department is in the process of developing a reporting program, known as Sedaru®, to make this effort more readily available. Sedaru® Real-time communications and predictive analytics will help the City leverage its business data for findable, shareable, actionable insights, understand and prepare for impacts while minimizing risk, and coordinate and optimize response to operational events. A couple of screen shots from the program have been included in the Appendicies..*

*We are also still investigating the possibility of embracing CityWorks as our work management system for sewer and water.*

***Was this data management system developed in a manner that collects relevant information, necessary to determine program effectiveness?***

*Yes, it is being developed to report on what is currently happening as well as possible scenarios. The program is expected to be able to extract information from the sewer hydraulic model, financial information, GIS, and CIP progress.*

***Have data reports been developed, which measure the effectiveness of SSMP programs?***

*Yes; it does appear that reports have been developed that measure SSMP program effectiveness by establishing KPI such as miles of cleaning and number of SSOs per year. As the Sedaru® program becomes more common place, I would anticipate that the City will establish more KPIs.*

***Are program indicators and measures, as well as relevant data reports reviewed on a regular basis?***

*The City of Pomona has implemented a cleaning program that targets cleaning of every sewer line segment on an at least 1.5 years basis. The footages cleaned on "dailies" are no longer kept in written format. With the advent of Sedaru®, Staff enters the location and length of the cleaning totals on a tablet. It automatically uploads the data into the Sedaru® program which allows Mr. Lopez to query what work had been performed today and in the past. The program also highlights the area on the screen A copy of a screen shoot is included in the Appendicies.*

#### 11.5 Recommendations

*The City should continue to develop a reporting program that focuses on collecting data from all relevant sources which will provide the City with critical information associated with the performance of the City's sanitary sewer system and associated programs. The City should begin to communicate with all relevant agencies on a regular basis (at a minimum monthly) to go over both the progress and performance of all programs, as well as issues that arise during the subject time period.*



*The City has evaluated various Computerized Maintenance Management System (CMMS) to help track all Personnel, Equipment, and Material. One such program that appears to meet their needs is the CityWorks program. Whichever program is chosen, the system must be integrated with GIS to help with trend analysis for Hot Spots, FOG, SSO mapping as well as CIP tracking. Furthermore, a system for communication and data submittals that are associated with SSOs and sewer backups that are reported to the online SSO database should be developed. A matrix of Key Performance Indicators should be developed that would help the City develop its Measurement, Monitoring and Reporting Procedures (MMRP).*

*Lastly, **Section 11.2** should be modified to reflect Mr. Poulsen's new job title.*





## **SECTION 12 - Program Audit Procedures**

**D.13 (x) SSMP Program Audits** - As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

### **12.1 Overview**

Audit programs are intended to provide controls for ensuring that all programs associated with the SSMP are being implemented as planned and managed appropriately. Audit outcomes should provide information about challenges and successes in implementing the SSMP by evaluating work practices and operations, documentation, procedures records and staff for implementation effectiveness and consistency. The audit will identify any program or policy changes that may be needed to continually improve effective implementation. Information collected as part of an audit should be used in to plan program or procedure revisions necessary to improve program performance.

### **12.2 Purpose**

SSMP audit program development should be developed specifically for the sanitary sewer system, but agency-wide procedures should be incorporated to ensure program sustainability. The audit can contain information about successes in implementing the most recent version of the SSMP, and identify revisions that may be needed for a more effective program. Information collected as part of the Monitoring, Measurement, and Program Modifications program should be used in preparing the audit. Quite often, performance measures and other management indicators are developed, providing a baseline that performance can be measured against. Tables, figures, and charts can be used to summarize information about these indicators. An explanation of the SSMP development and accomplishments in improving the sewer system should be included in the audit, including:

- Progress made on development of SSMP elements, and if the sewer system agency is on schedule in developing all elements of the SSMP;
- SSMP implementation efforts over the timeframe in question;
- The effectiveness of implementing SSMP elements;
- A description of the additions and improvements made to the sanitary sewer collection system in the past reporting year; and
- A description of the additions and improvements planned for the upcoming reporting year with an estimated schedule for implementation.



### 12.3 Minimum Requirements

The WDR requires that all agencies develop appropriate audit procedures necessary to evaluate the effectiveness of the SSMP, as well as the agency's compliance with all requirements identified in the WDR. The audit must identify any deficiencies in an agency's SSMP programs and include steps to correct these issues. At a minimum, audits must be conducted every two years and a report of the findings must be prepared and kept on file.

### 12.4 Evaluation

***Has an audit program been developed to ensure programs are being implemented as intended?***

*Yes; this will be the second audit after the 2013 SSMP utilizing WDR approved audit checklist.*

***Are programs developed with a clear understanding of expectations?***

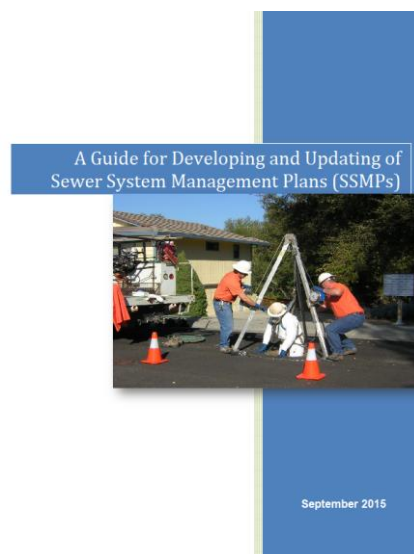
*Yes; discussions take place between Engineering and the Wastewater Supervisor on KPI, new nozzle acquisition, training, etc. The Engineering Division is situated at the Yards so there is daily interaction with Wastewater staff to discuss operational issue as they arise.*

***Have performance measures been identified and benchmarks established to determine programmatic success?***

*Yes; there are KPIs for SSO per mile and line cleaning goals.*

***Do audit checklists exist that focus on compliance as well as continual improvement?***

*Yes; in developing this audit, BACWA Checklist was evaluated as well as other related references*



***Has an individual been assigned to perform the audit?***



Yes; Raul C Garibay

**Is there a process to utilize outside organizations to perform audits?**

Yes, as in 2012, the City did can go outside to procure the services of an outside firm to conduct an audit. This audit, however, is being performed in-house to reduce operating costs.

**Does the entity performing the audit have enough authority to carry out all necessary data gathering?**

Yes.

**Does your agency's executive management fully support and authorize the audit procedures?**

Yes, the City's management and Council would support and authorize the audit procedures.

**Are audit finding and reports reported directly to agency management?**

Yes.

**Are random interviews conducted throughout the organizations and at all levels within the organizations hierarchy that may provide beneficial information regarding staff procedures and staff's knowledge of those procedures emphasizing identification, problem solving, and prevention opportunities?**

No.

**Does the communication to staff focus on the purpose of the audit to ensure effective staff participation in the audit process, (The audit is part of the SSMP implementation, not of individuals)?**

No.

## 12.5 Recommendations

*The City needs to continue to implement an audit program that addresses the questions identified above. There should be one or two individuals designated internally that are charged with performing these audits on a regular basis. These individuals should report their findings to the LRO and City Council and utilize the results to effect needed changes. Additionally the audit program should address:*

- Document Control
- Training
- Targets and Objectives
- Data Management
- Documented Procedures
- Outcomes



## **SECTION 13 - Communication Program**

(xi) **Communication Program** – The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented. The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee’s sanitary sewer system.

### **13.1 Overview**

Communication programs are often underrated and overlooked. However, an effective communication program may end up being the key element that keeps your organization from missing critical SSMP deadlines. Involving the public early and at appropriate times will help your organization avoid last minute comments that delay approval of your SSMP by your governing body. A quality communication program with satellite agencies will help to minimize negative operational impacts on your plant or collection system.

It is important to identify an individual who will be responsible for development of your communication program. Larger agencies will typically have Communications and Media Officers or Public Information Officers who are appropriate to lead the development of the communication program. Smaller agencies who don’t have these staff in-house should look to those within the agency who have exhibited strong writing skills, public speaking skills, experience with customer interface, or have successfully completed controversial projects. A self-assessment and rough timeline follow to help you on your way to a successful communication program!

### **13.2 Purpose**

Identifying key stakeholders and key issues, and thinking about how various stakeholders might react is the first step to developing a communication plan. Understanding what elements of an SSMP they will be most concerned with, is one of the many potential considerations that an agency may identify. Involving the right stakeholders on potentially controversial issues as early as possible is important to the success of any new program. Emphasizing collaboration and shared goals to reach a workable solution will not always ensure buy off, but will promote ownership and understanding. Avoiding proper outreach efforts for controversial issues in the hope that interested parties won’t catch on usually backfires. These issues should be considered when developing a communication program.

### **13.3 Minimum Requirements**

- a) The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.



- b) The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

#### 13.4 Evaluation

**Have resources necessary to solicit and incorporate input on each phase of your SSMP (development, implementation, and performance), as well as document your outreach, efforts been identified?**

*The City has posted the 2013 SSMP and 2015 audit on the Web Site. In addition, there have been efforts made to make its presence known at various community events such as the LA County Fair and the City's Beautification Day.*

*One of the components of Strategic Plan was to perform a SWOT Analysis on Communication for the Department. Although the results are being reviewed and categorized, there were some initial areas that may be used to get the word out better:*

- *Use of social media outlets like Twitter and Facebook*
- *Making a video that can be shown on Public Channel*
- *Attending neighborhood associations*

*A copy of the SWOT Matrix dealing with communication is included in the Appendicies.*

**Have a lists of stakeholders who will be interested in each phase of your SSMP been developed?**

*It does not appear that a list was established.*

**Have key milestones in each phase of your SSMP when stakeholder input would be most useful and effective been created?**

*Based upon information provided by the City, it does not appear that the above has been completed.*

**Has a convenient way for your stakeholders to provide input at appropriate milestones during each phase of your SSMP been identified?**

*Based upon information provided by the City, it does not appear that the above has been completed.*

*Although efforts have been made to interact with the media, very few residents ask questions that require follow-up.*

**Have all tributary and/or satellite systems to your organization's sanitary sewer system been identified?**

*Yes, those satellite agencies include the city of La Verne and the City of Claremont, Pomona Unified School District and Cal-poly Pomona University.*



**Has an individual within your organization who is responsible for interface with satellite systems been identified?**

Yes: Raul Garibay.

**Has a list of key information you would like to communicate to satellite systems, as well as key information you would like them to communicate to your organization, been developed?**

Yes; there were attempts to meet with the City of Claremont, City of La Verne and Cal-Poly Pomona. Staff followed up with verbal and face-to-face discussions with each agency.

Staff was able to conduct some meetings with both La Verne and Cal Poly Pomona.

### 13.5 Recommendations

*Develop a communication program that addresses the above evaluation questions. Additionally, the City may want to consider addressing the following issues:*

- Identify resources necessary to solicit and incorporate input on each phase of your SSMP (development, implementation, and performance), as well as document your outreach efforts. With the advent of the Strategic Plan, it is hoped that some additional direction will come forth and be implemented.*
- Identify key community stakeholders and key issues that various stakeholders may be interested in and/or concerned with.*
- Make sure to involve the right stakeholders on potentially controversial issues as early as possible. Emphasize collaboration and shared goals to reach a workable solution.*
- Create a list of key milestones in each phase of your SSMP when stakeholder input would be most useful and effective.*
- Create a convenient mechanism for stakeholder input. Additionally, key considerations, while developing a communication program. It is believed by getting the face of the Department in the Public, we will be able to generate more interest and hence more feedback.*
- Continue to develop of a variety of communication methods, including newsletters, public meetings, web pages, and public service announcements. Different agencies will find that different communication methods are effective. Look for a method that reaches the desired audience at a reasonable cost. The City is exploring the use of social media outlets such as Facebook, Twitter and Channel 29 public television to get the word out.*
- The Department has utilized the Weekly Report to inform the City Council of significant wastewater events that have or will occur. As in the case of the sewer spill in the City of Claremont, staff was requested and assisted in the clean-up of the sewer spill in Claremont along Indian Hill Blvd.*



- *Consider joint efforts to develop a website with other agencies or professional organizations and share costs. The website could contain general information about the new Waste Discharge Requirements and SSMP components provide space to make documents available for public review, and contain contact, meeting times and locations, and other agency-specific information.*
- *For communication with other satellite agencies, continue regular coordination meetings, annual surveys for changes in their system, and/or web pages devoted to satellite agency issues.*



## 2013 SSMP Appendicies Review

In addition to the updates and/or deletions from the 2013 SSMP, the following Appendicies items need review and possible updating:

- **Appendix A, Excerpts for Pomona's City Code:** No change required
- **Appendix B, Recommended Legal Authority:**
  - Need to review and move forward with making changes to the City Ordinance
  - The definitions provided in the City Ordinance need to be updated
- **Appendix C, City of Pomona Operations and Maintenance Program:**
  - Not much discussion on manhole inspections; the only record of such inspection was performed by Trans Consulting and that only covered 15%; need to talk about what will be done in the future to bring that up to a larger and reasonable inspection ceiling
  - Need to develop a program for identifying and recording sewer easements; especially those that are deemed in accessible; need to put together a schedule for doing this work; who knows, as a result of finding these easements, it may require or be in the best interest of the City to relocate the facilities in its entirety
  - Talk about new repair technologies for manholes and pipelines (especially the joint repair in place) as presented at events such as Tri State Seminar;
  - It does not appear that the equipment and material inventory lists have been updated
  - **Figure 12-1:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
- **Appendix D, City of Pomona Sanitary Sewer Overflow Emergency Response Plan:**
  - **Table 2-3:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment B, Sewer Service On-Call Response Personnel:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment E, Sanitary Sewer Overflow Notification List:** Needs to reflect Darron's new position and title; also, need to remove the reference to the PW Director
  - **Attachment G, Possible Methods for Estimating Spill Volume:** Based upon the presentation at the last Tri-State Seminar, the City's methods do not include the bucket method; different ways to measure; point is to come up with ways to confirm spill number
- **Appendix E, City of Pomona's Fats, Oil, and Grease Control Program Characterization Study:**
  - **Page 8:** Remove reference to the Utility Services Director and replace with the Water/Wastewater Operations Director, Darron Poulsen
- **Appendix F, City of Pomona Fats, Oil, and Grease Control Program:**





- No formal program has been developed yet
- Talk about the initial inspection list of FSEs
- **Appendix G, City of Pomona Sewer Design Policy and Standard Drawings:**
  - **Section 4.2**, Talk about the in place joint repair system from the Tri-State Seminar that places a “packer type sleeve” in the pipe; also include the presentation from Mr. Badgley and the application of polyethelene lining to perform manhole repair
  - For the 2018 SSMP, the Standard Drawings that have been adopted since the 2013 SSMP need to be included
- **Appendix H, Sewer Lift and Force Main Transfer:** Continue to work with the LACSD to turn over all of the remaining force mains; staff has been in discussion to involve them in the design of duplicate force mains to ensure the eventual transfer of force mains for all of the remaining Pump Stations.
- **Appendix I, WEF Flyers, Council Presentation, PW Week:**
  - Need to include pictures of the regional Award as well as the State award; maybe be good to provide the picture of the City being noted or recognized in San Diego
- **Appendix J, 2010 and 2012 SSMP Audits:** No change required; for the 2018 SSMP, the 2015 and 2017 audits should be inserted here
- **Appendix K, Satellite Agreements:** No change required



# 2017 AUDIT APPENDICIES

- Pomona's Past 3 Year Spill History
- Preliminary Sedaru® Hydraulic Model
- Draft SWOT Matrix for Communication
- Snap Shots of CIWQS Web Site for Pomona
- Transferring Pomona Force Mains to LACSD
- Pomona's Sanitary Sewer Map
- Current Spray Nozzles Used
- Foaming Chemicals and Applicator
- Photos of the "Sewer Spill" Signs
- CalFOG Listing of Facilities Accepting Grease
- CalFOG List of Grease Haulers in LA County
- Copy of the City's FOG Inspection Forms
- New Camera Truck
- Sedaru® Print Out showing one of the WW Mains Cleaned Last Week
- LA County Public Health Listing of Septic Systems
- New Standard Sewer Drawings

## SSO Public Report - Detail Page

Here is the detail page of your SSO public report search for the selected region, responsible agency, or collection system. These results correspond to the following search criteria:

### SEARCH CRITERIA: [\[REFINE SEARCH\]](#)

- **WDID (4SSO10418)**
- **Spill Type (sso\_cat1\_2\_3)**
- **Start Date (01/01/2015)**
- **End Date (11/30/2017)**

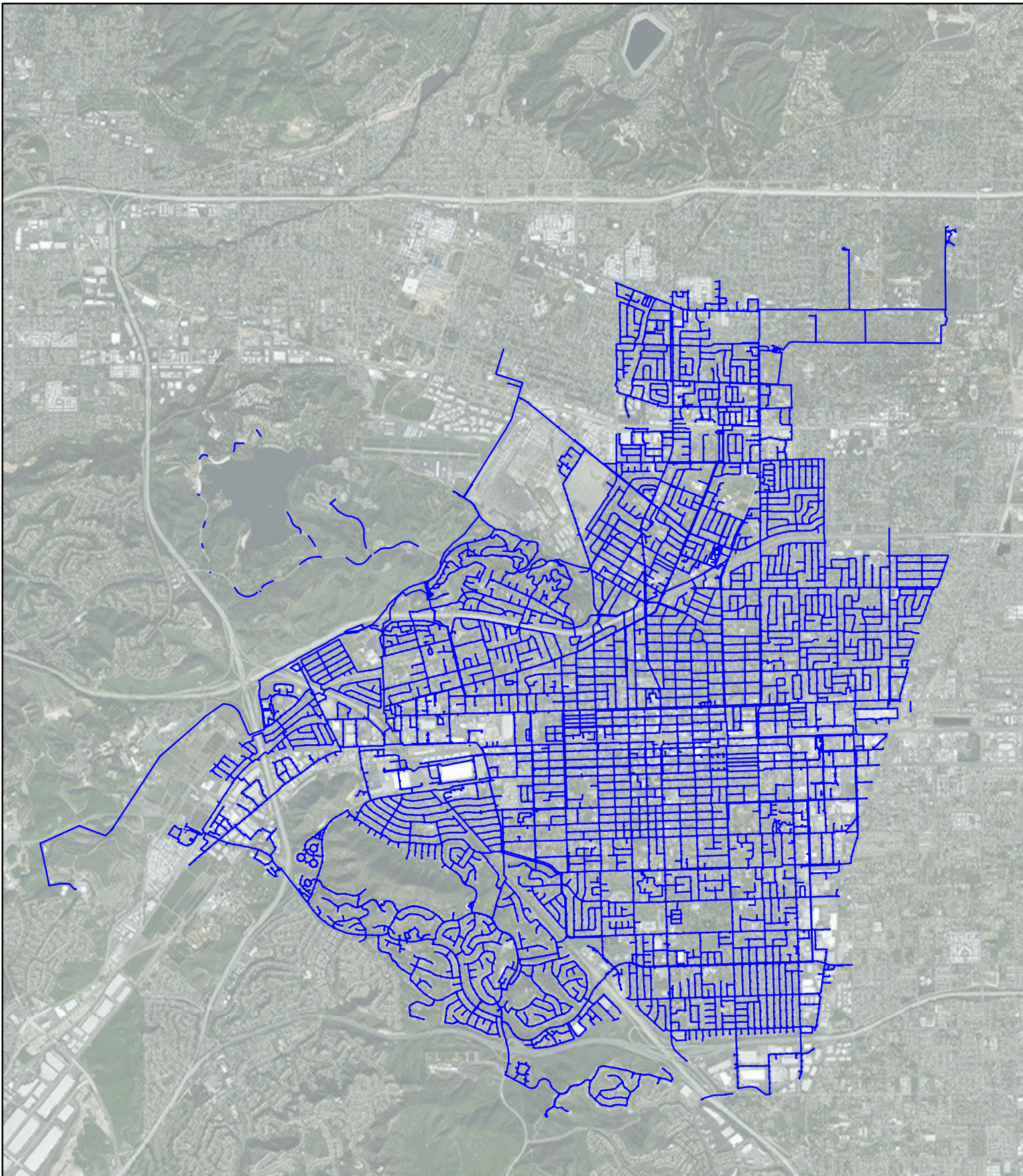
The table below presents important details for all sewage discharge locations, as submitted through individual SSO reports, which meet the search criteria selected. If data is not shown for a particular field, it means the Enrollee did not provide the information and was not required to do so. To view the entire SSO report for a specific sewage discharge location, please select the corresponding EVENT ID.

### DRILLDOWN HISTORY:

REGION:

| <u>EVENT ID</u>        | <u>Region</u> | <u>Responsible Agency</u> | <u>Collection System</u> | <u>SSO Category</u> | <u>Start Date</u>     | <u>SSO Address</u> | <u>SSO City</u> | <u>SSO Vol</u> | <u>Vol of SSO Recovered</u> | <u>Vol of SSO Reached Surface Water</u> | <u>SSO Failure Point</u> | <u>WDID</u> |
|------------------------|---------------|---------------------------|--------------------------|---------------------|-----------------------|--------------------|-----------------|----------------|-----------------------------|---|--------------------------|-------------|
| <a href="#">806443</a> | 4             | Pomona City               | Pomona City CS           | Category 3          | 2014-05-26 09:30:00.0 |                    |                 | 900            | 0                           | 0                                       | Gravity Mainline         | 4SSO10418   |
| <a href="#">817361</a> | 4             | Pomona City               | Pomona City CS           | Category 3          | 2015-07-18 10:00:00.0 |                    |                 | 5              | 5                           | 0                                       | Manhole                  | 4SSO10418   |
| <a href="#">826456</a> | 4             | Pomona City               | Pomona City CS           | Category 1          | 2016-07-15 08:30:00.0 |                    |                 | 150            | 0                           | 150                                     | Pump Station-Power       | 4SSO10418   |
| <a href="#">831152</a> | 4             | Pomona City               | Pomona City CS           | Category 1          | 2016-12-26 08:30:00.0 |                    |                 | 7,940          | 0                           | 7,940                                   | Gravity Mainline         | 4SSO10418   |
| <a href="#">831442</a> | 4             | Pomona City               | Pomona City CS           | Category 1          | 2017-01-01 07:59:00.0 |                    |                 | 17,640         | 0                           | 17,640                                  | Gravity Mainline         | 4SSO10418   |
| <a href="#">832496</a> | 4             | Pomona City               | Pomona City CS           | Category 1          | 2017-02-04 14:23:00.0 |                    |                 | 940            | 0                           | 940                                     | Gravity Mainline         | 4SSO10418   |
| <a href="#">833446</a> | 4             | Pomona City               | Pomona City CS           | Category 3          | 2017-03-01 12:45:00.0 |                    |                 | 800            | 800                         | 0                                       | Gravity Mainline         | 4SSO10418   |

The current report was generated with data as of: Thursday, November 30, 2017



Appendix - Sedaru's Pomona Water System Network

**City of Pomona  
Water System Network**

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Communication**

| <b>Visionary Statement</b>  | <b>Strategy</b>   | <b>Goal</b>  | <b>KPIs</b>  | <b>Actions</b>  | <b>Due Date</b> | <b>Lead</b>          |
|---|---|--|--|---|-----------------|----------------------|
| Establish ongoing outreach to ensure City Council understanding of WWO's activities and performance | Maximize the opportunities to speak and engage with Council Members                   | Participate in community events attended by Council Members                  | # of community events attended   | Review community events and develop a schedule for attendance                                       | 2017            | Raul                 |
|   |   | Attend City Council meetings   | # of City Council meetings attended  | Develop a schedule for attendance   | 2017            | Darron/Raul          |
|   |   | Utilize technology to provide continuous updates                             | Website and social media updated   | Assign an employee to develop a website and maintain social media.                                  | 2017            | Raul/Nichole         |
|   |   |  | # of presentations to City Council using identified technology             | Identify opportunities to leverage technology and software at City Council meetings, such as Sedaru | 2017            | Raul/Nichole         |
|   | Establish scheduled presentations to City Council regarding activities or performance | Track City Council issues and actions  | # of City Council water/wastewater committee meetings attended             | Assign an employee to track City Council issues and actions   | 2017            | Dana/Melissa         |
|   |   |  | Schedule periodic updates to the ad hoc committee                          | Develop a schedule for providing periodic updates to the ad hoc committee                           | 2017            | Dana/Melissa         |
|   |   | Present cost of service study/rate study                                     | Presentation to City Council on cost of service study/rate study completed | Develop a presentation for the cost of service study/rate study                                     | 2017            | Damien/Dana          |
|   |   | Provide annual report on utility department accomplishments                  | Annual report developed  | Develop a standard annual report on utility department accomplishments                              | Annual          | Dana/Melissa         |
|   | Establish consistent messaging regarding strategies and goals                         | Present Strategic Plan   | Presentation to City Council on Strategic Plan completed                   | Develop a presentation for the Strategic Plan   | 2017            | Tim/Raul/Damien      |
|   |   | Provide updates on KPIs  | Report cards developed   | Develop a "report card" to report progress in meeting strategies and goals                          | Annual          | Darron/Gary          |
| Establish customer awareness of WWO's activities and performance                                    | Participate in community events   | Develop public outreach materials for booths                                 | # of community events attended   | Assign an employee to develop outreach materials  | 2018            | Darron/Raul          |
|   |   | Maintain a schedule for attendance at community events                       |  | Review community events and develop a schedule for attendance                                       | 2018            | Darron/Raul/Gary     |
|   | Make presentations to City Council on activities and performance                      | Present completed studies, plans and accomplishments to the City Council     | # of City Council presentations made                                       | Develop presentations for City Council on completed studies, plans and accomplishments              | ongoing         | Darron/Raul          |
|   | Make presentations to community groups and schools                                    | Maintain educational materials for presentation                              | # of community group and school presentations made                         | Develop educational materials for presentation  | 2018            | Dana/Melissa         |
|   |   | Maintain a schedule and locations for presentations                          |  | Develop a schedule for community groups and school presentations                                    | 2018            | Dana/Melissa         |
|   | Utilize technology for communication  | Develop a public outreach website for the WWO                                | Website developed and maintained   | Assign an employee to develop a website   | 2018            | Dana/Melissa/Nichole |
|   |   | Develop protocols for outreach on social media (facebook, twitter, etc.)     | Social media developed and maintained                                      | Assign an employee to maintain social media accounts  | 2018            | Dana/Melissa         |
|   | Conduct tours of facilities   | Maintain a standard tour program   | # of tours given   | Develop a standard tour program   | 2018            | Dana/Melissa         |
|   |   | Conduct outreach to groups regarding availability of tours                   |  | Advertise availability of tours on website and in presentations                                     | 2018            | Dana/Melissa         |
|   | Establish brand and messaging for WWO   | Develop a new Department name  | Contest conducted  | Conduct contest within the WWO to develop a new Department name                                     | 2018            | Dana/Melissa         |
|   |   | Leverage information from strategic plan to develop messaging                | Brochure developed   | Summarize strategic plan messaging into a brochure  | 2018            | Dana/Melissa         |
|   | Establish a better understanding of the community                                     | Develop a survey to better understand the community's view of the Department | % of customers surveyed per year   | Conduct a community survey  | ongoing         | Dana/Melissa         |
|   | Establish a presence in professional organizations                                    | Attend professional organization meetings                                    | # of professional organization meetings attended                           | Identify relevant professional organizations and schedule meeting attendance                        | ongoing         | Darron/Raul/Gary     |

**Appendix - Draft SWOT Matrix for Communication**

| Visionary Statement  | Strategy  | Goal   | KPIs   | Actions   | Due Date | Lead                                    |
|--|---|--|--|---|----------|---|
| Establish standard emergency communication protocols to the community          | Establish a reverse-911 system  | Identify funding for implementation of a reverse 911 system                                  | Reverse 911 system implemented                                       | Research funding opportunities for a reverse 911 system                   | ongoing  | Darron/Damien                           |
|  | Divide customer base by geographic location for contacting residents                        | Use GIS system to identify addresses impacted by WWO activities or emergencies               | GIS system updated with emergency contact information and maintained | Update GIS system with necessary contact information                      | ongoing  | Dana/Melissa/Nichole                    |
|  | Utilize technology for communication  | Develop a public outreach website for the WWO  | Website developed and maintained<br># of times website accessed      | Improve existing website through use of City's existing IT contractors    | 2018     | Nichole/Interns<br>Dana/Melissa/Nichole |
|  |   | Develop protocols for outreach on social media (facebook, twitter, etc.)                     | Social media developed and maintained                                | Assign an employee to maintain social media accounts                      | ongoing  | Dana/Melissa/Nichole                    |
| Establish standard emergency protocols for coordinating with other Departments | Establish standard emergency protocols for coordination with other departments and agencies | Maintain an SOP for emergency protocols and coordination with other departments and agencies | Emergency protocols SOP developed                                    | Develop the emergency protocols SOP                                       | ongoing  | Darron/Raul/Gary                        |
|  |   | Involve multiple departments in training exercises   | # of training exercises conducted with other departments             |   | ongoing  | Darron/Raul/Gary                        |
|  | Coordinate with the safety officer regarding protocols for EOC and FEMA emergency training  | Establish an annual EOC exercises that requires cross-departmental coordination              | Protocols for EOC and FEMA training developed                        | Meet with safety officer to establish protocols for EOC and FEMA training | ongoing  | Darron/Raul/Gary                        |
|  |   | Conduct training on FEMA processes   | Emergency training budget included in annual budgets                 | Include budgets for training in cost of service/rate studies              | ongoing  | Darron/Raul/Gary                        |
|  | Leverage working relationships with neighboring agencies to develop mutual aid agreements   | Evaluate the costs and benefits for cooperation with other agencies                          | Mutual aid agreements developed                                      | Complete the cost/benefit evaluation                                      | ongoing  | Darron/Damien                           |

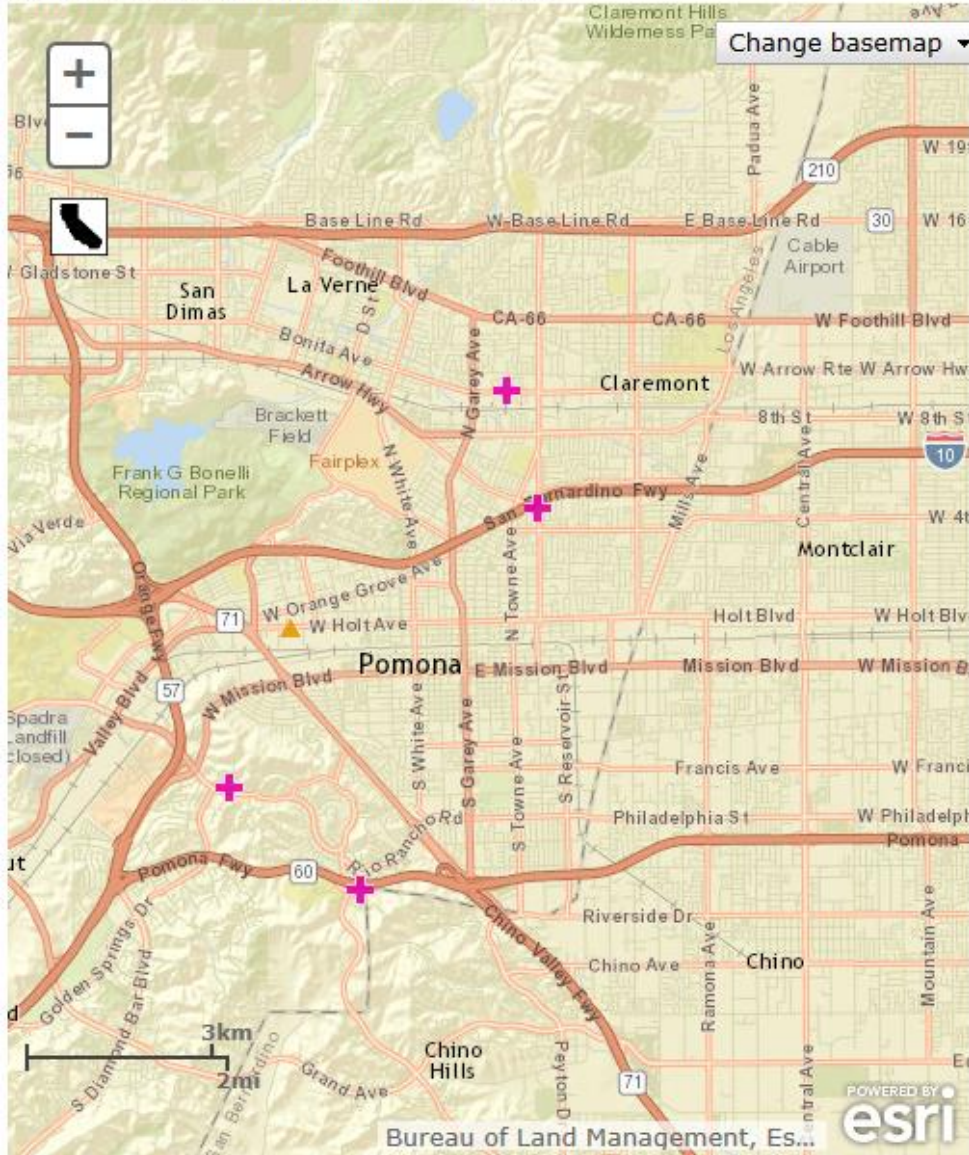
## Sanitary Sewer Overflow (SSO) Incident Map

### SANITARY SEWER OVERFLOWS: 05/04/2016 - 09/04/2017

Spill type: + [Category 1](#) ● [Category 2](#) ▲ [Category 3](#) [More Info](#)

Click on a map icon for incident information.

Note: Map does not include spills from sewage treatment plants.



- Show all incidents
- Show only incidents with valid GPS coordinates

**Filter by volume (gallons):**  
0 - 1,000,000+ gal.

Minimum:

Maximum:

[Set Volume](#)

**Filter by date:**  
05/04/2016 - 09/04/2017

Start:

End:

[Set Dates](#)

**Filter by Agency:**  
Pomona City

[Set Agency](#)

[Show All](#)

(Example: "123 Main Street, Sacramento, CA")

[Go to street address:](#)

Go to county:

[Show county layer](#)

Go to Regional Board:

[Show RB layer](#)

### QA Tools

To find a Latitude/Longitude for a point or address, click [here](#).

# AGENDA

June 24, 2015

10:00 am – 12:00 pm

JAO Conference Room A (1<sup>st</sup> floor, Public Information)

**SUBJECT: TAKEOVER OF POMONA PUMPING PLANT FORCE MAINS**

**ATTENDEES:**

POMONA: DARRON POULSEN, DAMIEN MARTINEZ, TIM HAMPTON

LACSD: JON GANZ, STAN PEGADIOTES, MIKE SULLIVAN, AJAY MALIK, NIKOS

MELITAS, ED STEWART

1. Introductions
  
2. Force Main at Pumping Plant No. 1
  - a. Significant renovation anticipated
  - b. Different schedule, separate takeover agreement
  - c. Two new force mains will be required prior to takeover
  
3. Proposed Takeover of Force Main at Pumping Plant Nos. 2 & 3
  - a. As-built drawings for existing force mains
    - i. Districts' drafting standards
    - ii. Plan, profile and detail
    - iii. Force mains, vaults and manholes
  - b. Designed by Pomona and reviewed by Districts
  - c. Constructed by Pomona and inspected by Districts
    - i. Include hydrostatic testing & CCTV
    - ii. Repair existing force mains as necessary
    - iii. Inspection reimbursement
  
4. Discussion and Closing

**Appendix - Transferring Pomona Force Mains to LACSD**



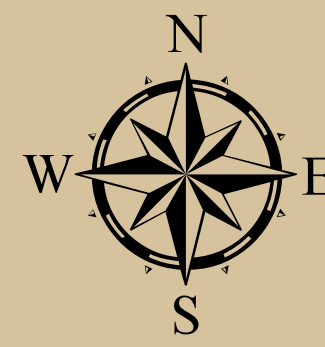
**CITY OF POMONA SEWER MAP**

CURRENT AS OF OCTOBER 2013



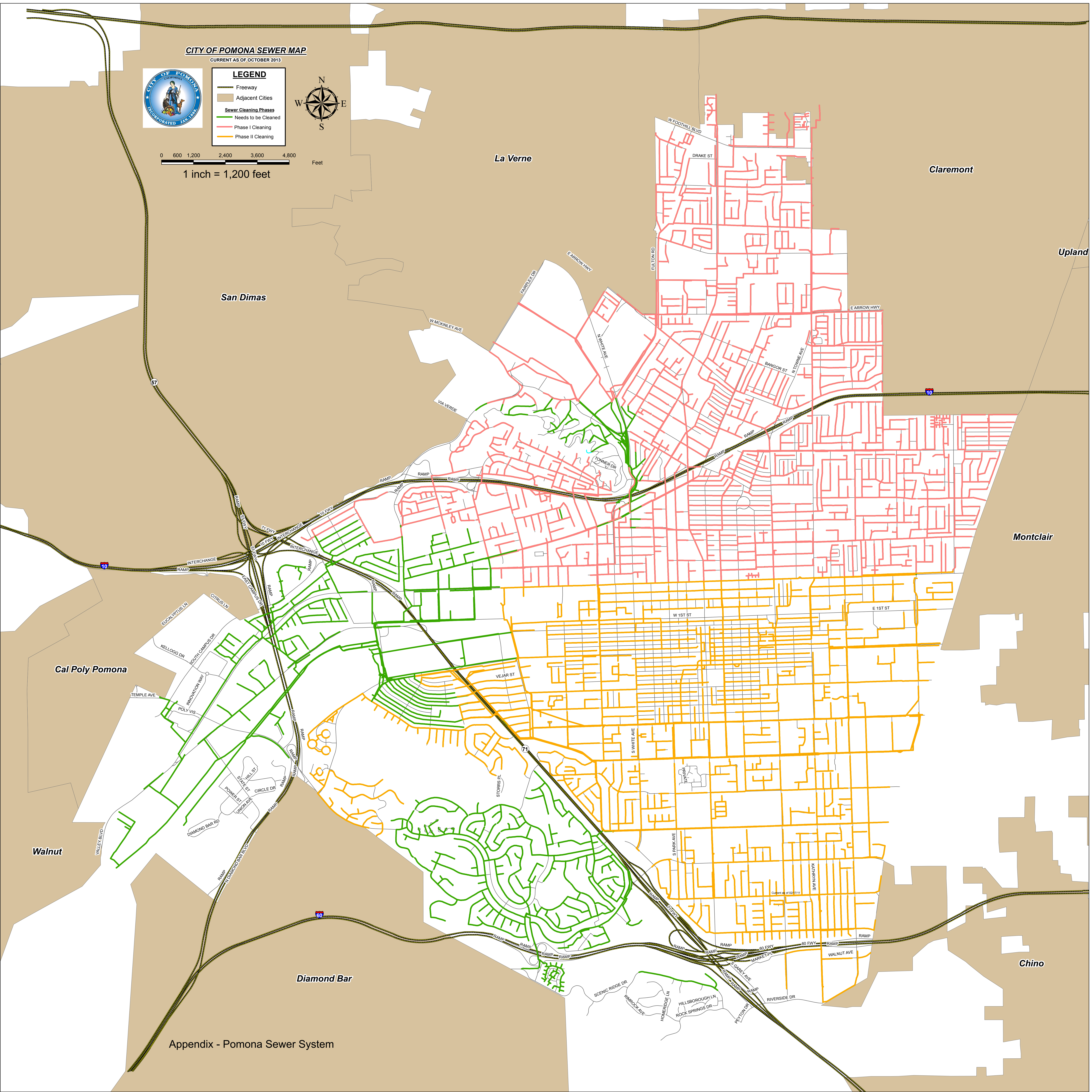
**LEGEND**

- Freeway
- Adjacent Cities
- Sewer Cleaning Phases**
  - Needs to be Cleaned
  - Phase I Cleaning
  - Phase II Cleaning



0 600 1,200 2,400 3,600 4,800 Feet

1 inch = 1,200 feet





Appendix - Current Spray Nozzels Used

# Material Safety Data Sheet

# RootX

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Company Name & Address:** General Chemical Company  
P.O. Box 7626  
1 705 Salem Industrial Drive, N.E.  
Salem, Oregon 97303

**Emergency Telephone:** 800-424-9300 (Chemtrec) or 800-844-4974

**Date Prepared:** January 1<sup>st</sup> 2007 **Common Name (used on label):** RootX

**Chemical Name:** 2,6-dichlorobenzonitrile **Chemical Family:** Benzonitrile

**Formula:** Proprietary Mixture **EPA Reg. No.:** 68464-1

## SECTION 2 - HAZARDOUS INGREDIENTS/COMPOSITION

| <b>Hazardous Component:</b>            | <b>%/Wt.:</b> | <b>CAS #:</b> | <b>TLV* (Units):</b>               |
|--|---------------|---------------|------------------------------------|
| 2,6-dichlorobenzonitrile (dichlobenil) | 0.55%         | 1194-65-6     | Not Established                    |
| Silica, Crystalline Quartz             | >11.00%       | 1 4464-46-1   | 10 mg/m <sup>3</sup> (respirable)  |
| Sulfamic Acid                          | >4 0.00%      | 5329-14-6     | 1 5 mg/m <sup>3</sup> (respirable) |

\*TLV: Threshold Limit Value recommended by the American conference of Governmental Industrial Hygienists.

## SECTION 3 - PHYSICAL DATA

**Boiling Point:** 270°C (dichlobenil) **Density:** 2.18 kg/L<sup>3</sup>

**Vapor Pressure:** 0.088 Pa @ 20°C (dichlobenil) **Solubility:** Disperses with H<sub>2</sub>O

**Percent Volatile by Volume:** Not determined **Vapor Density:** Not determined

**Evaporation Rate:** Not determined **Physical State:** Solid (Wettable Powder)

**Appearance & Odor:** White to light brown with a slight aromatic odor.

## SECTION 4 - FIRE AND EXPLOSION DATA

**Flash Point:** 216°C (420°F) **Flammable Limits in Air (%/Volume):** Lower - Not Determined  
Upper - Not Determined

**Auto Ignition Temperature:** 527°C (980°F)

**Extinguishing Media:** Water spray, foam or dry chemical

**Unusual Fire & Explosion Hazards:** Decomposition may form explosive dust-air mixtures; carbon dioxide and water vapor.

**Special Fire Fighting Procedures:** As with any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water, dry chemical or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

## SECTION 5 - HEALTH INFORMATION

**Primary Routes of Exposure:** Inhalation, eye and skin contact.

**Signs and Symptoms of Exposure -**

**Acute Overexposure:** Other than the possibility of slight to moderate eye irritation, no other acute health hazards have been identified. Chronic inhalation may cause lung irritation to individuals with respiratory problems. Individuals with respiratory problems should avoid inhalation exposure.

**Chronic Overexposure:** In studies with laboratory animals, virtually pure grade (96%+) dichlobenil had a developmental toxicity No Observable Effect Level ("NOEL") of 20 mg/kg/day. For reproductive toxicity, (96%+) dichlobenil had a reproductive toxicity NOEL of 17.5 mg/kg/day. Analysis of chronic feeding studies in rats and mice with dichlobenil resulted in the conclusion that dichlobenil's potential to induce carcinogenicity in experimental animals is low and that the likelihood of carcinogenic effects in humans is nonexistent or extremely low. Long-term feeding studies, conducted at exaggerated dose levels, resulted in increased kidney and liver weights. An overall absence of genotoxicity has been demonstrated in mutagenicity testing on dichlobenil.

Repeated overexposure to crystalline silica (a naturally occurring component of sand and inorganic soils) for extended periods has caused acute silicosis. IARC has classified crystalline silica, inhaled in the form of quartz or cristobalite from occupational sources as a carcinogen to humans (group 1). NTP has classified crystalline silica (quartz, cristobalite and tridymite) as "reasonably anticipated to be carcinogenic".

**Carcinogenicity (pure dichlobenil):** NTP - No IARC - N0 OSHA - No EPA - Possible

**Carcinogenicity (crystalline silica):** NTP - Anticipated IARC - Yes

**Medical Conditions Aggravated by Exposure:** None currently known for RootX.

**Medical Conditions Aggravated by Overexposure:** Slight to moderate eye irritation.

**Toxicology Information for RootX:** Acute Oral LD<sub>50</sub> = >5,000 mg/kg; Acute Dermal LD<sub>50</sub> = >2,000 mg/kg; Acute Inhalation LC<sub>50</sub> = > 2 mg/liter; Acute Eye Irritation = slightly to moderately irritating; Acute Dermal Irritation = None to slight irritation; Dermal Sensitization = Not a dermal sensitizer.

Acute studies with RootX place the product in EPA categories III & IV - slight acute toxicity to virtually non-toxic.

**First Aid Procedures: If Swallowed** - Call a poison control center or doctor immediately for advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **If On Skin** - If on skin or clothing, take off contaminated clothing. Rinse immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **If Inhaled** - Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment. **If In Eyes** - Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

**Worker Exposure:** The EPA requirements for concern exist when the MOE (Margin of Exposure) are less than 100 for dermal exposure and 300 for inhalation exposure. An analysis of the exposure associated with the use of RootX demonstrate the dermal and inhalation MOE to be between 38,050 and 253,664. Thus, the use of RootX according to labeled use directions far exceed the MOE concerns established by EPA for dichlobenil.

#### SECTION 6 - REACTIVITY DATA

**Stability:** Stable at ambient temperatures and pressures. **Conditions to Avoid:** Strong alkalis.

**Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Thermal decomposition or unscheduled contact between both components of RootX may cause build-up of Carbon Dioxide.

#### SECTION 7 - SPILL OR LEAK PROCEDURES

**Storage:** Do not contaminate water, food or food by storage or disposal. Store in a cool, dry place. Do not store with propagative structures such as seed, bulbs, tubers, nursery stock, etc., or with food or feed products or high alkali materials.

**Spills:** Vacuum up to avoid creating dust. Transfer into secure disposable containers. Use personal protective equipment as outlined in Section 8. Reportable quantity for spills of RootX is 9,000 pounds.

**Disposal:** Wastes resulting from the use of this product may be disposed of on site according to labeled use directions, or at a Federal, state and local waste approved facility. For normal use and container/pesticide disposal, please refer to the product labeling for proper disposal.

**Environmental Information:** For terrestrial uses, do not use near a well or where drinking water is stored. Do not apply directly to water (except as specified on the label) or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment, wash water or rinsate.

Tests on Bluegill sunfish, Rainbow trout, and Large-mouth bass demonstrate the LC<sub>50</sub> values to be between 15 and 30 ppm. Adult Quail LC<sub>50</sub> value = 1,000 ppm. These data indicate that dichlobenil is not toxic to aquatic and avian species.

#### SECTION 8 - PERSONAL PROTECTION INFORMATION

**Respiratory Protection:** Dust mask. **Gloves:** Rubber (impervious) gloves.

**Eye Protection:** Chemical resistant splash goggles, safety glasses or full-face shield (for spill or leak cleanups).

**Ventilation:** General of local exhaust to maintain exposure below established TLV limits.

**Other Protective Clothing:** Long-sleeved shirt, long-pants, shoes & socks and for spill clean-ups, a chemical resistant apron is recommended.

#### SECTION 9 - OTHER INFORMATION

**Hygiene:** As with any pesticidal product, always wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Always clean and maintain personal protective equipment.

**National Fire Protective Association Ratings (Rating level: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Minimum).**

**NFPA Health: 1 NFPA Flammability: 0 Reactivity Hazards: 1**

**U.S. Environmental Protection Agency:**

**SARA 313 - Yes**

**Other:**

**Proposition 65 - Yes**

**SANITARY SEWER SPILL**  
**DO NOT ENTER**

**CITY OF POMONA**

**(909) 772-4105**



- Home
- FOG Program Info
- Laws, Regs and Codes
- Technology
- Technical Guides
- Publications
- Collection Systems
- Green Business
- Public Ed and Outreach
- Meeting Materials
- Workshops
- Grease Haulers
- Biodiesel



## Facilities Accepting Grease

| Agency Name   | Location                        | Grease Type   | Areas Accepted  | Number   |
|---|---------------------------------|---------------|---|--|
| Al-Max Sanitation                                       | Santee                          | brown         | San Diego County  | 800-404-6480   |
| Baker Commodities, Inc.                                 | Los Angeles                     | yellow, brown | Southern California   | 800-427-0696   |
| Central Contra Costa Sanitary District Treatment Plant  | Martinez                        | brown         | within CCCSD service area only under a CCCSD Waste Hauler Permit  |  |
| City of Millbrae  | Millbrae                        | yellow, brown | Accepting brown grease from licensed haulers contracted to dispose at the City receiving station. Residential used cooking oil by appointment only.     | (650) 259-2388   |
| City of Palo Alto, Recycle Center (Residential Sources) | Palo Alto                       | yellow        | City of Palo Alto   | (650) 496-5910   |
| City of Palo Alto, RWQCP                                | Palo Alto                       | brown         | RWQCP Service Area  | (650) 617-3165   |
| Darling International                                   | Los Angeles                     |               |   | 1-800-4-GREASE   |
| East Bay Municipal Utility District                     | Oakland                         | yellow, brown | All areas   | (510) 287-1632   |
| Imperial Western Products                               | Coachella Valley                |               |   | (760) 398-0815   |
| Monterey Regional Water Pollution Control Agency        | Marina, CA                      | brown         | Within Monterey County only   | (831) 883-1118   |
| Napa Sanitation District                                | Napa                            | yellow, brown | All<br>1515 Soscol Ferry Road, Napa   | (707) 258-6000   |
| North San Mateo County Sanitation District              | Daly City                       | yellow        | The NSMCSO service area (most of Daly City, Broadmoor Village, Westborough Water District and portions of Colma)  | (650) 991-8208   |
| One More Time   | Los Angeles                     | yellow        | California, entire state; Yuma, Arizona area  | 800-624-5504   |
| Orange County Sanitation District, Plant No. 1          | Fountain Valley                 | yellow, brown | within OCSO's service area, i.e., Orange County, parts of San Bernardino/Riverside  | (714) 593-7428   |
| <a href="#">Promethean Biofuels</a>                     | Riverside (South) County        | yellow        | South Riverside County  | (951) 541-9141   |
| Sacramento Regional County Sanitation District          | Elk Grove                       | yellow, brown | Sacramento County, Yolo County east of the Yolo Bypass  | (916) 875-6470   |
| Sacramento Regional County Sanitation District          | North Highlands                 | yellow, brown | Sacramento County, Yolo County east of the Yolo Bypass  | (916) 875-6470   |
| Sacramento Rendering Company                            | Sacramento                      | yellow        | Northern California   | (916) 363-4821   |
| San Francisco Public Utilities Commission               | San Francisco                   | brown         | All Areas<br><br>Oceanside Water Pollution Control Plant<br>3500 Great Highway<br>San Francisco, CA 94132   | 415-242-2200 (x2232)<br>Alexandre Miot   |
| San Francisco Public Utilities Commission SFGreasecycle | San Francisco                   | yellow        | San Francisco   | Yellow Grease and residential cooking oil<br>See website for locations:<br><a href="http://www.sfgreasecycle.com/">http://www.sfgreasecycle.com/</a><br>(415) 695-7366 |
| South Bayside Systems Authority                         | Redwood City                    | yellow, brown | SBSA accepts grease from San Francisco, San Mateo, and Santa Clara counties. Haulers must complete a PO form and show proof of insurance for liability. | (650) 591-7121   |
| Southwest Processors                                    | Los Angeles                     |               |   |  |
| City of Watsonville Wastewater Treatment Facility       | 401 Panabaker Lane, Watsonville | Brown         | All Areas   | (831) 768-3170   |
| West Coast Rendering                                    | Los Angeles                     |               |   |  |

<http://www.calfog.org/index.html>

|            |                                     |                |
|------------|-------------------------------------|----------------|
| Lake Tahoe | valley septic sewer & drain service | (530) 344-3314 |
| Lake Tahoe | Waters Vacuum Truck Service         | (888) 909-7867 |

### Lassen

### Los Angeles

|             |   |                      |
|-------------|---|----------------------|
| Los Angeles | Ameriguard Maintenance Services   | (800) 347-7876 xt 14 |
| Los Angeles | Baker Commodities   | (800) 427 0696       |
| Los Angeles | <a href="#">BioClear Solutions</a> - Bacteria treatment for drain lines | (888) 433-5886       |
| Los Angeles | <a href="#">Chans Grease Service</a>                                    | (951) 830-2172       |
| Los Angeles | <a href="#">Coastal Byproducts</a>                                      | (805) 845-8086       |
| Los Angeles | <a href="#">Grand Natural Inc.</a>                                      | (855)-519-5550       |
| Los Angeles | <a href="#">JR Grease Traps and Interceptor Service</a>                 | (323) 997-9602       |
| Los Angeles | <a href="#">New Leaf Biofuel</a>  | (619) 236-8500       |
| Los Angeles | One More Time   | (800) 624-5504       |
| Los Angeles | SMC Grease Specialist   | (951) 788-6042       |
| Los Angeles | <a href="#">Superior Service Recycling</a>                              | (888) 888-4121       |
| Los Angeles | Ventura Rendering   | (805) 485-2217       |

### Madera

|        |                                 |                      |
|--------|---------------------------------|----------------------|
| Madera | All Valley Environmental, Inc.  | (559) 498-8378       |
| Madera | Ameriguard Maintenance Services | (800) 347-7876 xt 14 |
| Madera | ModestoTallow/Florin Tallow Co. | (209) 522-7224       |
| Madera | ModestoTallow/Florin Tallow Co. | (800) 564-7204       |
| Madera | One More Time                   | (800) 624-5504       |

### Marin

|       |                                 |                      |
|-------|---------------------------------|----------------------|
| Marin | Ameriguard Maintenance Services | (800) 347-7876 xt 14 |
|-------|---------------------------------|----------------------|

## Appendix - CalFOG Grease Haulers in LA County



**City of Pomona**  
 Public Works Division  
 505 South Garey Avenue, Pomona CA, 91766  
 Phone: (909) 620-3628

**NPDES Inspection Form**

|                                     |
|-------------------------------------|
| Restaurant: Hot Cazuelas            |
| Address: 1395 W Holt Ave            |
| Owner/Contact: José Humberto Flores |

|                            |
|----------------------------|
| Inspection Date: 8/24/2017 |
| Time: 10:58:55 AM          |
| Phone: (909) 766-8140      |

Key for BMP Effectiveness: Y - BMP Implemented; N - BMP Not Implemented; NA - Not Applicable

| GENERAL  | Y | N | NA | FOG, GREASE HANDLING & SPILL DISPOSAL  | Y | N | NA |
|--|---|---|----|--|---|---|----|
| Storm drain inlets are labeled and cleaned out regularly.  |   |   | X  | FOG program regulations implementation.  |   |   | X  |
| Recycling program is implemented.  | X |   |    | Proper Grease Trap installed and maintained. Type:   | X |   |    |
| Grounds, Parking and Landscaping areas are kept clean and regularly swept (no evidence of food particles, liter, staining, oils and grease).<br>Frequency: | X |   |    | Grease Traps Maintenance records kept on site. Last Cleaned:   |   |   | X  |
| No indication of discharge to storm drain visible.   | X |   |    | FOG collection by licensed hauler & manifested. Last Pickup:   |   |   | X  |
| DUMPSTER AREA  |   |   |    | Grease disposal area is clean and free of spills.  | X |   |    |
| Outside area free of trash.  | X |   |    | Grease disposal containers are kept closed with lids.  | X |   |    |
| Garbage container area free of trash (ground, walls, etc.)   | X |   |    | Grease disposal containers and surrounding areas are free of overflow or liquid waste (ground wall, etc.).     | X |   |    |
| Outside trash bin free of leakage.   | X |   |    | Spill Prevention mechanism and secondary containment in place around grease disposal area.                     | X |   |    |
| Dumpster free of any liquid waste.   | X |   |    | Fan - oil drip pan installed and maintained.   |   |   | X  |
| Trash bin lids closed.   | X |   |    | Roof clean from fans blowing oil and food.   |   |   | X  |
| EQUIPMENT AND OUTDOOR CLEANING   |   |   |    | EDUCATION AND TRAINING   |   |   |    |
| Area around restaurant are dry swept (sidewalks outdoor dining and other areas).   | X |   |    | FOG program knowledge.   | X |   |    |
| No evidence of floor mats being washed outside.  |   |   | X  | Prohibiting discharge of wastewater outside.   | X |   |    |
| No evidence of sidewalks/parking lots being hosed down.  | X |   |    | Spill prevention and control.  | X |   |    |
| Effective clean-out plugs on all exterior drain lines.   | X |   |    | Keeping dumpster areas clean.  | X |   |    |
| Loading/unloading areas are free of leftover trash food, waste, debris, etc.   | X |   |    | Good Housekeeping BMPs.  | X |   |    |
| Liquid waste from equipment cleaning is drained into an approved sewage system.  | X |   |    | Educational Materials posted in a visible area onsite for employees to read and use.                           | X |   |    |
| Ashtrays for outdoor smoking areas (no evidence of cigarette butts).   |   |   | X  | Proper disposal of the cigarette butts if smoking outside.   |   |   | X  |
| Outdoor drains have no evidence of stains or non stormwater discharge entering outdoor drains.   | X |   |    | Restaurant owner/manager conducts regular training of current and new employees regarding all BMPs. Frequency: | X |   |    |
| Outdoor storage area is free of litter.  | X |   |    |  |   |   |    |

**Additional Violations and/or Comments:** No violations observed

Continue to maintain cleanliness of grease containers.

Follow-Up Inspection Date:

Facility Rep. and Signature: Jose

Inspector Name and Signature: Alex Escobar





2017 New Sewer CCTV Truck Interior



New Sewer CCTV Truck Rear View



New 2017 Sewer CCTV Truck Profile

command center

Raul G.

tanks

pumps

customers

valves

0 manhole conditions this year

147 ww main maintenance this week

map trend

gis model tasks

controls view

location FB785-1 attachment

object 72914

assembly FB785-1

workdate 9/5/2017 10:24:26 AM

worktype General Main Maint.

workby WWCrew1

attachment1

attachment2

attachment3

comments

uComm create task

operations

management

engineering

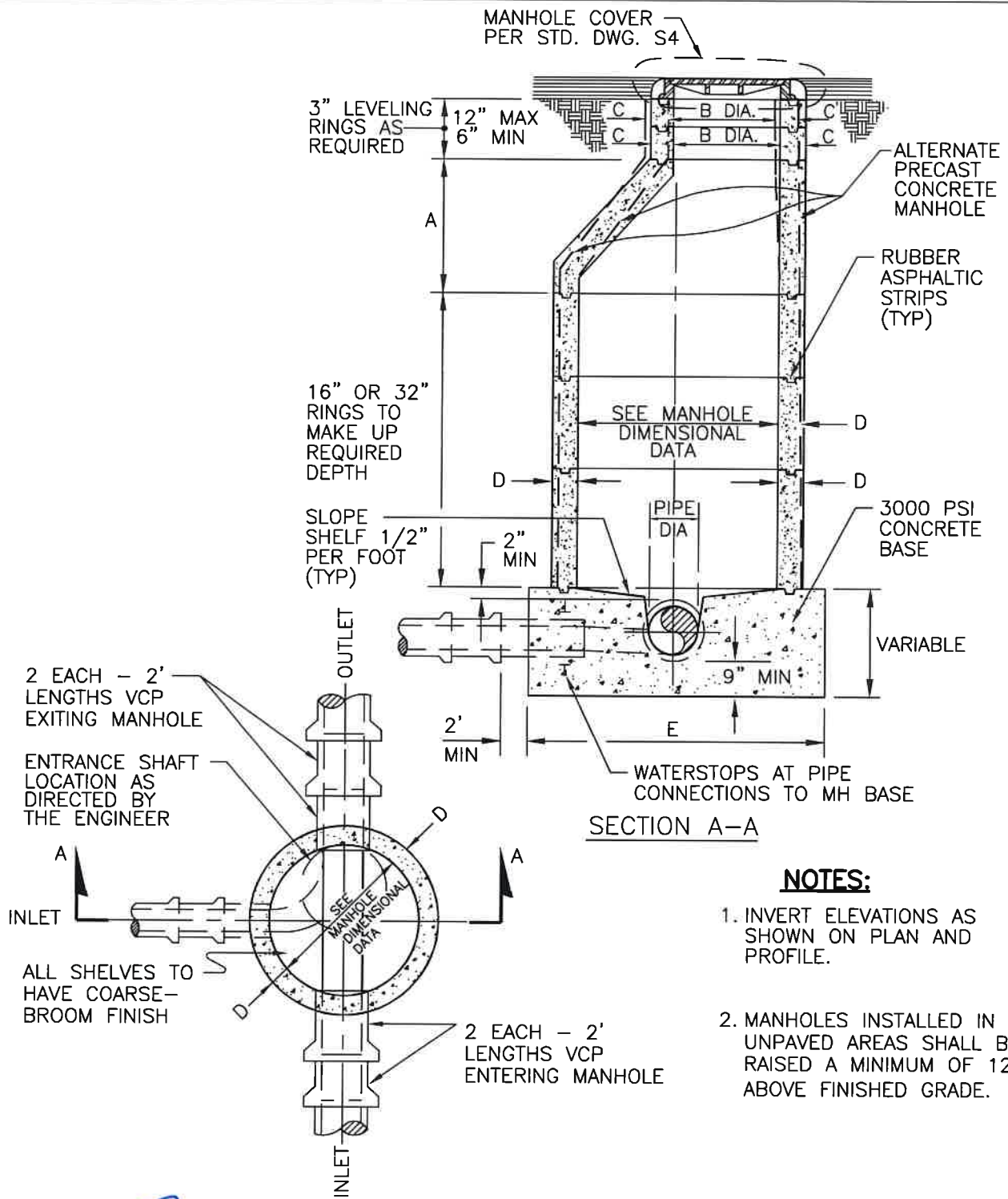
customer service

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Appendix - Sedaru Print Out Showing One of the WW Mains Cleaned Last Week


| Site Address        | City   | Program/Element Code | Program/Element       |
|---------------------|--------|----------------------|-----------------------|
| 1202 ROMA PL        | POMONA | 4221                 | 4221 - PC-OWTS NEW OR |
| 1249 LOS ROBLES PL  | POMONA | 4221                 | 4221 - PC-OWTS NEW OR |
| 3727 EQUATION RD    | POMONA | 4221                 | 4221 - PC-OWTS NEW OR |
| 9326 NOTRE DAME AVE | POMONA | 4221                 | 4221 - PC-OWTS NEW OR |
| 9341 NOTRE DAME AVE | POMONA | 4221                 | 4221 - PC-OWTS NEW OR |
| 222 E. Foothill     | POMONA | Renovation/1994      | Hard copy application |

| Septic Status |
|---------------|
| 1 - ACTIVE    |
| 1 - ACTIVE    |
| 1 - ACTIVE    |
| 1 - ACTIVE    |
| 1 - ACTIVE    |



**NOTES:**

1. INVERT ELEVATIONS AS SHOWN ON PLAN AND PROFILE.
2. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED A MINIMUM OF 12" ABOVE FINISHED GRADE.


|  |  |                 |  |   |  |
|--|--|-----------------|--|---|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |  | 9/29/17<br>DATE |  | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT |  |
|  |  |                 |  |   |  |
|  |  |                 |  | DRAWN BY: DC                              |  |
|  |  |                 |  | CHECKED BY: NB, IL                        |  |
|  |  |                 |  | APPROVED BY: DP                           |  |
| REVISIONS  |  | DATE            |  | INITIAL                                   |  |
|  |  |                 |  | STANDARD                                  |  |
|  |  |                 |  | S1<br>1 OF 2                              |  |

| MANHOLE DIMENSIONAL DATA |            |     |         |    |        |        |               |
|--------------------------|------------|-----|---------|----|--------|--------|---------------|
| MANHOLE DIAMETER         | TYPE       | A   | B<br>** | C  | D      | E      | PIPE DIAMETER |
| 48"                      | REINFORCED | 36" | 30"     | 5" | 4 1/8" | 6'-0"+ | UP TO 21"     |
| 48"                      | REINFORCED | 36" | 30"     | 6" | 6"     | 6'-0"+ | * 24"         |

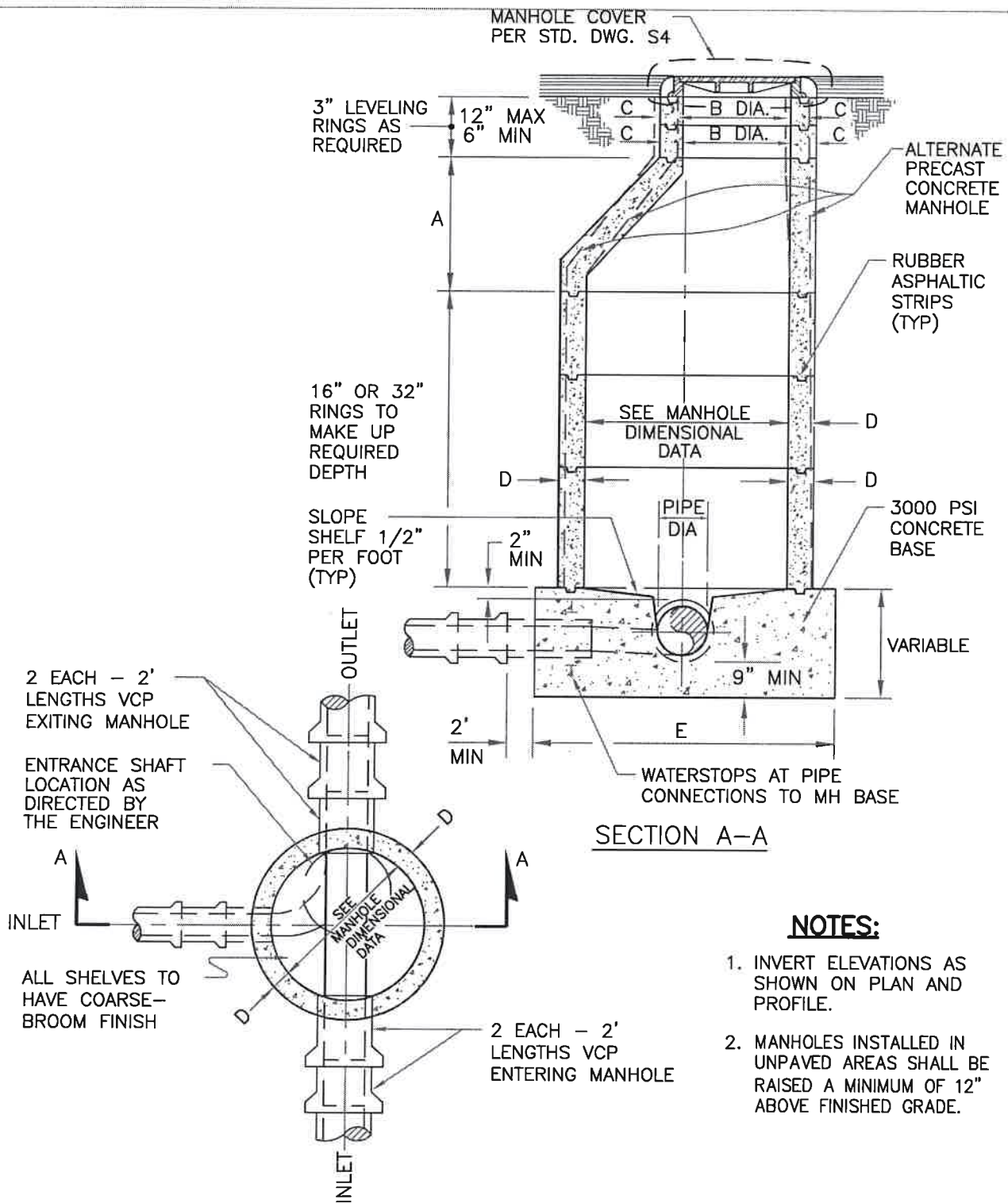
- \* IF CONNECTIONS AND TEES ARE REQUIRED, USE NEXT HIGHER DIAMETER MANHOLE.
- \*\* WHERE 30" OPENING IS NOT POSSIBLE, USE CONCENTRIC COVER, ALHAMBRA FOUNDRY TYPE A-1325 OR EQUIVALENT.

**NOTES**

1. PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 AND BE DESIGNED FOR AASHTO H20 LOADING.
2. MATERIALS, EMBEDMENT, PLACEMENT, AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL SHALL CONFORM TO THE CITY'S STANDARD DETAILS FOR PIPE BEDDING AND TRENCH BACKFILL.

|  |  |                 |  |   |  |
|--|--|-----------------|--|---|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |  | 9/28/17<br>DATE |  | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT         |  |
|  |  |                 |  | MANHOLE 4 FT BY 3 FT<br>MAIN 15" DIAMETER OR LESS |  |
|  |  |                 |  | DRAWN BY: DC<br>CHECKED BY: NB, IL                |  |
| REVISIONS  |  | DATE INITIAL    |  | APPROVED BY: DP                                   |  |
| △  |  |                 |  | STANDARD  |  |
|  |  |                 |  | S1<br>2 OF 2                                      |  |





SECTION A-A

**NOTES:**

1. INVERT ELEVATIONS AS SHOWN ON PLAN AND PROFILE.
2. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED A MINIMUM OF 12" ABOVE FINISHED GRADE.

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263  
 2/28/17  
 DATE

| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
|           |      |         |
|           |      |         |

CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

**MANHOLE 5 FT BY 3 FT  
 18" DIA. AND LARGER**

|                    |                 |                     |
|--------------------|-----------------|---------------------|
| DRAWN BY: DC       | <b>STANDARD</b> | <b>S2</b><br>1 OF 2 |
| CHECKED BY: NB, IL |                 |                     |
| APPROVED BY: DP    |                 |                     |


| MANHOLE DIMENSIONAL DATA |            |     |         |    |    |        |               |
|--------------------------|------------|-----|---------|----|----|--------|---------------|
| MANHOLE DIAMETER         | TYPE       | A   | B<br>** | C  | D  | E      | PIPE DIAMETER |
| 60"                      | REINFORCED | 36" | 30"     | 6" | 6" | 7'-0"+ | 27" TO 39"    |
| 60"                      | REINFORCED | 36" | 30"     | 6" | 6" | 7'-0"+ | * 42"         |

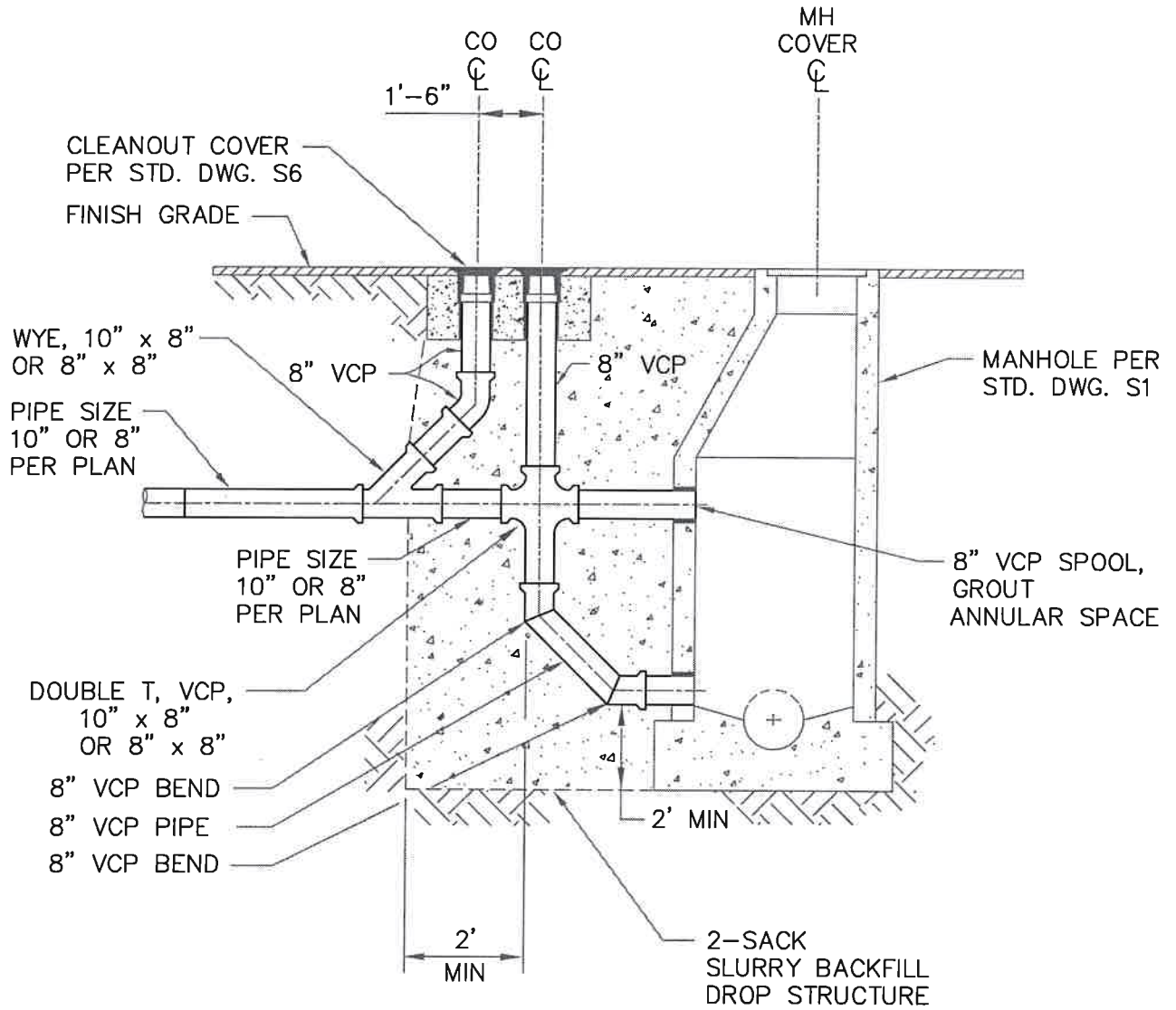
\* IF CONNECTIONS AND TEES ARE REQUIRED, USE NEXT HIGHER DIAMETER MANHOLE.

\*\* WHERE 30" OPENING IS NOT POSSIBLE, USE CONCENTRIC COVER, ALHAMBRA FOUNDRY TYPE A-1325 OR EQUIVALENT.

NOTES


1. PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 AND BE DESIGNED FOR AASHTO H20 LOADING.
2. MATERIALS, EMBEDMENT, PLACEMENT, AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL SHALL CONFORM TO THE CITY'S STANDARD DETAILS FOR PIPE BEDDING AND TRENCH BACKFILL.

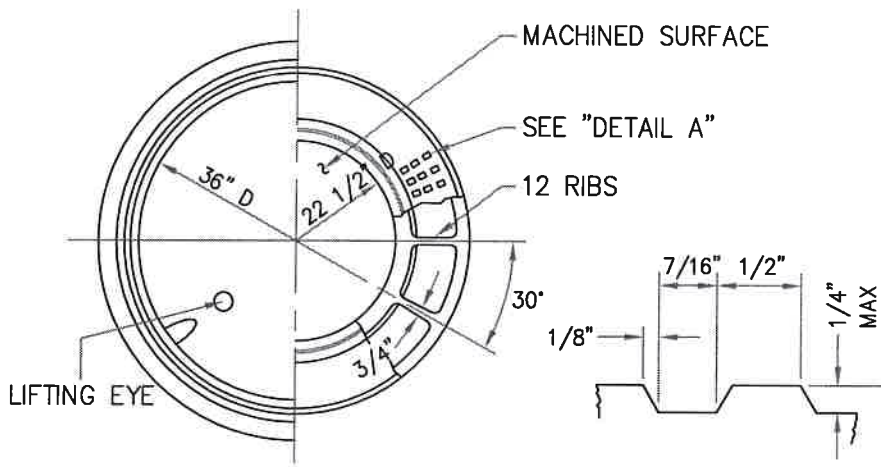
|  |           |                 |         |  |  |
|--|-----------|-----------------|---------|--|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |           | 8/28/17<br>DATE |         | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT    |  |
|  |           |                 |         | MANHOLE 5 FT BY 3 FT<br>STANDARD 48" MANHOLE |  |
|  |           |                 |         | DRAWN BY: DC<br>CHECKED BY: NB, IL           |  |
|  |           |                 |         | APPROVED BY: DP                              |  |
| △  | REVISIONS | DATE            | INITIAL | STANDARD                                     |  |
|  |           |                 |         | S2<br>2 OF 2                                 |  |



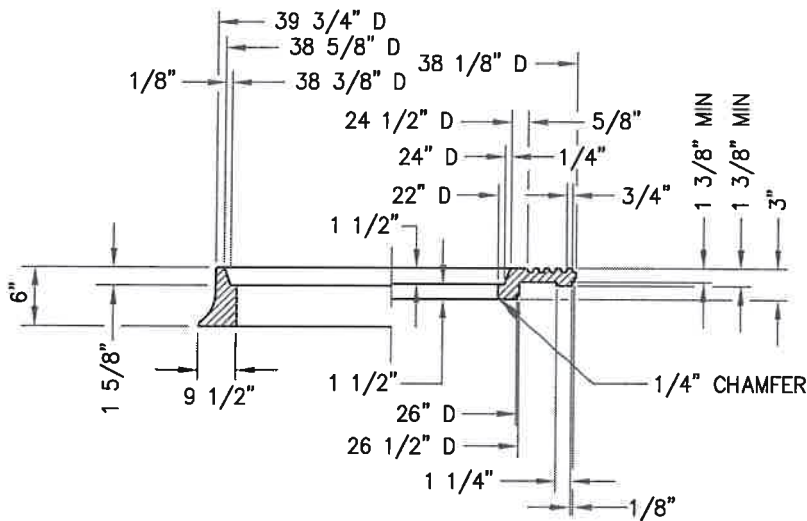
**NOTES:**

1. MANHOLES INSTALLED IN UNPAVED AREAS SHALL BE RAISED MINIMUM 12" ABOVE FINISH GRADE.
2. CLEANOUTS MAY BE INSTALLED AT FINISH GRADE.

|  |                 |   |             |
|--|-----------------|---|-------------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 | 3/28/17<br>DATE | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT             |             |
|  |                 | DROP MANHOLE  |             |
|  |                 | DRAWN BY: DC<br>CHECKED BY: NB, IL<br>APPROVED BY: DP | STANDARD S3 |
| REVISIONS  | DATE            | INITIAL   |             |




HALF PLAN FRAME AND COVER



HALF SECTION FRAME AND COVER

**NOTES:**

1. FRAME AND COVER SHALL BE CAST IRON. CAST IRON SHALL CONFORM TO ASTM 48, CLASS 35B.
2. WEIGHTS: FRAME 314 - 363 LBS  
OUTER COVER 285 - 330 LBS  
INNER COVER 147 - 171 LBS
3. MACHINE ALL MATCHING SURFACES AND SEATS OF FRAME AND COVER
4. IMPORTED FRAME AND COVERS SHALL HAVE THE COUNTRY OF ORIGIN MARKED IN COMPLIANCE WITH FEDERAL REGULATIONS.

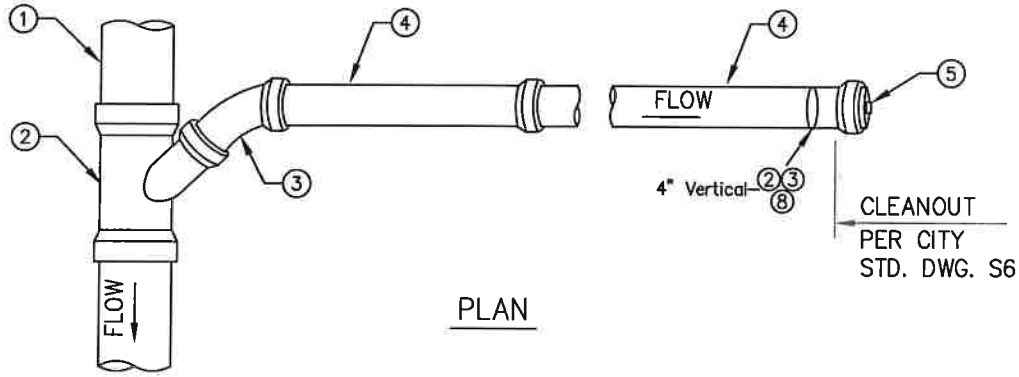
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|--|------|-----------------|--|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |      | 8/28/17<br>DATE |  |
| REVISIONS  | DATE | INITIAL         |  |

CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

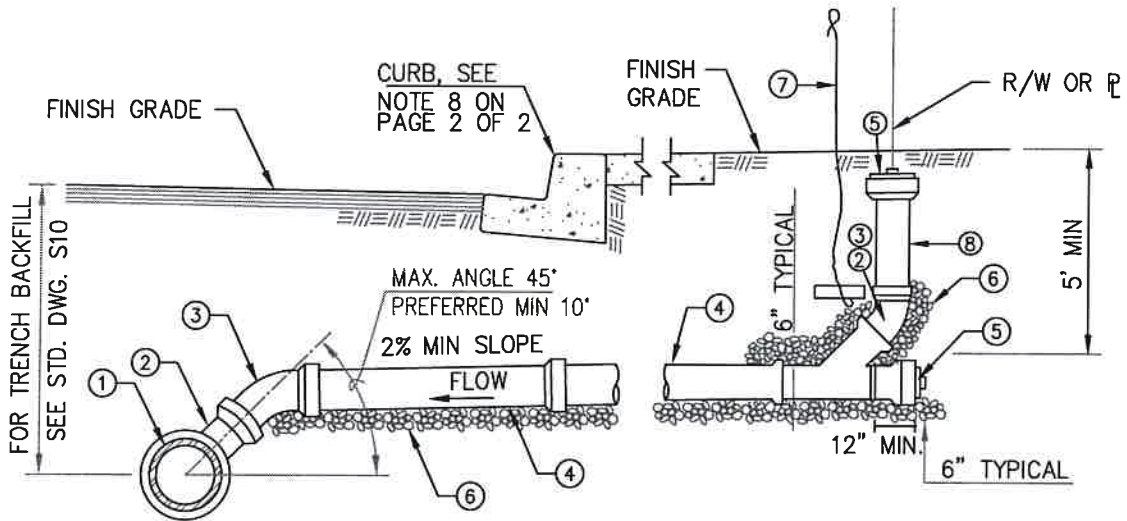
MANHOLE COVER

DRAWN BY: DC  
CHECKED BY: NB, IL  
APPROVED BY: DP

STANDARD S4




PLAN



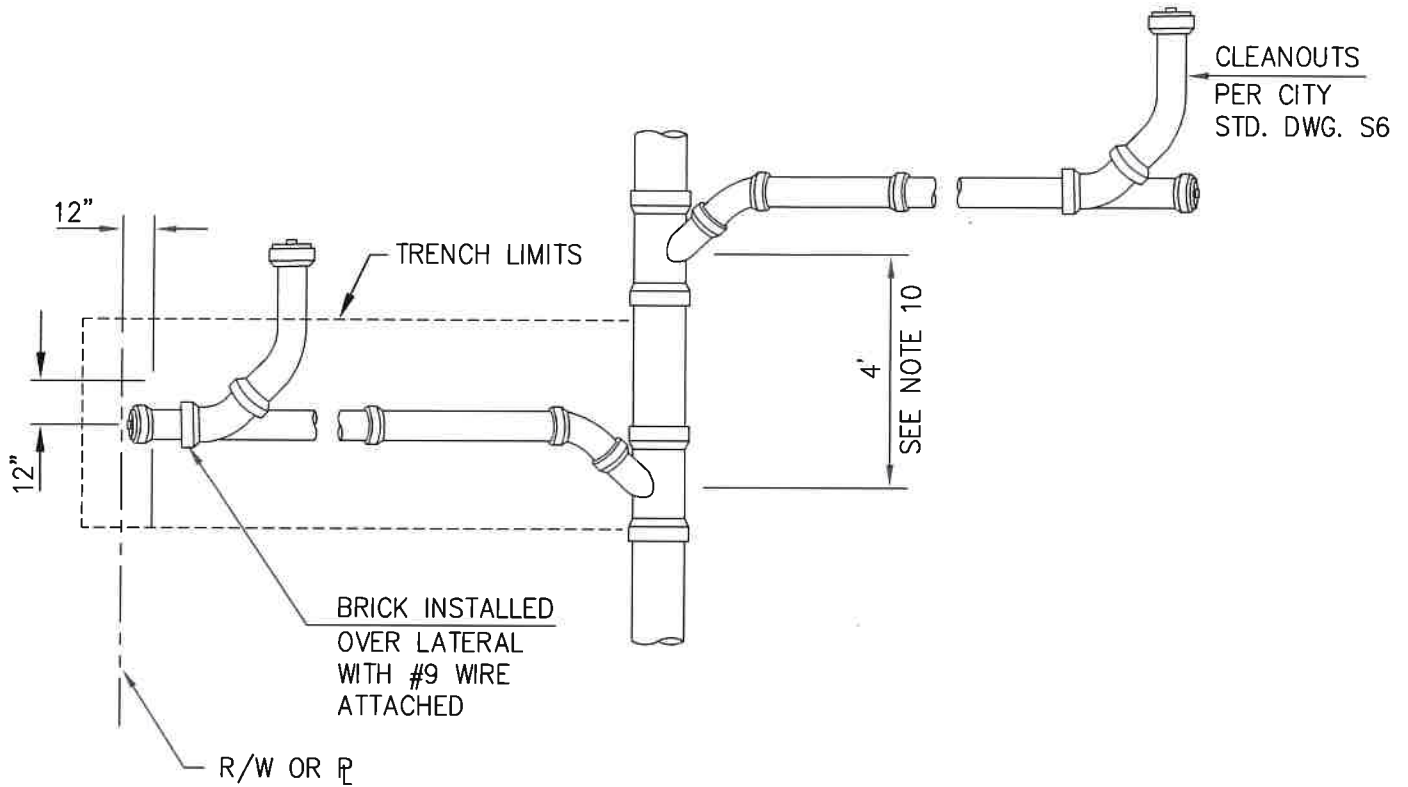
ELEVATION

FOR SEWER LATERAL NOTES, SEE PAGE 2 OF 2

| ITEM NO. | SIZE AND DESCRIPTION                            | ITEM NO. | SIZE AND DESCRIPTION  |
|----------|---|----------|---|
| ①        | SEWER MAIN                                      | ⑤        | PLUG OR CAP   |
| ②        | 45° WYE   | ⑥        | 3/4" MAXIMUM CRUSHED ROCK                                     |
| ③        | 45° ELBOW                                       | ⑦        | 9 WIRE ATTACHED TO A BRICK;<br>WIRE TO BE LAID ON TOP OF PIPE |
| ④        | PIPE LATERAL, SEE NOTES 3 & 5<br>ON PAGE 2 OF 2 | ⑧        | CLEANOUT PER STD. DWG. S6                                     |

|  |           |                 |         |
|--|-----------|-----------------|---------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |           | 8/28/17<br>DATE |         |
| △  | REVISIONS | DATE            | INITIAL |

|   |          |
|---|----------|
| CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT             |          |
| HOUSE LATERAL CONNECTION                              |          |
| DRAWN BY: DC<br>CHECKED BY: NP, IL<br>APPROVED BY: DP | STANDARD |
| S5<br>1 OF 2  |          |



SANITARY SEWER LATERAL DETAIL  
SEE NOTE 10 BELOW

**NOTES:**

1. REFER TO PROJECT SPECIFICATIONS WHERE APPLICABLE.
2. IN NO CASE SHALL LATERAL CONNECT DIRECTLY TO TOP OF SEWER MAIN.
3. LATERAL SHALL BE INSTALLED TO PROPERTY LINE UNLESS SPECIFIED ON PLANS.
4. MINIMUM 5' COVER ABOVE LATERAL AT PROPERTY LINE.
5. LATERAL TO HAVE A MINIMUM SLOPE OF 2%; APPROVAL REQUIRED FOR SLOPE LESS THAN 2%. INSTALL WITH "SEWER" IDENTIFICATION TAPE.
6. VERTICAL PIPE SHALL BE BRACED WHILE BACKFILLING TRENCH.
7. IDENTIFY SANITARY SEWER LATERAL LOCATION ON CURB.
8. MATERIALS SHALL BE SELECTED FROM THE CITY'S APPROVED MATERIALS LIST.
9. FOR SANITARY SEWER LATERAL INSTALLATIONS, SEE PAGE 1 OF 2.
10. FOR SEWERS SPECIFIED AS VCP PIPE, A MINIMUM 3' SECTION OF PIPE IS REQUIRED BETWEEN FITTINGS.
11. SEWER CLEANOUT, SEE STD. DWG. S6

*René Guebrero*  
RENE GUEBRERO, CITY ENGINEER  
RCE NO. 66263

9/18/17  
DATE

CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

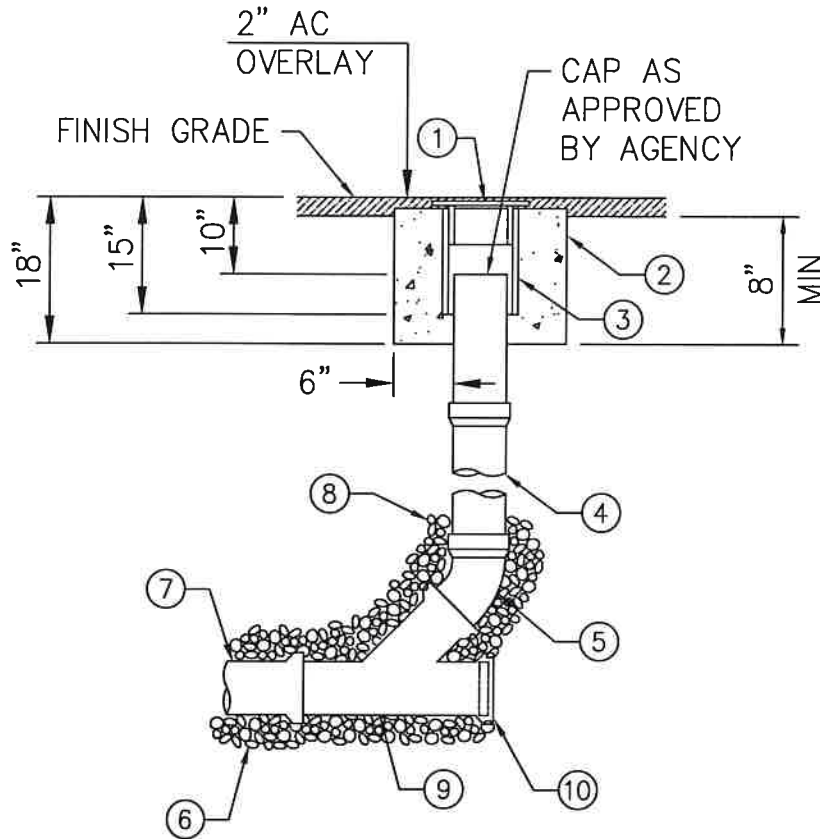
HOUSE LATERAL CONNECTION

DRAWN BY: DC  
CHECKED BY: NP, IL  
APPROVED BY: DP

STANDARD

S5  
2 OF 2


| REVISIONS | DATE | INITIAL |
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|           |      |         |
|           |      |         |
|           |      |         |



**NOTES:**

1. REFER TO CITY'S STANDARD SPECIFICATIONS WHERE APPLICABLE.
2. CLEANOUTS TO BE INSTALLED AT THE END OF MAINS WHERE INDICATED ON THE PLANS.
3. CLEANOUT PIPE TO BE SAME SIZE AND MATERIAL AS SEWER PIPE UP TO 8".
4. BACKFILL TO TOP OF 45° BEND WITH 3/4" CRUSHED ROCK.
5. MATERIALS SHALL BE SELECTED FROM THE CITY'S APPROVED MATERIALS LIST.
6. ITEM NO. 10 TO BE OMITTED IF CONNECTED TO A NEW OR EXISTING LATERAL.

| ITEM NO. | SIZE AND DESCRIPTION  | ITEM NO. | SIZE AND DESCRIPTION          |
|----------|---|----------|-------------------------------|
| ①        | 12" CAST IRON CLEANOUT BOX COVER, LID TO BE LABELED "SEWER" | ⑦        | SEWER LATERAL                 |
| ②        | CONCRETE RING   | ⑧        | 3/4" CRUSHED ROCK, SEE NOTE 4 |
| ③        | 12" PVC, C-900 X 15" LONG (CLEANOUT BOX)                    | ⑨        | STANDARD WYE BRANCH           |
| ④        | VCP PIPE AT REQUIRED LENGTH AND DIAMETER                    | ⑩        | INSTALL PLUG OR CAP           |
| ⑤        | 45° ELBOW   |          |                               |
| ⑥        | 3/4" CRUSHED ROCK PIPE BEDDING                              |          |                               |

  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263  
 8/28/17  
 DATE

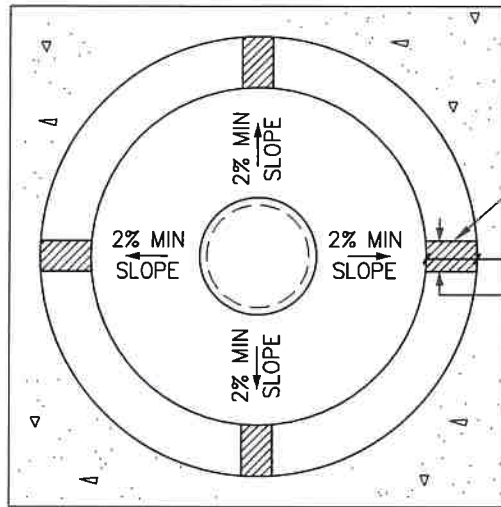
CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

SEWER LATERAL CLEANOUT

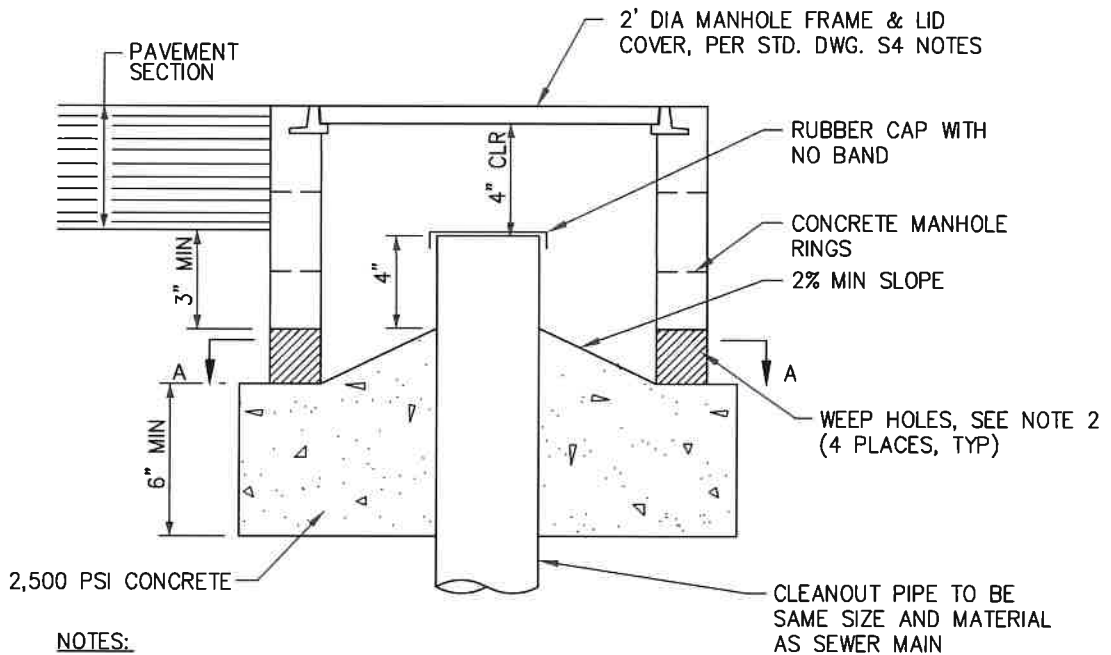
DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S6

REVISIONS  
 DATE INITIAL



SECTION A-A



**NOTES:**

1. CLEANOUTS INSTALLED IN LANDSCAPED EASEMENTS SHALL BE RAISED MINIMUM 2" ABOVE FINISH GRADE.
2. WEEP HOLES SHALL NOT BE COVERED WITH AC OR CONCRETE LAYER OF PAVEMENT SECTION.

*Rene Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263

9/18/17  
 DATE

**CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT**

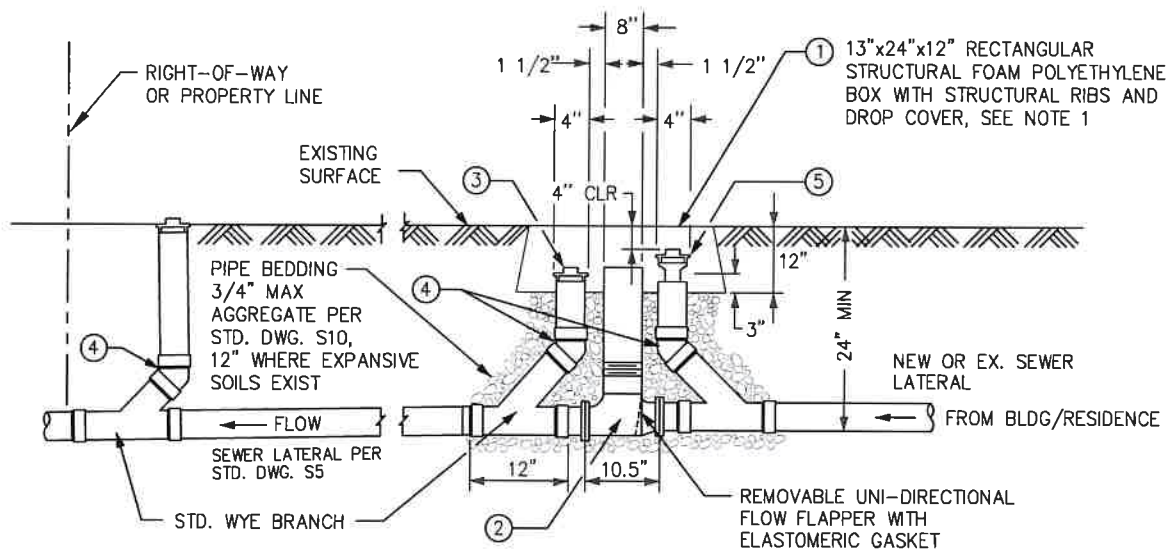
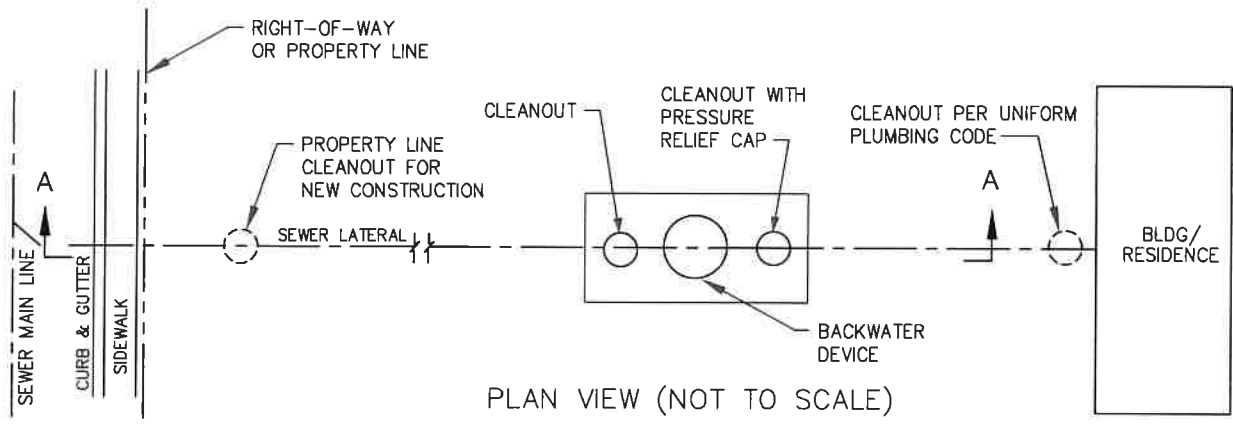
**SEWER MAIN CLEANOUT ACCESS**

| REVISIONS | DATE | INITIAL |
|-----------|------|---------|
|           |      |         |
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|           |      |         |

DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

**STANDARD    S7**





**NOTES:**

1. WHEN BACKWATER DEVICE IS INSTALLED IN THE DRIVEWAY, ALLEY OR STREET, A TRAFFIC RATED BOX AND LID IS REQUIRED.
2. ALL PIPING SHALL BE SPECIFIED AS VCP PIPE.

| ITEM NO. | SIZE AND DESCRIPTION   |
|----------|--|
| ①        | INSTALL VALVE BOX SO THAT IT IS FLUSH WITH EXISTING PAVEMENT OR SIDEWALK SURFACE, AND 1" ABOVE GRADE WHEN INSTALLED IN LANDSCAPE AREA. |
| ②        | BACKWATER DEVICE AND ATTACHED PARTS SHALL BE PER UNIFORM PLUMBING CODE (U.P.C) AND APPROVED BY THE BUILDING DIVISION.                  |
| ③        | CLEANOUT PLUG (ABS) THREADED.  |
| ④        | STANDARD 45° BEND.   |
| ⑤        | CLEANOUT WITH AN APPROVED PRESSURE RELIEF CAP. CAP SHALL NOT PROJECT INTO THE SEWER LATERAL CROSS SECTIONAL AREA.                      |

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263

9/18/17  
 DATE

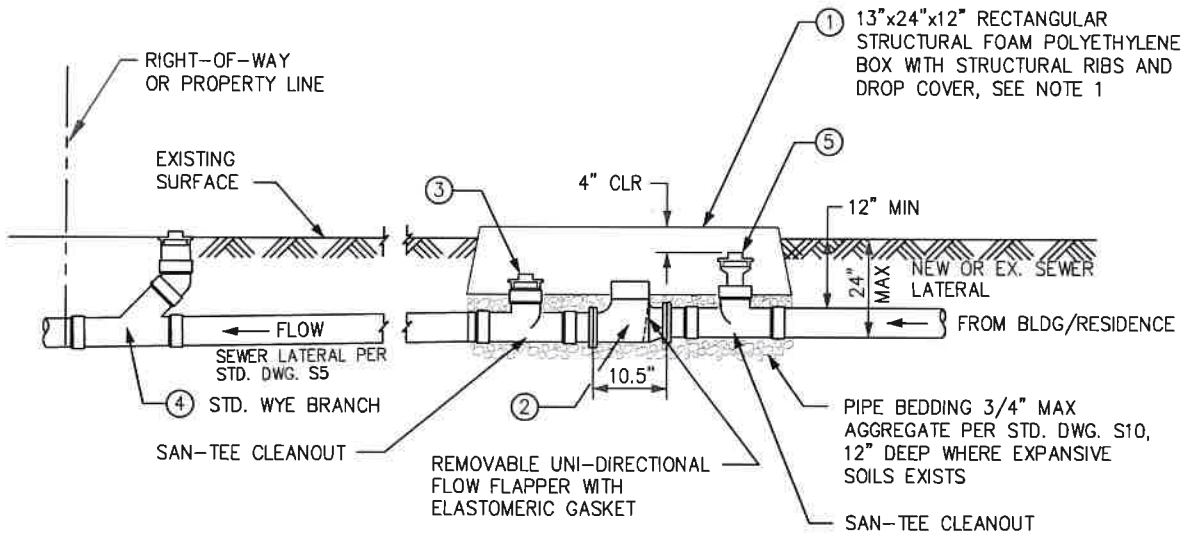
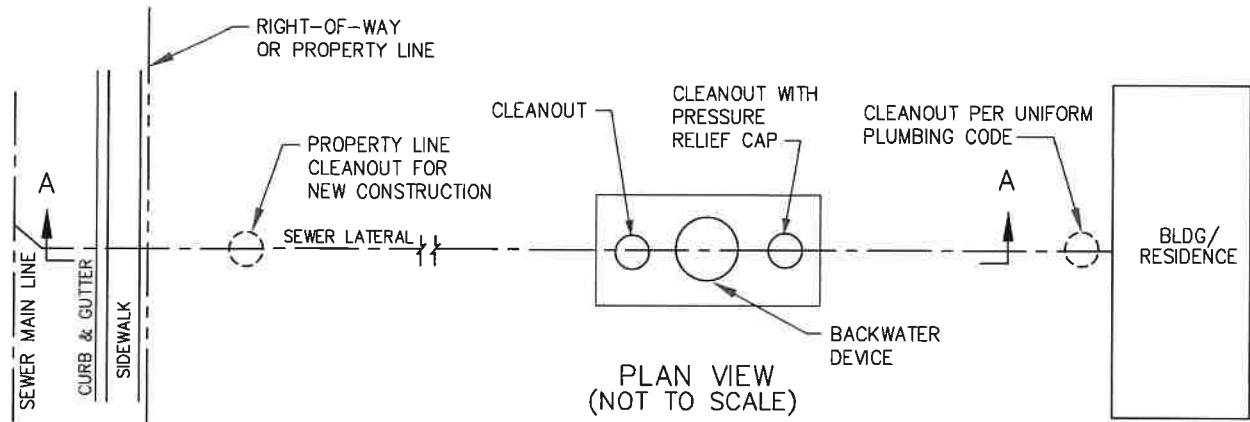
CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

4" BACKWATER DEVICE  
 (FOR LATERALS 2' OR DEEPER)

| REVISIONS | DATE | INITIAL |
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|           |      |         |
|           |      |         |
|           |      |         |

DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S8



SECTION A-A  
(NOT TO SCALE)

**NOTES:**

1. WHEN BACKWATER DEVICE IS INSTALLED IN THE DRIVEWAY, ALLEY OR STREET, A TRAFFIC RATED BOX AND LID IS REQUIRED.
2. ALL PIPING SHALL BE SPECIFIED AS VCP PIPE.

| ITEM NO. | SIZE AND DESCRIPTION   |
|----------|--|
| ①        | INSTALL VALVE BOX SO THAT IT IS FLUSH WITH EXISTING PAVEMENT OR SIDEWALK SURFACE, AND 1" ABOVE GRADE WHEN INSTALLED IN LANDSCAPE AREA. |
| ②        | BACKWATER DEVICE AND ATTACHED PARTS SHALL BE PER UNIFORM PLUMBING CODE (U.P.C) AND APPROVED BY THE BUILDING DIVISION.                  |
| ③        | CLEANOUT PLUG (ABS) THREADED.  |
| ④        | SAN-TEES ARE ALLOWED WHERE ID IS LESS THAN 24" DEEP.   |
| ⑤        | CLEANOUT WITH AN APPROVED PRESSURE RELIEF CAP. CAP SHALL NOT PROJECT INTO THE SEWER LATERAL CROSS SECTIONAL AREA.                      |

*René Guerrero*  
 RENE GUERRERO, CITY ENGINEER  
 RCE NO. 66263

9/18/17  
 DATE

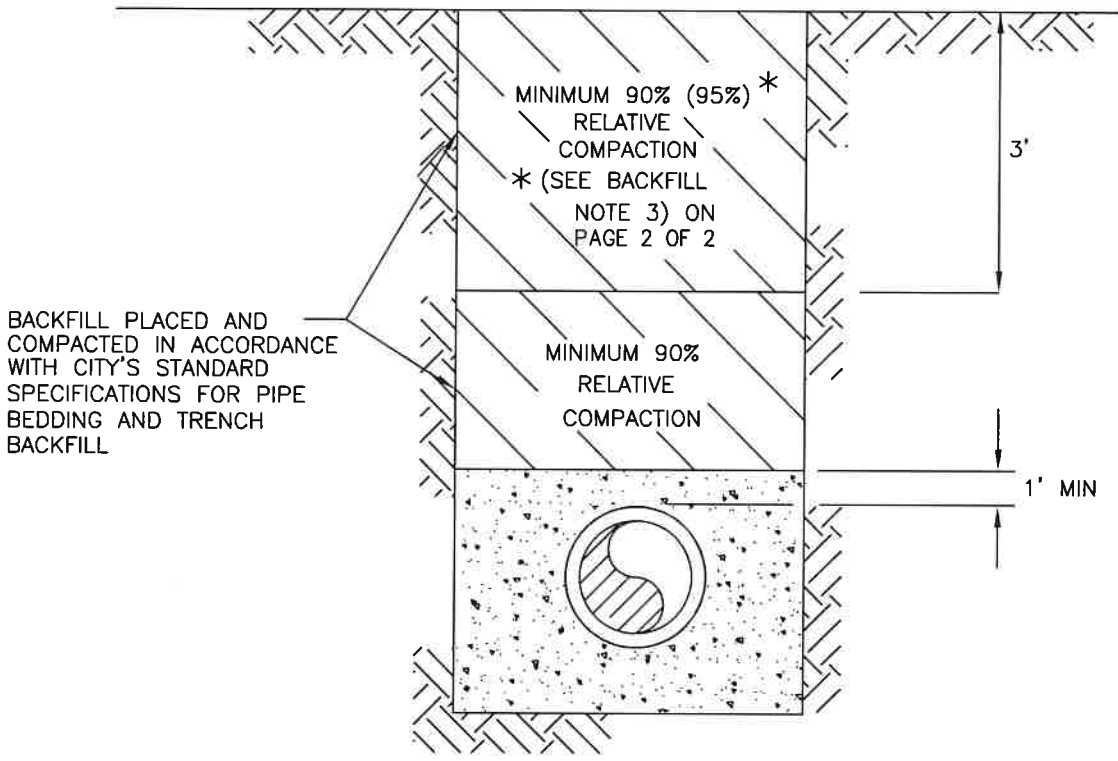
CITY OF POMONA  
 PUBLIC WORKS DEPARTMENT

4" BACKWATER DEVICE - SHALLOW  
 (FOR LATERALS)

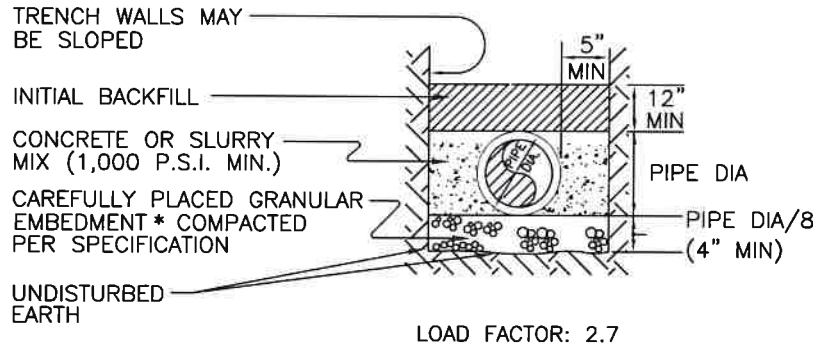
| REVISIONS | DATE | INITIAL |
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|           |      |         |

DRAWN BY: AA  
 CHECKED BY: IL, RG, NH  
 APPROVED BY: DP

STANDARD S9



BACKFILL DETAIL  
NO SCALE



NOTE: THIS TYPE OF CONSTRUCTION REQUIRES THE CONCRETE TO EXTEND FROM THE PIPE TO THE TRENCH WALL. CAUTION: NOT RECOMMENDED WHERE NATIVE SOILS ARE EXPANSIVE.

SLURRY BACKFILL DETAIL

*René Guerrero*  
RENE GUERRERO, CITY ENGINEER  
RCE NO. 66263

8/28/17  
DATE

CITY OF POMONA  
PUBLIC WORKS DEPARTMENT

PIPE BEDDING AND  
TRENCH BACKFILL NOTES

DRAWN BY: AA  
CHECKED BY: IL, RG, NH  
APPROVED BY: DP

STANDARD

S10  
1 OF 2

| REVISIONS | DATE | INITIAL |
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|           |      |         |
|           |      |         |
|           |      |         |

---

## **Appendix K Satellite Agreements**

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6-23-89  
86 2/88 Del Valle...  
4/9 100 sewer service



February 16, 1989

FEB 21 1989

Public Works/Engr.

West Valley Regional Manager's Office  
13260 Central Avenue  
Chino, CA 91710

Attention: Ms. Phyllis Ruse, Fiscal Officer

Dear Phyllis:

Subject: Annual Sewer Service Charges for  
City of Pomona Tracts 36075 and 36226

Pursuant to our telephone conversation of this date, the Annual Sewer Service Charges for the City of Pomona Tracts are delinquent not only for fiscal 1987/88, but also for 1986/87, and are now due for fiscal 1988/89.

The CBMWD tax allocation factors for the three fiscal years are as follows:

|                          | 86/87             | 87/88             | 88/89             |
|--------------------------|-------------------|-------------------|-------------------|
| Improvement District "C" | \$0.031593        | \$0.031580        | \$0.031696        |
| General District         | 0.018758          | 0.018663          | 0.018653          |
| <b>Total</b>             | <b>\$0.050351</b> | <b>\$0.050243</b> | <b>\$0.050349</b> |

Under the various contracts, it is the responsibility of the County to annually pay CBMWD and to collect the taxes from the City of Pomona. CBMWD is unable to compute an invoice as we do not have the appraised values of the properties delivering wastes to our Regional Plant #2 for treatment and disposal. Nor do we know the status of development within the subject tracts. Past correspondence to you regarding this agreement was always copied to Mr. Leslie Detty, Engineering Associate of the City of Pomona at Kathy North's request; so you might try contacting him for the appraised values for the three years now outstanding. The 1985/86 information showed that construction had not yet begun on tract 36226.

In light of the limited capacity at Regional Plant #2, it is my understanding that failure to pay the annual charges could result in the District's refusal to continue to accept wastes from homes within the tracts.

8555 ARCHIBALD AVENUE - POST OFFICE BOX 697 - RANCHO CUCAMONGA, CALIFORNIA 91730

|                               |                                   |   |   |                             |
|-------------------------------|-----------------------------------|---|---|-----------------------------|
| DWIGHT F. FRENCH<br>President | GEORGE A. BORBA<br>Vice-President | JOHN L. ANDERSON<br>Secretary/Treasurer | EDWARD A. GIRARD<br>Asst. Secretary/Treasurer | ANNE W. DUNIHUE<br>Director |
|-------------------------------|-----------------------------------|---|---|-----------------------------|

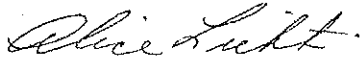
City of Pomona Tracts 36075 & 36226

Feb 16, 1989

I am enclosing copies of the various agreements concerning the provision of sewer service to these tracts as well as copies of other miscellaneous communications and notes.

In order to properly follow up on this matter, I would appreciate a response from you within 45 days. In the meantime, if I can be of any assistance, please do not hesitate to contact me at 987-1712.

Very truly yours,



Alice W. Lichti (Mrs.), Controller  
CHINO BASIN MUNICIPAL WATER DISTRICT

AWL:hs  
Enclosures

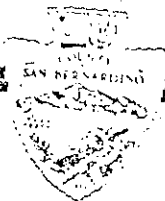
cc: Mr. Leslie Detty, Engineering Associate  
City of Pomona  
Department of Public Works  
505 South Garey Avenue  
Pomona, California 91769

*Emergency* *Had tenancy*  
*San Bernardino 988-1542*  
*W. at Valley Reg. Off.*

301-2.6  
*Creative*

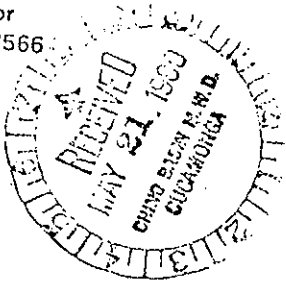
ENVIRONMENTAL PUBLIC WORKS AGENCY  
ENVIRONMENTAL IMPROVEMENT AGENCY

DEPARTMENT OF SPECIAL DISTRICTS  
1111 East Mill Street - B-1, Second Floor  
San Bernardino, CA 92415 • (714) 383-2566



County of San Bernardino

ALBERT R. REID  
Director



May 19, 1980

Chino Basin Municipal Water District  
8555 Archibald Avenue  
Cucamonga, California 91730

ATTN: Theo Nowak

SUBJECT: CITY OF POMONA, TENTATIVE TRACT 36075  
SEWER SERVICE

Dear Theo:

The enclosed executed documentation support the requirements to provide sewer service to 46 homes proposed in City of Pomona tract 36075. Request final CBMWD Board action approving tract sewer treatment at Regional Plant No. 2.

If you desire additional information, please contact me at (714) 383-2569.

ENVIRONMENTAL PUBLIC WORKS AGENCY

*Ed Cameron*  
ED CAMERON  
Special Districts Department

Enclosure

EC: dlb

Please Initial & Forward

*[Handwritten initials]*

*Place to review for*

*eligibility and prepare*

*Board action if accepted*

*Reknowledge receipt*

*copy Tom*

*[Handwritten initials]*

*Mr. Fran design draft*  
*Resolution referring to*  
*County request to pay.*  
*alice - check completion of*  
*\$ 47.68 back taxes*

JOHN M. BENARD  
E.P.W.A. Administrator

JAMES L. MAYFIELD  
CAL GELMAN

Board of Supervisors  
First District  
Second District  
ROB HARMOCK

DENNIS HANSENBERGER  
ROBERT O. THOMPSON

Third District  
Fourth District

102-3-17



# creative communities

March 18, 1980

San Bernardino County Board of Supervisors  
175 West Fifth Street  
San Bernardino, California 92415

Re: Payment of Ad Valorem Taxes -  
Tract 36075, Pomona, California

Gentlemen:

This letter agreement is made by the undersigned Rolling Ridge Estates Partners ("Developer") in connection with the proposed extension of sewer service by the County of San Bernardino (the "County") to Tentative Tract 36075 (consisting of final tracts 36075 and 36226) in the City of Pomona, California ("Pomona"). It has been proposed that sewage from Tentative Tract 36075 shall be conveyed through the County's sewer system to Regional Plant No. 2 of Chino Basin Municipal Water District ("CBMWD").

In consideration of the extension of such sewer service by the County, Developer agrees to pay to the County the past ad valorem tax charges for the Regional Wastewater and Tertiary Fund since 1972 for the lots within Tentative Tract 36075. Said past taxes amount to Forty-seven and 68/100 Dollars (\$47.68). The County shall transmit such amount to CBMWD. Developer shall be obligated to pay such past taxes at such time as CMBWD adopts a resolution to accept sewage transported by the County from Tentative Tract 36075.

Very truly yours,

ROLLING RIDGE ESTATES PARTNERS,  
a California general partnership

By its partner, CREATIVE COMMUNITIES,  
a California corporation

By Richard K. Osby Sec. + Treas.

By its partner, BRAMALEA LIMITED,  
a Canadian corporation

By Janay Kruger

cc: Mr. Ed Cameron  
Mr. Steve Edwards, Esq.



FROM

ALBERT R. REID, Director (1035)  
Special Districts Department

Robert B. Rigney, Administrator

TO

BOARD OF SUPERVISORS

- Xc: (1) Earl Goodwin
- (1) Clerk of the Board
- (1) Robert B. Rigney



AGENDA ITEM: SEWER SERVICE AGREEMENTS FOR POMONA TRACTS 36075 and 36226 (CHINO HILLS)

RECOMMENDATION:

- 1.) Approve Agreement between the County of San Bernardino and the City of Pomona to provide sewer service to Pomona Tracts 36075 and 36226. AGREEMENT NO. 80-359
- 2.) Approve Agreement between the County of San Bernardino and County Service Area No. 70, Improvement Zone E to provide for sewage flow from Pomona Tracts 36075 and 36226, through the Improvement Zone collector system.

BACKGROUND:

AGREEMENT NO. 81-360

Rolling Ridge Estates is a development proposed for the North Chino Hills adjacent to the boundary between San Bernardino County and Los Angeles County. San Bernardino Tract 9227, will receive sewer service by County Service Area No. 70, Improvement Zone E (CSA 70E). A portion of the overall development (46 homes) will be in the City of Pomona, Tracts 36075 and 36226. Sewer service for the Pomona Tracts can best be served by gravity flow through the CSA 70 E system for treatment at Chino Basin Municipal Water Districts (CBMWD) Regional Plant No. 2 (RP #2).

The City of Pomona has agreed to this service arrangements and to the necessary service fees and charges. CBMWD agrees to accept and treat the Pomona Tracts sewage contingent upon arrangements for payment of all Regional fees and charges. The proposed agreements will provide for sewer service and necessary financial arrangements.

AGREEMENT NO. 80-359

AGREEMENT NO. 81-360

PREPARED BY:

Ed Cameron

ED CAMERON  
DATE: 4/25/80 EXT. 2569

REVIEWED BY:

- COUNTY COUNSEL
- PERSONNEL
- CONTRACT COMPLIANCE
- ADVISORY GROUP
- OTHER

FINANCIAL DATA: This Year Full Year  
Expenses  
Revenue & Source  
1/10  
Local County/  
District Cost

CLERK OF THE BOARD

**APPROVED BOARD OF SUPERVISORS  
COUNTY OF SAN BERNARDINO**

|        |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|
| MOTION | <u>✓</u> | <u>✓</u> | <u>✓</u> | <u>M</u> | <u>S</u> |
|        | 1        | 2        | 3        | 4        | 5        |

ANDREE DISHARON, CLERK OF THE BOARD  
BY Albert Maloney  
DATED: MAY 5 1980

cc: Spec. Dists. w/agrees.; Contractors w/agrees.  
Spec. Dists.; Auditor w/agrees.;  
File w/orig. agree.



DISTRICT  
STANDARD CONTRACT

|   |                |          |         |   |  |
|---|----------------|----------|---------|---|--|
| District<br>Special Districts Department  |                |          |         | CONTRACT NUMBER<br>SD-359   |  |
| District Contract Representative<br>Ed Cameron  |                |          |         | Ph. Ext. 2569   |  |
| <input checked="" type="checkbox"/> Renewable <input type="checkbox"/> Termination          |                |          |         | Date: indefinite  |  |
| Budget Unit No.   | Sub-Object No. | Fund No. | Job No. | Amount of Contract  |  |
| Check One: <input type="checkbox"/> Expenditure <input checked="" type="checkbox"/> Revenue |                |          |         | If contract has more than one payment or receipt, complete the following. |  |
| S.S.A. # _____  |                |          |         | Number of payments: annual  |  |
| or Federal Employer ID # _____  |                |          |         | Estimated amount of each: \$ _____  |  |

THIS CONTRACT is entered into in the State of California by and between the \_\_\_\_\_

County of San Bernardino, hereinafter called District, and

The City of Pomona

hereinafter called Pomona

IT IS HEREBY AGREED AS FOLLOWS:

*(Use space below and reverse side of form if needed. Set forth service to be rendered, amount to be paid, manner of payment, time for performance or completion, determination of satisfactory performance and cause for termination, other terms and conditions, and attach plans, specifications, and addenda, if any.)*

RECITALS

A. Rolling Ridge Estates is a proposed planned residential community or communities (hereinafter "Rolling Ridge Estates") located almost entirely in the County with a small portion located in Pomona. Pomona has approved Tentative Tract 36075 (consisting of final tracts 36075 and 36226) for the portion of Rolling Ridge Estates located in Pomona, and said portion of Rolling Ridge Estates shall hereinafter be referred to as the "Pomona Tracts".

B. In order to service a large community, the interests of the public will best be served if the County provides sewer service to the Pomona Tracts. Although the County is the negotiating agent for this Agreement, the County has formed Improvement Zone E of County Service Area 70 (hereinafter the "Improvement Zone") to operate and maintain the sewer system within the portion of Rolling Ridge Estates within the County.

Any provisions on the reverse side and referenced attachments hereof constitute a part of this contract and incorporated herein in full.

C: The purpose of this Agreement is to establish the manner in which the County (through the Improvement Zone) is willing to accept sewerage from the Pomona Tracts into the sewer system established for Rolling Ridge Estates pursuant to the Joint Exercise of Powers Act, Section 6500 and following, of the California Government Code (hereinafter the "Act"). The sewer service to be provided to the Pomona Tracts under this Agreement is a power common to the contracting parties.

W I T N E S S E T H

Section 1 - Sewer Service to Tract 36075.

(a) The County is willing to accept sewage from the Pomona Tracts through the collector system maintained by the Improvement Zone and to convey such sewage to the regional sewage treatment facility at Chino Basin Municipal Water District ("CBMWD") Regional Plant No. 2.

(b) The sewer system within the Pomona Tracts shall be owned, operated, and maintained by the County.

(c) Notwithstanding the foregoing or anything else contained in this Agreement, should CBMWD be unwilling or unable to accept sewage from the Pomona Tracts at its Regional Plant No. 2, neither party hereto shall have any obligation hereunder, and Pomona and the developer of Rolling Ridge Estates shall be free to provide for sewage service to the Pomona Tracts by other means.

Section 2 - Payment for Sewer Service.

(a) The County shall bill Pomona for the cost of providing sewer service to the Pomona Tracts. Billing shall be annually and cover the period July 1 to June 30 of the preceeding year.

(b) As used in paragraph (a), the costs of providing sewer service shall be the disposal fees, operational costs and maintenance costs established by the County's Board of Supervisors for homes connected to the sewer system maintained and operated by the Improvement Zone. If such costs

are not set by the Board of Supervisors on a per connection basis, the portion payable by Pomona hereunder shall be prorated based on the number of connections in the County system compared to the number of connections in the Pomona Tracts.

(c) Pomona shall pay to the County, within 30 days after receipt of the billing statement, the amount due.

Section 3 - In-lieu Payments. In addition to the payments required under Section 2 above, the County will concurrently bill Pomona for the payment to CBMWD an amount equal to and in lieu of all Regional Wastewater and Tertiary fund ad valorem tax and other charges for homes connected to the Improvement Zone's sewer system in the Pomona Tracts. Said charges shall be calculated on the same basis as for homes within the County.

Section 4 - Level of Services. The County shall provide the sewer service specified in this Agreement to the Pomona Tracts at the same level at which such services are provided by the County to the residents of the County.

Section 5 - No Agency. This Agreement shall be administered by the parties pursuant to the terms hereof, and no separate administrative agency or entity within the meaning of the Act shall be created.

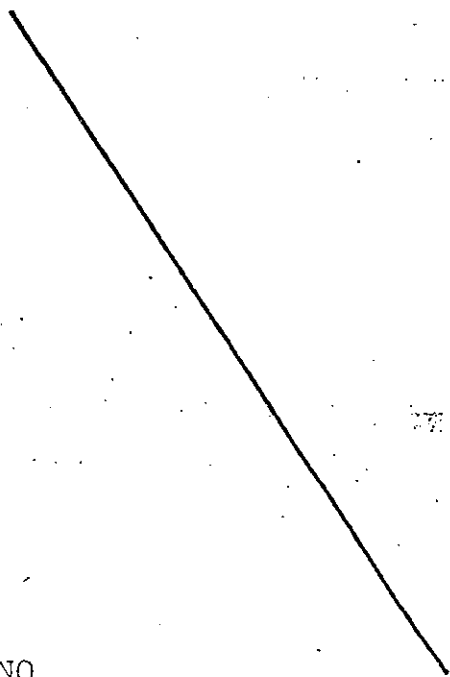
Section 6 - Termination. This Agreement may be modified or terminated only by the written agreement of the County and Pomona.

Section 7 - Hold Harmless. The County hereby agrees to defend, indemnify and hold Pomona entirely free and harmless from any damages, charge liabilities, actions or causes of action arising out of the provision by the County of sewer service to the Pomona Tracts pursuant to this Agreement including without limitation attorney's fees. This provision shall not apply to any damages, charges, liabilities, actions or causes of action arising out of any act or omission of or attributable to Pomona.

Section 8 - Disputes. In the event of any dispute concerning this

Agreement, the parties shall promptly designate one or more representatives to meet and settle such dispute as quickly as possible. If said representatives are unable to resolve any such disputes within 30 days after a party has notified the other party in writing of the existence of the dispute, either party may pursue such other remedies as may be available to it in relation to the dispute.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the dates set forth next to their names below, although this Agreement is dated for convenience and reference as first above written.



COUNTY OF SAN BERNARDINO

DISTRICT \_\_\_\_\_

Chairman, Board of Supervisors \_\_\_\_\_

Dated MAY 5 1980

ATTESTED: Robert Maloney

ATTEST: [Signature]  
City Clerk

(Legal title of Contractor - state of corporation, company, etc.)

THE CITY OF POMONA  
By [Signature]

Dated April 7, 1980

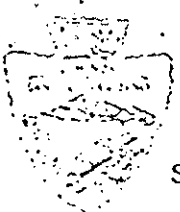
Title Mayor

Address 505 S. Garey Ave. - P.O. Box 660  
Pomona, California 91769

APPROVED AS TO FORM: [Signature]  
City Attorney

Approved as to legal form Original signed  
By Edward Duddy, Date 4-28-80  
Dep. County Counsel  
County Counsel

Reviewed as to budget expenditure  
Date \_\_\_\_\_  
County Administrative Office



DISTRICT  
STANDARD CONTRACT

|  |                                     |                 |   |                    |  |
|--|-------------------------------------|-----------------|---|--------------------|--|
| District<br>CSA 70 E   |                                     |                 | CONTRACT NUMBER<br>80-360   |                    |  |
| District Contract Representative<br>Ed Cameron                                   |                                     |                 | Ph. Ext. 2569   |                    |  |
| <input checked="" type="checkbox"/> Renewable                                    | <input type="checkbox"/> Terminates |                 |   |                    |  |
| Date indefinite  |                                     |                 |   |                    |  |
| Budget Unit No.<br>030   | Subject No.<br>9576                 | Fund No.<br>670 | Job No.   | Amount of Contract |  |
| Check One: <input type="checkbox"/> Expenditure <input type="checkbox"/> Revenue |                                     |                 | If contract has more than one payment or receipt, complete the following. |                    |  |
| S.S.A. # _____   |                                     |                 | Number of payments <u>annual</u>  |                    |  |
| or Federal Employer ID # _____   |                                     |                 | Estimated amount of each: \$ _____  |                    |  |

THIS CONTRACT is entered into in the State of California by and between the \_\_\_\_\_  
County Service Area 70, Improvement Zone E, hereinafter called District, and  
County of San Bernardino  
 hereinafter called County

IT IS HEREBY AGREED AS FOLLOWS:

*(Use space below and reverse side of form if needed. Set forth service to be rendered, amount to be paid, manner of payment, time for performance or completion, determination of satisfactory performance and cause for termination, other terms and conditions, and attach plans, specifications, and addenda, if any.)*

WITNESSETH

WHEREAS, The County has entered in an agreement with the City of Pomona to provide sewer service to 46 residential homes located in Pomona tracts 36075 and 36226; and

WHEREAS, Pomona tracts 36075 and 36226 will be developed adjacent to the County of San Bernardino tract 9227; and

WHEREAS, the County will own, operate and maintain the sewage collection system within tracts 36075 and 36226; and

WHEREAS, the District will own, operate and maintain the sewage collection system within tract 9227; and

WHEREAS, the sewage collection system of the County will be an integral part of the District's system; and

WHEREAS, the District sewage collection system has line size capacity to handle flow from the Pomona tracts;

NOW THEREFORE, in consideration of the promises and mutual benefits herein contained, the parties agree to as follows:

Any provisions on the reverse side and referenced attachments hereof constitute a part of this contract and are incorporated herein in full.

1. The County shall deliver domestic sewage from Pomona tracts 36075 and 36226 to the District sewage collection system.
2. The District shall transport County system sewage through its system to the Chino Basin Municipal Water District's west side interceptor for required treatment at Regional Plant #2.
3. The District will be responsible for administration of this agreement and the agreement between the County and the City of Pomona, including all accounting and billing responsibilities.
4. All fees and charges collected pursuant to the County/City of Pomona agreement shall be retained by the District for payment of sewer service provided and in-lieu payments distribution.

IN WITNESS WHERE OF, the parties have executed this Agreement as of the dates set forth next to their names below.

COUNTY SERVICE AREA 70, IMPROVEMENT ZONE E  
 DISTRICT  
 \_\_\_\_\_  
 Chairman, Board of Supervisors, as Governing Board  
 of COUNTY SERVICE AREA 70, IMPROVEMENT ZONE E  
 Dated   MAY  5  1980  

ATTESTED:  
 \_\_\_\_\_  
 \_\_\_\_\_

COUNTY OF SAN BERNARDINO  
 \_\_\_\_\_  
 (Legal title of Contractor - state if corporation, company, etc.)  
 By \_\_\_\_\_  
 Chairman, Board of Supervisors  
 Dated   MAY  5  1980    
 Title   CHAIRMAN, BOARD OF SUPERVISORS    
 Address   2ND FLOOR, 175 WEST FIFTH STREET  
 SAN BERNARDINO, CALIFORNIA 92415  

Approved as to legal form  
 \_\_\_\_\_  
 County Counsel  
 Date   4-28-80    
 02-12-157-104

Reviewed as to budget expenditure  
 \_\_\_\_\_  
 County Administrative Office  
 Date \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_

RESOLUTION NO. 80-6-1

RESOLUTION OF THE BOARD OF DIRECTORS OF THE CHINO  
BASIN MUNICIPAL WATER DISTRICT, SAN BERNARDINO  
COUNTY, CALIFORNIA, DECLARING WILLINGNESS TO  
ACCEPT SEWAGE FROM TENTATIVE TRACT 36075 IN THE  
CITY OF POMONA, LOS ANGELES COUNTY

WHEREAS, Tentative Tract 36075 (consisting of final tracts 36075 and 36226) located in Pomona is a portion of Rolling Ridge Estates being developed by Creative Communities; and

WHEREAS, sewage from Tentative Tract 36075 is proposed to be collected and transported to Chino Basin's Regional Plant No. 2 for treatment by the County of San Bernardino in accordance with Regional Sewer Service Contract dated February 17, 1976.

WHEREAS, Creative Communities (Rolling Ridge Estates Partners - Developer) in their letter of agreement dated March 18, 1980 to the San Bernardino County Board of Supervisors, agreed to pay the ad valorem taxes due since 1972; and

WHEREAS, the San Bernardino County Board of Supervisors on May 5, 1980 approved two agreements; 1) 80-359 and 80-360, between the County Special Districts Department and the City of Pomona and County Service Area 70, Improvement Zone E respectively to provide for this service; and

WHEREAS, said agreements provide for payments to Chino Basin Municipal Water District amounts equal to and in lieu of all Regional Waste Water and Tertiary fund ad valorem tax and other charges on the same basis as for homes within the county; and

WHEREAS, it has been determined that this method of collection and disposal best serves said final tracts; and

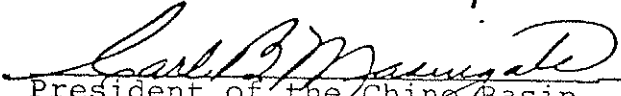
WHEREAS, the Mayors' and Presidents' Policy Committee on December 3, 1979 unanimously recommended that Chino Basin Municipal Water District proceed with providing this service through the San Bernardino County in accordance with the terms of the Regional Contract.

NOW, THEREFORE, BE IT RESOLVED that the Chino Basin Municipal Water District agrees to accept domestic waste from final tracts 36075 and 36226 within the City of Pomona upon receipt of eighty five dollars and twenty six cents in lieu of the ad valorem tax considered due since 1972 when the Regional Sewer Program was implemented.

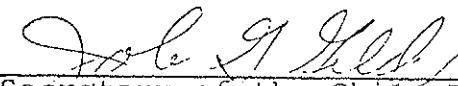


BE IT FURTHER RESOLVED that domestic sewer service will be provided by Chino Basin Municipal Water District, in accordance with said Regional Sewer Contract, to the County of San Bernardino.

ADOPTED this 4th day of June, 1980.

  
\_\_\_\_\_  
President of the Chino Basin  
Municipal Water District and of  
the Board of Directors thereof.

ATTEST:

  
\_\_\_\_\_  
Secretary of the Chino Basin  
Municipal Water District and of  
the Board of Directors thereof.

(SEAL)

RECEIVED

DEC 4 1985

CHINO BASIN MUNICIPAL  
WATER DISTRICT

County of San Bernardino



|                |
|----------------|
| ROUTE TO:      |
| <i>M. Rose</i> |
|                |
|                |
|                |

RICHARD J. RIEKER  
Chino Valley Manager  
THOMAS M. ROSE  
District Manager

COUNTY  
WATERWORKS DISTRICT NO. 8

14575 Pipeline Avenue  
Chino, CA 91709  
(714) 597-1785

December 2, 1985

Mr. Leslie Detty, Engineering Associate  
City of Pomona  
Department of Public Works  
505 So. Garey Avenue  
Pomona, California 91769

Re: Joint Power Agreement, Sewer Service for Tract 36075 and  
36226

Dear Mr. Detty:

Attached for your use is a breakdown of the dwelling units  
presently connected to the District's system under the Contract  
80-359.

On November 19, 1985, we performed a dye test at the  
following locations and determined that there were positive  
connections to the Waterworks District No. 8 Sanitation System.

ROCK CREST LANE -- Tract 36075

| <u>Lot No.</u> | <u>Address</u>   |   |
|----------------|------------------|---|
| 1              | 12809 Crest Lane | Parking lot with existing sewer lateral |
| 2              | 12817 Crest Lane |   |
| 3              | 12825 Crest Lane |   |
| 4              | 12833 Crest Lane |   |
| 5              | 12841 Crest Lane |   |
| 6              | 12859 Crest Lane |   |
| 7              | 12867 Crest Lane |   |
| 8              | 12875 Crest Lane |   |

SCENIC RIDGE DRIVE -- Tract 36075

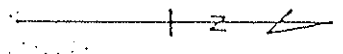
|    |                         |
|----|-------------------------|
| 19 | 2566 Scenic Ridge Drive |
| 30 | 2318 Scenic Ridge Drive |

This should present all the information you need in order to provide  
us with the Tax Assessor Rolls as requested in my communique' to  
you of November 2, 1985. If you should have any further questions,  
please feel free to contact me.

Very truly yours  
WATERWORKS DISTRICT NO. 8

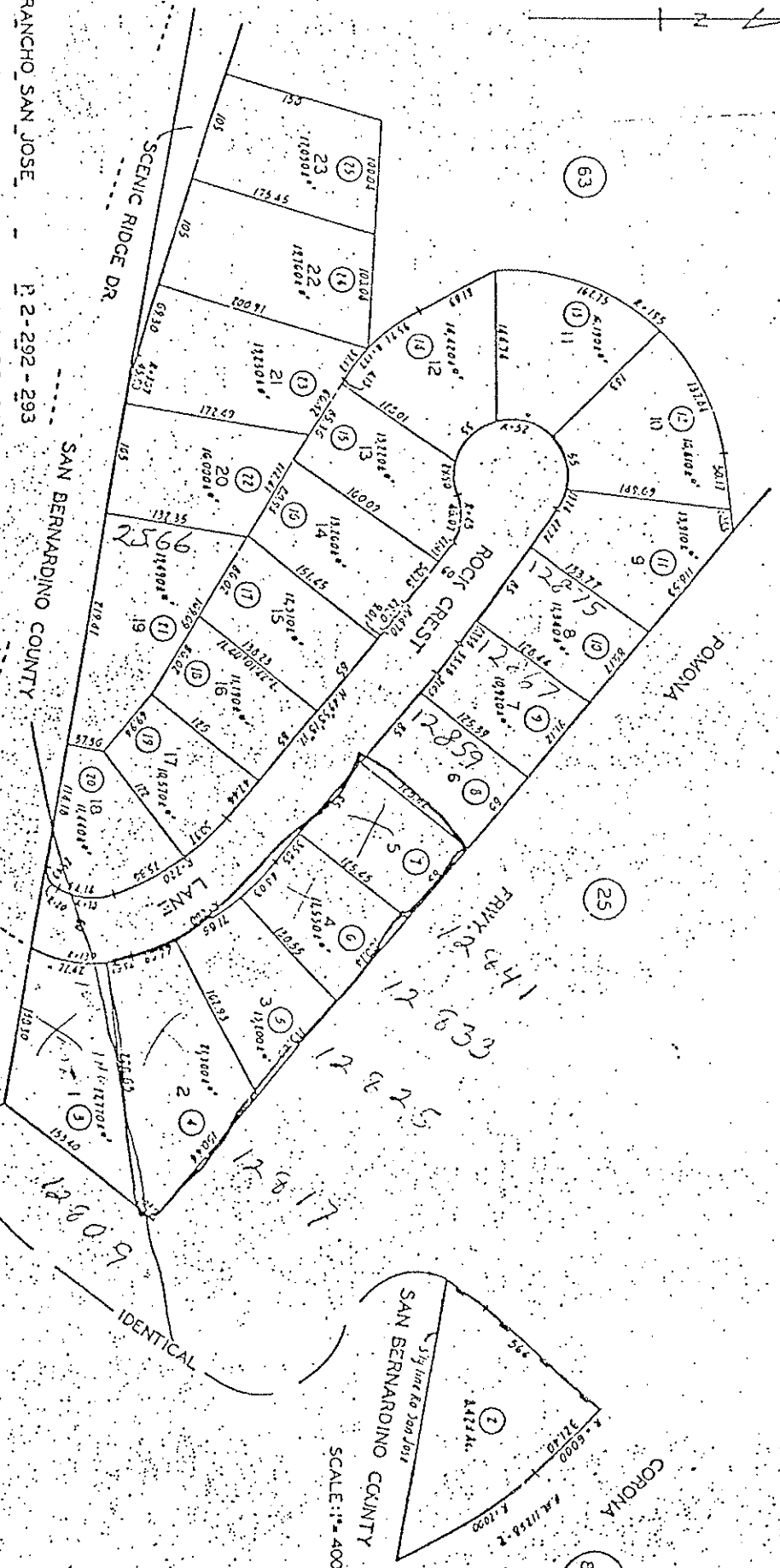
TMR:dc  
Attachment  
cc: Richard J. Rieker, C.V.R.M.  
Kathy North, C.R.R.M.O.  
Alice W. Lichti (Mrs.) CBMWD

Thomas M. Rose,  
District Manager



RANCHO SAN JOSE  
 TRACT NO. 36075  
 P 2-292-293  
 M.B. 953-22-26

FOR PREV. ASSM'T SEE:  
 6708-55



SCALE 1" = 100'

SCALE 1" = 400'

ASSISOR'S MAP  
 COUNTY OF LOS ANGELES, CALIF.

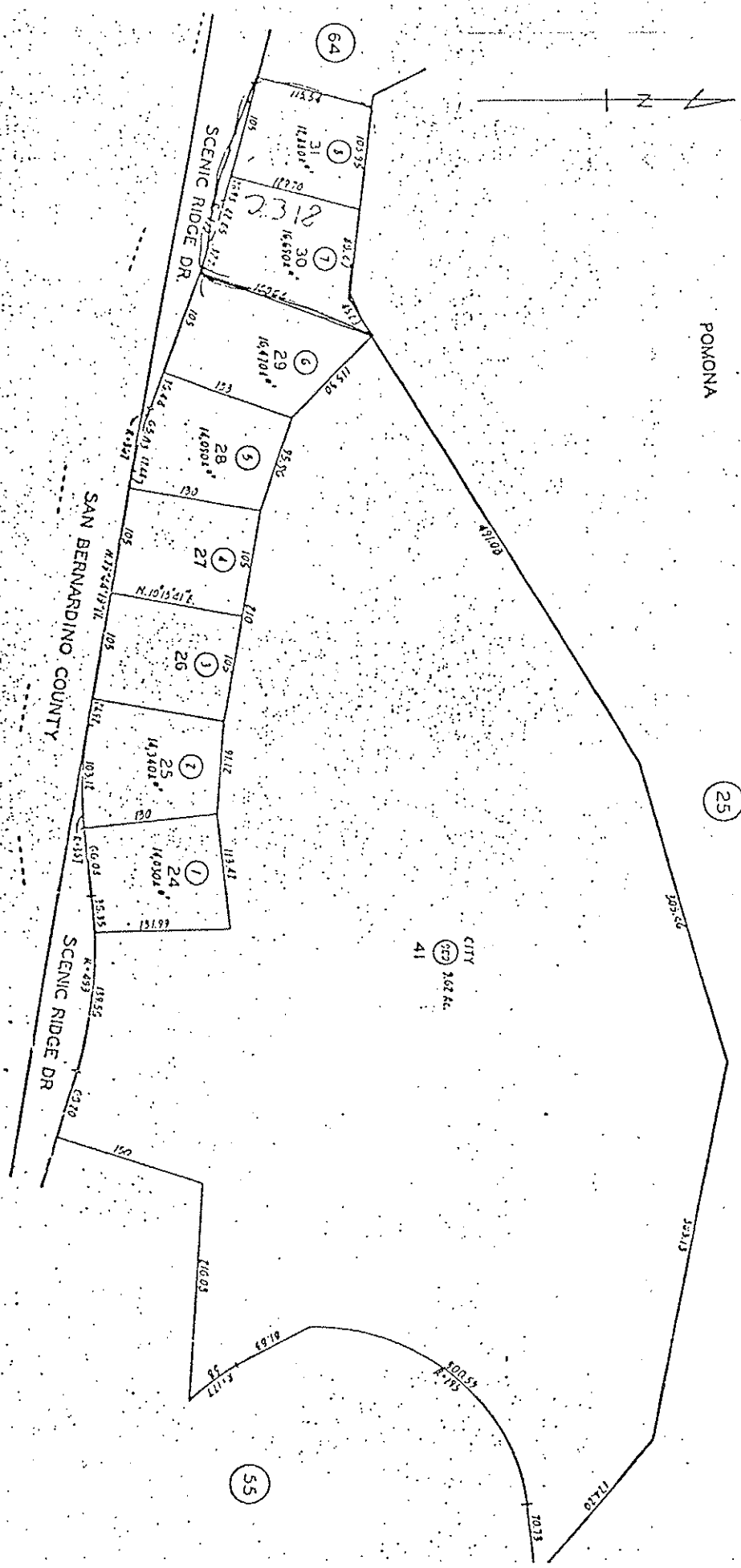
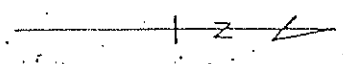
LA 11

UNFILED

2025/10

POMONA

FRWY.

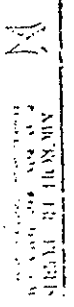


FOR PREV. ASSAULT SEE:  
8706-55

TRACT NO. 36075

M. B. 953-22-20

ASSASSOR'S MAP  
COUNTY OF LOS ANGELES



AGREEMENT

BETWEEN SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY

CITY OF POMONA

CITY OF CHINO, AND

"C" MCGEE ELECTRIC, INC,

GOVERNING THE CONVEYANCE, TREATMENT, AND DISPOSAL OF WASTEWATER  
PROVIDING COVENANTS WHICH RUN WITH THE LAND AND BIND  
SUBSEQUENT PURCHASERS THEREOF

AGREEMENT

This AGREEMENT is made and entered into this <sup>24<sup>th</sup></sup>~~25<sup>th</sup>~~ day of <sup>September</sup>~~August~~, 1986,  
by and between COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, a public  
agency, hereinafter referred to as "District", CITY OF POMONA, a municipal cor-  
poration located in the County of Los Angeles, hereinafter referred to as  
"Pomona", CITY OF CHINO, a municipal corporation located in the County of San  
Bernardino, hereinafter referred to as "Chino", and "C" MCGEE ELECTRIC, INC.,  
hereinafter referred to as "Developer".

WITNESSETH

WHEREAS, Developer owns a 5.138 acre parcel of vacant land zoned  
commercial/industrial, located immediately east of Mills Avenue, between Olive  
Street and County Road; and

WHEREAS, said parcel is immediately east of the Los Angeles/San Bernardino  
County line such that said parcel is in San Bernardino County and within the  
jurisdictional boundaries of Chino; and

WHEREAS, Developer intends to develop said parcel and requires sewerage  
service for the prospective buildings; and

WHEREAS, Chino does not have any sewers in the immediate vicinity  
of said parcel; and

WHEREAS, the topography and natural barriers in the vicinity of said parcel  
make connection of said parcel to the sewer system of Pomona the most economical  
means of disposing of wastewater; and

WHEREAS, it is in the best interest of Chino and Pomona for the sewer  
that will be installed for said parcel to become a part of the system to be  
owned, operated and maintained by Pomona; and

WHEREAS, Developer is willing to construct a sewer leading from said parcel to the sewer system owned by Pomona; and

WHEREAS, the sewer system owned by Pomona is connected to District's sewerage system; and

WHEREAS, District is authorized by the County Sanitation District Act to contract with any person for the conveyance, treatment, and disposal of wastewater originating within or without the District, if, in the judgment of District's Board of Directors, it is in the best interest of District to do so; and

WHEREAS, it is in District's best interest to accept wastewater flows from San Bernardino County provided that District is adequately compensated for services rendered and facilities provided; and

WHEREAS, District is willing to accept wastewater into its sewerage system from areas located in San Bernardino County and outside of District upon conditions that would place individual wastewater dischargers in the areas outside of District in a position similar to that of wastewater dischargers located within District; and

WHEREAS, District has adopted a Connection Fee Ordinance which imposes charges for the privilege of connecting a parcel within District directly or indirectly to District's sewerage system or for increasing the strength and/or quantity of wastewater attributable to a connected parcel; and

WHEREAS, District has adopted a Revenue Program which establishes a procedure for charging wastewater dischargers the costs of wastewater conveyance, treatment, and disposal;

THEREFORE, in consideration of the promises and mutual covenants herein contained, the parties hereto agree as follows:

#### 1. DEFINITIONS

(a) "Chief Engineer" - shall mean the Chief Engineer and General Manager of County Sanitation District No. 21 of Los Angeles County or his duly authorized deputy or agent.

(b) "City Engineer, Chino" - shall mean the City Engineer of the City of Chino or his duly authorized deputy or agent.

(c) "City Engineer, Pomona" - shall mean the City Engineer of the City of Pomona or his duly authorized deputy or agent.

(d) "Pomona Facilities" - shall mean the sewerage system owned by the City of Pomona.

(e) "Connection fee" - shall mean the charges imposed pursuant to this Agreement by District and by Pomona on a person for the privilege of connecting a parcel directly or indirectly to District and Pomona Facilities as herein defined or for increasing the strength and/or quantity of wastewater attributable to a connected parcel. Said charges shall be computed in accordance with District's Connection Fee Ordinance and with Pomona's Municipal

Code with respect to parcels located within District and Pomona. Revenue from said charges shall be used for capital facilities.

(f) "Connection Fee Ordinance" - shall mean Connection Fee Ordinance for County Sanitation District No. 21 adopted by District on December 28, 1982, amended effective March 1, 1984, as said Ordinance may be amended from time to time.

(g) "District Facilities" - shall mean those facilities owned by District or to be constructed in the future by District, singly or together with other County Sanitation Districts of Los Angeles County, which provide for the conveyance, treatment and disposal of wastewater from District, including wastewater flows originating from outside District.

(h) "Equivalent Annexation Fee" - shall mean a charge equal to the charge imposed by District on a person for the privilege of annexing a parcel to District. It shall be based on a modified annexation fee rate for the District which includes only cash on hand and anticipated revenue for debt service.

(i) "Fiscal Year" - shall mean the twelve (12) month budgetary period between July 1 and the succeeding June 30 currently used by District or other budgetary period adopted by District in the future.

(j) "Industrial Wastewater" - shall mean all water carried wastes and wastewater of the community excluding domestic wastewater and uncontaminated water, and shall include all wastewater from any producing, manufacturing, processing, institutional, commercial, agricultural, or other operations where the wastewater discharged includes significant quantities of wastes of non-human origin. All liquid wastes hauled by truck, rail, or another means shall be considered as industrial wastewater regardless of the original source of the wastes. Hauled domestic wastewater is included in the category of industrial wastewater.

(k) "Parcel" - shall mean the portion of San Bernardino County described in Exhibit A, and delineated in Exhibit B.

(l) "Person" - shall mean any individual, partnership, committee, association, corporation, public agency, and any other organization or group of persons, public or private.

(m) "Wastewater Ordinance" - shall mean that Ordinance providing for the administration of an industrial wastewater control system, for regulating sewer construction and sewer use, for the imposition of a permit requirement for industrial wastewater dischargers, for the prohibition or pretreatment of industrial wastewaters, for the imposition of fee and charges, for the distribution of revenue and for other methods of controlling and regulating the discharge of wastewaters as adopted by County Sanitation District No. 21 of Los Angeles County on April 1, 1972 as amended on July 1, 1980, and as hereafter amended.

## 2. CONDITIONS FOR DISCHARGE

District shall, during the term of this Agreement, permit wastewater originating within the parcel to be discharged into District Facilities by way of the sewerage system owned by Pomona provided that all provisions of this Agreement are upheld by the parties hereto.

(a) The sewer shall be extended from the existing sewerage system owned by Pomona to the parcel in accordance with plans approved by both Pomona and District. All work shall be at Developer's expense. Upon completion and acceptance by City Engineer, Pomona, ownership and maintenance of that portion within its City limits, will be assumed by the City of Pomona.

(b) Prior to construction, Developer shall submit a plan to City Engineer, Pomona for approval showing all proposed facilities.

(c) Developer shall obtain the proper permits pertaining to sewer construction and use which are required by the other parties hereto.

(d) Developer shall not allow any industrial wastewater to be discharged into the sewers within the parcel and hence to the Districts sewage system.

(e) In the event that the parcel is sold or further development is planned, Developer shall notify the City of Pomona and District immediately. No new or additional facilities shall be afforded sewerage service by the District unless approved by the City Engineer, Pomona, and the District's Chief Engineer. Additional equivalent annexation fees and connection fees computed in conformance with existing rates will be required prior to connection of additional facilities. Annual charges specified in Article 3 (b) shall also be adjusted appropriately.

(f) Chino shall require every person who proposes improvements which result in any new or additional discharge of wastewater from the parcel to the sewerage system, to obtain an approved sewerage system connection fee application from the District, copy of which must be submitted to Chino prior to Chino issuing any permits authorizing such improvements. Chino gives permission to Pomona and District to inspect said improvements.

(g) Chino agrees to provide, upon request of the Chief Engineer, reasonable assistance against any discharger that violates the Districts Wastewater Ordinance. District shall provide all technical support for said proceedings.

(h) Pomona shall not permit any new sewer connections from parcels adjoining the Development unless otherwise approved by the Chief Engineer; City Engineer, Pomona; and City Engineer, Chino.



### 3. CHARGES

The charges by each of the government entities participating in the Agreement and the basis, therefor, are as listed on the following summary:

| <u>Agency</u>                     | <u>Charge</u>             | <u>Basis of Charge</u>                               |
|-----------------------------------|---------------------------|--|
| Pomona                            | Sewer Service Charges     | 200% of normal service charge                        |
| Pomona                            | Connection charge         | Frontage footage of parcel and acreage per ordinance |
| Pomona                            | Plan Check Fees           | Percentage of construction costs                     |
| Pomona                            | Inspection Fees           | Percentage of construction costs                     |
| County Sanitation District No. 21 | Equivalent Annexation Fee | Discharge  |
| County Sanitation District No. 21 | Connection Fee            | Discharge  |
| County Sanitation District No. 21 | User Service Charge       | Discharge  |

Other charges may occur as prescribed from time to time by the various agencies participating in this agreement.

(a) Developer has paid the equivalent annexation fee of \$644.19 and a connection fee of \$10,515.88 to the District for the parcel in Chino as shown on Exhibit B.

(b) Developer agrees on behalf of itself and any subsequent owner of the parcel or any portion thereof, to pay the District an annual fee to cover the costs of conveyance, treatment, and disposal of the wastewater. The costs for such conveyance, treatment, and disposal shall be determined annually in accordance with Sections 409 and 410 of the Wastewater Ordinance, except that the surcharge rate shall be calculated without providing an offset credit for ad valorem taxes or any other fees or charges paid to the District by persons within the District but not similarly paid to the District by Developer.

(c) District shall invoice Developer for the aforesaid annual charge on December 1, of that fiscal year. Said invoice shall be paid to District within thirty (30) days.

(d) Developer agrees to pay to District any abnormal costs which are directly attributable to discharges originating from the parcel. Abnormal costs shall be any costs incurred by District which arise out of neglect or misconduct

by dischargers within the parcel boundaries or which occur as a consequence of a violation of the District's Wastewater Ordinance.

(e) Pomona shall invoice Developer for service charges for users in Chino which shall be 200% of the service charges described in Section 27-17 of the Pomona City Code. Said charges shall include all charges for the operation and maintenance of said system by Pomona. Sewer connection fees shall be equal to fees levied on like landowners within Pomona's boundaries. Failure to pay fees within 60 days of notification shall entitle Pomona to terminate this Agreement under the conditions specified in 4(b) below.

(f) Pomona shall be entitled to collect reasonable attorney fees should litigation be necessary to collect such connection and service charges.

#### 4. TERM

(a) This Agreement shall become effective upon the date hereinabove written, shall continue in effect for fifty (50) years, and shall not be terminated except as hereinafter provided or upon mutual consent of the parties hereto.

(b) Upon termination of this Agreement, Developer at its sole expense and risk shall immediately, and without further notice by City of Pomona or District, remove the sewer connections referred to in this Agreement and shall restore Pomona's sewer to its original condition as it existed prior to making the connection. All of such work shall be subject to the approval of Pomona.

(c) Failure or default of Chino, or Developer in the performance of any of its obligations hereunder in reference to the quantity or quality of sewage discharged into the sewer connection or the charges therefore or other charges imposed pursuant to Articles 2 and 3 of this Agreement, and the continuance of such failure or default for a period of ninety (90) days after written notice thereof by City Engineer, Pomona or the Chief Engineer shall entitle City of Pomona or District to terminate this Agreement under the conditions specified in 4(b) above. In the event that Developer or Chino remedies said default within said ninety (90) days period, this contract shall be reinstated as if no default had occurred. Termination of this Agreement is the sole and exclusive remedy against the City of Chino for any and all violations of its obligation hereunder.

(d) In the event of termination of this Agreement for any reason, Developer shall at its sole expense make arrangements for and pay all costs associated with the construction of facilities and sewer lines to establish sewer connection to an approved sewer system and pay all related connection fees. Developer shall have no other remedies against the City of Chino.

#### 5. INDEMNIFICATION

(a) Pomona, Chino, and Developer agree that neither District, nor any officer, nor employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by Pomona, Chino, or Developer under or in connection with this Agreement. It is also understood and agreed that Pomona, Chino, and Developer shall fully indemnify and hold District harmless from any and all claims, demands, actions, liability, or loss which may arise from or be incurred as the result of injury or damage to persons or

property by reason of anything done by Pomona, Chino, or Developer under or in connection with this Agreement.

(b) District, Chino, and Developer agree that neither Pomona, nor any officer, nor employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by District, Chino, or Developer under or in connection with this Agreement. It is also understood and agreed that District, Chino, and Developer shall fully indemnify and hold Pomona harmless from any and all claims, demands, actions, liability or loss which may arise from or be incurred as the result of injury or damage to persons or property by reason of anything done by District, Chino, or Developer under or in connection with this Agreement.

(c) District, Pomona, and Developer agree that neither Chino, nor any officer, nor employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by District, Pomona, or Developer under or in connection with this Agreement. It is also understood and agreed that District, Pomona, and Developer shall fully indemnify and hold Chino harmless from any and all claims, demands, actions, liability, or loss which may arise from or be incurred as a result of injury or damage to persons or property by reason of anything done by District, Pomona, or Developer under or in connection with this Agreement.

(d) District, Pomona, and Chino agree that neither Developer, nor any officer, nor employee thereof shall be responsible for any damage or liability occurring by reason of anything done or omitted to be done by District, Pomona, or Chino, under or in connection with this Agreement. It is also understood and agreed that District, Pomona, and Chino shall fully indemnify and hold Developer harmless from any and all claims, demands, actions, liability, or loss which may arise from or be incurred as the result of injury or damage to persons or property by reason of anything done by District, Pomona, or Chino under or in connection with any work, authority, or jurisdiction delegated to District, Pomona, or Chino under this Agreement.

(e) As between public entities above defined, the foregoing indemnification agreement is made pursuant to Government Code Section 895.4.

## 6. GENERAL PROVISIONS

Nothing contained in this Agreement shall vest in Pomona, Chino, or Developer any ownership or other right, title, or interest in or to any of the District Facilities other than the contractual right for the parcel to discharge wastewater to District Facilities. This Agreement shall be binding upon the heirs, successors and assigns of the parties hereto.

The parties hereto hereby agree that both the benefits and the burdens created by this Agreement touch and concern the land described in Exhibit A, and delineated on Exhibit B; that this Agreement shall be and constitutes a covenant running with said land and shall be binding upon Developer, successors in interest and assigns as their interest may appear; and that this Agreement shall be recorded by District.

STATE OF CALIFORNIA    )  
                                  )    ss.  
COUNTY OF LOS ANGELES]

On this 24th day of September, 1986, before me, the undersigned, a Notary Public in and for said State, personally appeared JON BLICKENSTAFF, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed this instrument as \_\_\_\_\_ Chairperson, and LONNY DIRKS, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed this instrument as \_\_\_\_\_ Secretary of COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, and acknowledged to me that COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY executed it.

WITNESS my hand and official seal.



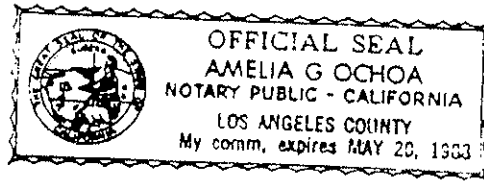
Patricia S Gjerde  
Notary Public in and for said State.

CERTIFICATE OF ADOPTION, PUBLIC CORPORATION (Section 1191, CIVIL CODE)

State of California )  
County of Los Angeles ) ss.

On this the 28th day of August, 1986, before me, Amelia G. Ochoa, the undersigned Notary Public, personally appeared E. Villeral, /x/ personally known to me (or / / proved to me on the basis of satisfactory evidence to be the person who executed this instrument as Deputy City Clerk of the City of Pomona, and acknowledged to me that the public corporation executed it.

WITNESS my hand and official seal.



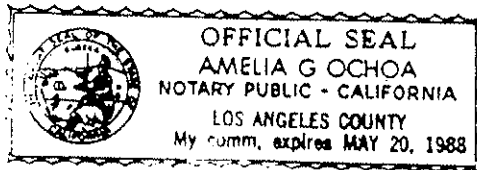
*Amelia G. Ochoa*  
Notary's signature

CERTIFICATE OF ACKNOWLEDGMENT, PUBLIC CORPORATION (SEC. 1191, CIVIL CODE)

State of California )  
                           ) ss.  
County of Los Angeles )

On this the 28th day of August, 1986, before me, Amelia G. Ochoa, the undersigned Notary Public, personally appeared Patrick J. Sampson, /x/ personally known to me (or / / proved to me on the basis of satisfactory evidence to be the person who executed this instrument as City Attorney of the City of Pomona, and acknowledged to me that the public corporation executed it.

WITNESS my hand and official seal.



Amelia G. Ochoa  
Notary's signature

CERTIFICATE OF ACKNOWLEDGMENT, PUBLIC CORPORATION (SEC. 1191, CIVIL CODE)

State of California    )  
                                  ) ss.  
County of Los Angeles )

On this the 28 day of August, 19 86, before me,  
Amelia G. Ochoa, the undersigned Notary Public, personally  
appeared G. Stanton Selby, /x/ personally known to me (or  
/ / proved to me on the basis of satisfactory evidence to be the  
person who executed this instrument as Mayor of the  
City of Pomona, and acknowledged to me that the public corporation  
executed it.

WITNESS my hand and official seal.



*Amelia G. Ochoa*  
Notary's signature

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year above set forth.

ATTEST:

[Signature]  
Secretary

COUNTY SANITATION DISTRICT NO. 21  
OF LOS ANGELES COUNTY

[Signature]  
Chairperson, Board of Directors

APPROVED AS TO FORM:

KNAPP, GROSSMAN, MARSH & JONES

By [Signature]  
District Counsel

ATTEST:

CITY OF POMONA

[Signature] DEPUTY  
City Clerk

[Signature]  
Mayor

APPROVED AS TO FORM:

[Signature]  
City Attorney

ATTEST:

CITY OF CHINO

[Signature]  
City Clerk

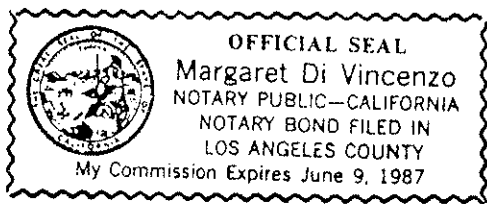
[Signature]  
Mayor  
Pro Tem

APPROVED AS TO FORM:

[Signature]  
City Attorney

"C" MCGEE ELECTRIC, INC.

[Signature]  
President



SUBSCRIBED AND SWORN TO BEFORE ME  
THIS 23 DAY OF June 1986  
[Signature]  
NOTARY PUBLIC



## EXHIBIT "A"

Beginning at the southwesterly corner of that certain parcel of land described in deed to C. McGee Electric, Incorporated, recorded in Book 9632, pages 867 and 868 of Official Records in the office of the Recorder of the County of San Bernardino, said corner being a point in the boundary of the Los Angeles and San Bernardino County line as same existed on June 18, 1985, distant northerly thereon 667.94 feet from the centerline of County Road as shown on Tract No. 4298, filed in Book 52, pages 26 and 27 of Maps in the office of the Recorder of the County of Los Angeles; thence South 89° 58' 55" East along the southerly line of said certain parcel a distance of 457.25 feet to the westerly line of the Southern Pacific Railroad right-of way; thence northerly along said right-of-way and following the same in all its various courses and curves to said Los Angeles and San Bernardino County line; thence southerly along said County line and continuing in a direct line to the point of beginning.

# EXHIBIT A

TRACT No 4298

M.B. 52, 26-27

LOS ANGELES COUNTY  
SAN BERNARDINO COUNTY

( MILLS AV )

S.P.R.R.

R/W

Q.R.D. 9632, 867-868

$S 89^{\circ} 28' 55'' E$   
457.25

AGREEMENT SITE

P.O.B.

COUNTY SANITATION DISTRICT No.  
OF LOS ANGELES COUNTY, CALIF.  
OFFICE OF CHIEF ENGINEER  
EXHIBIT "B"

667.94'

COUNTY RD.

DRAWN TED  
CHECKED \_\_\_\_\_

SCALE: 1" =

RESOLUTION NO. 86-148

A RESOLUTION OF THE COUNCIL OF THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ADOPTING THE WRITTEN REPORT OF THE CITY ENGINEER, SETTING FORTH THE CHARGES PRESCRIBED BY ORDINANCE NO. 1673, KNOWN AS THE CODE OF THE CITY OF POMONA, CALIFORNIA, ADOPTED MAY 23, 1960, FOR SERVICES AND FACILITIES FURNISHED BY THE CITY OF POMONA OUTSIDE ITS TERRITORIAL LIMITS IN CONNECTION WITH ITS SEWAGE SYSTEM AND DIRECTING THAT THE CHARGES SHALL BE ADDED TO THE ASSESSMENT ROLL AGAINST THE PARCELS AND CONSTITUTE A LIEN AGAINST THE PARCELS.

WHEREAS, on the 23rd day of May, 1960, the Council of the City of Pomona passed its Ordinance No. 1673, also known as the Code of the City of Pomona, California, prescribing fees for services and facilities furnished by the City of Pomona outside its territorial limits in connection with its sewage system and providing for the collection of fees, and providing for the property lien on the real property served and providing for the property owner served to execute a contract as provided in that ordinance before receiving service.

WHEREAS, on the 2nd day of June, 1986, the City Engineer of the City of Pomona filed a written report with the City Clerk containing a description of each parcel of real property receiving such service and facilities, and the amount of the charge for each parcel for the year as prescribed in the ordinance, the request being attached hereto and incorporated herein by reference and marked Exhibit "A".

WHEREAS, on the 2nd day of June, 1986, the Council of the City of Pomona passed its Resolution No. 86-118 acknowledging the filing of the written report of the City Engineer with the City Clerk setting forth the charges prescribed by Ordinance No. 1673, known as the Code of the City of Pomona, California, adopted May 23, 1960, for services and facilities furnished by the City of Pomona outside its territorial limits in connection with its sewage system, and setting a hearing thereon for the 30th day of June, 1986, at 8:00 p.m., and

NORTH TOWNE,  
CLAREMONT

1 directing the Clerk to give notice of the hearing as prescribed  
2 by Ordinance No. 1673; and

3 WHEREAS, on the 12th day of June, 1986,  
4 the City Clerk of the City of Pomona mailed a copy of Resolution  
5 No. 86-118 to each person to whom any parcel or parcels of  
6 real property described in the report is assessed in the last  
7 equalized assessment roll available on the date the report was  
8 filed at the address shown on the assessment roll or as known to  
9 him; and

10 WHEREAS, the Clerk of the City of Pomona caused a copy of  
11 Resolution No. 86-118 to be published on the 18th day of  
12 June, 1986, and on the 25th day of June,  
13 1986, in the Progress-Bulletin, a newspaper printed and  
14 published in the City of Pomona and circulated in the area outside  
15 the City of Pomona affected by the report.

16 NOW, THEREFORE, BE IT RESOLVED by the Council of the City of  
17 Pomona, California as follows:

18 SECTION 1. The written report of the City Engineer setting  
19 forth the charges as prescribed by Ordinance No. 1673, known as  
20 the Code of the City of Pomona, California, adopted May 23, 1960,  
21 for services and facilities furnished by the City of Pomona  
22 outside its territorial limits in connection with its sewage system,  
23 attached hereto as Exhibit "A", is hereby adopted, approved and  
24 confirmed.

25 SECTION 2. The Clerk is directed to file with the County  
26 Assessor and Tax Collector a certified copy of this resolution  
27 and the report herein adopted.

28 SECTION 3. The Clerk of the City of Pomona is hereby  
29 directed to file with the Auditor of Los Angeles County a copy  
30 of this resolution and the report herein adopted, approved and  
31 confirmed.

32 SECTION 4. The Clerk of the City of Pomona shall file said

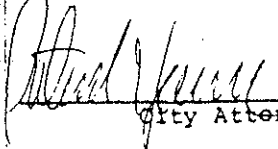
1 copies of the resolution with a statement endorsed thereon over  
2 his signature that it has been finally adopted by the Council of  
3 the City of Pomona and that the Auditor shall enter the amounts of  
4 the charges against the respective lots or parcels of land as they  
5 appear on the current assessment roll. Where such parcels are  
6 outside the boundaries of the City of Pomona, they shall be added  
7 to the assessment roll of the City of Pomona for the purpose of  
8 collecting such charges. If the property is not described on the  
9 roll, the auditor may enter the description thereon, together with  
10 the amounts of the charges, as shown on the report.

11 SECTION 5. The amount of the charges shall constitute a lien  
12 against the lot or parcel of land against which the charges have  
13 been imposed as of noon on the first Monday in March immediately  
14 preceding the date of levy. The tax collector shall include the  
15 amount of the charges on bills for taxes levied against the  
16 respective lots and parcels of land. Thereafter, the amount of  
17 the charges shall be collected at the same time and in the same  
18 manner, and by the same persons as, together with and not  
19 separately from the general taxes for the City of Pomona, as  
20 provided in Ordinance No. 1673.

21 SECTION 6. The Clerk shall certify to the passage and adop-  
22 tion of this resolution, and it shall be in immediate force and  
23 effect.

24 APPROVED AND PASSED this 30th day of June, 1986

25 ATTEST: THE CITY OF POMONA  
26  
27 JOYCE HERR By G. STANTON SELBY  
City Clerk Mayor

29 APPROVED AS TO FORM:  
30  
31   
City Attorney

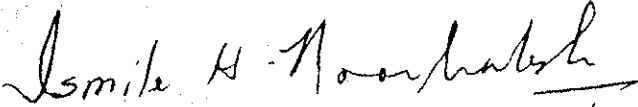
REPORT OF THE CITY ENGINEER

OF THE

CITY OF POMONA

The charges prescribed by Ordinance No 1537 entitled, "AN ORDINANCE OF THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, PRESCRIBING FEES FOR SERVICES AND FACILITIES FURNISHED BY THE CITY OF POMONA OUTSIDE ITS TERRITORIAL LIMITS IN CONNECTION WITH ITS SEWAGE SYSTEM AND PROVIDING THAT THE FEES BE A LIEN ON THE REAL PROPERTY SERVED, AND PROVIDING FOR THE PROPERTY OWNER SERVED TO EXECUTE A CONTRACT AS PROVIDED IN THE ORDINANCE BEFORE RECEIVING SERVICE," and adopted June 30, 1958, and amended by Ordinance No. 2322, adopted December 15, 1969, provides that the charges prescribed for the fiscal year 1986/1987 shall be collected on the tax roll in the same manner and by the same persons and at the same time and together with and not separately from its general taxes. The City Engineer herewith submits to the Council of the City of Pomona by filing with the City Clerk, the report of the charges as prescribed by the Ordinance. The list hereto attached contains a description of each parcel of real property receiving such services and facilities and the amount of the charge for each parcel of real property receiving such services and facilities, computed in conformity with the charges prescribed in the Ordinances.

DATED THIS 2<sup>nd</sup> day of June 1986



Ismile H. Noorbaksh, P.E.  
City Engineer/Traffic Engineer

**EXHIBIT A**

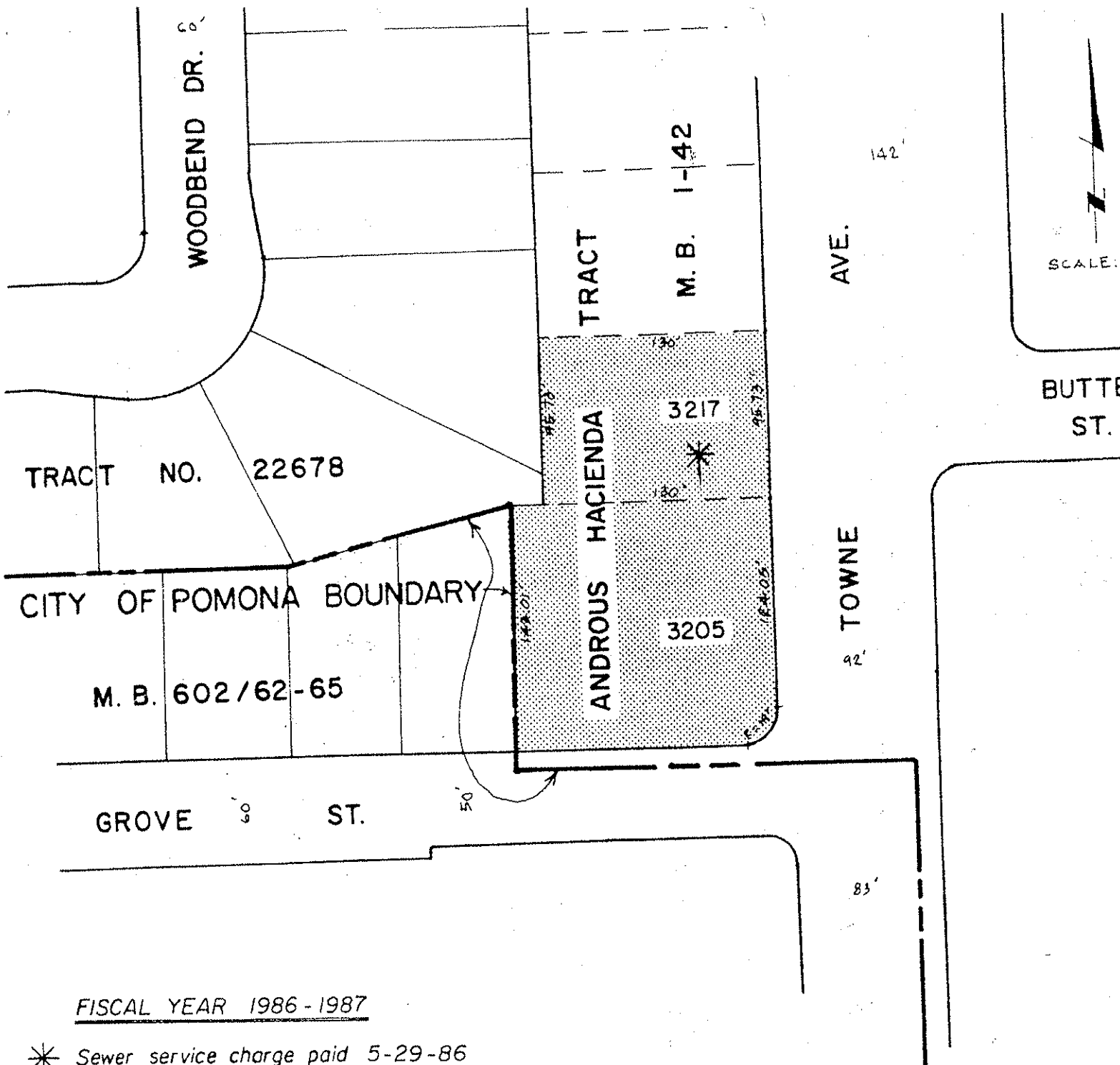
COUNTY SEWER SERVICE AGREEMENTS

ORDINANCE NO. 2322

| <u>NAME AND ADDRESS</u>  | <u>BOOK</u> | <u>PAGE</u> | <u>PARCEL</u> | <u>AMOUNT</u> |
|--|-------------|-------------|---------------|---------------|
| MOSS, Howard M.<br>3205 N. Towne Avenue<br>Claremont, CA 91711 | 8367        | 010         | 001           | \$60.00       |
| CODD, Victor<br>3217 N. Towne Avenue<br>Claremont, CA 91711    | 8367        | 010         | 002           | \$60.00*      |

\*Paid 5-29-86  
Misc. Receipt #16541

# EXHIBIT A



FISCAL YEAR 1986 - 1987

\* Sewer service charge paid 5-29-86

# EXHIBIT A



## AGREEMENT

This Agreement is made and entered into this 3rd day of March, 1986, by and between County Sanitation District No. 2 of Los Angeles County, a special district organized and existing pursuant to the County Sanitation District Act, Sections 4700, et seq. of the Health and Safety Code (hereinafter "District"), and the City of Pomona, a Municipal Corporation, (hereinafter "City").

WHEREAS, District No. 21 and City entered into an agreement for the sale from said District to City of reclaimed water produced from District's Pomona Water Reclamation Plant, said agreement being dated July 27, 1966 as amended on February 5, 1973 and December 18, 1974;

WHEREAS, District No. 21 has assigned to District all revenue it is entitled to receive pursuant to said agreement;

WHEREAS, under terms of said agreement, as amended, City has the right to purchase all reclaimed water produced by said plant which it determines it can use or sell;

WHEREAS, District on October 24, 1985, contracted with the County of Los Angeles and the trustees of the California State University on behalf of California State Polytechnic University of Pomona whereby it became obligated to make all necessary arrangements such that reclaimed water is provided for certain areas described in said agreement, and to use its best efforts to supply additional reclaimed water for the University's full campus operation;

1.5.1

1.

**RECEIVED**

MAR 13 1986

PUBLIC WORKS DEPARTMENT

WHEREAS, the proper operation and maintenance of the influent pumping plants to said plant are necessary in order to fulfill the obligation set forth above and to maximize the production of said plant;

WHEREAS, the District has a further interest in the maximization of such production both because of financial remuneration and because it will contribute to the expansion of the market for reclaimed water.

WHEREAS, it is the desire of City and District to enter into a short term agreement pursuant to which the feasibility of District operation and maintenance of these critical pumping plants will be evaluated.

NOW, THEREFORE, the District and City agree as follows:

1. Pumping Plant Maintenance and Operation.

For the term of this Agreement, District shall at its expense perform routine operation and maintenance services with respect to those pumping plants providing wastewater to the Pomona Water Reclamation Plant as particularly identified in Exhibit A hereto.

When the District staff determines that one or more of the pumping plants described in Exhibit A is in need of improvement or upgrade in order to function safely, efficiently and in a manner that does not require excessive maintenance, it will so notify City. Upon securing the consent of the City, District shall, at City's expense, provide the necessary improvement or upgrading work. At the conclusion of the work the

District will bill City for the costs thereof and the District's invoice therefore will be paid by City within forty-five days of receipt. The best estimate at this time is that said costs will not exceed \$60,000 for the term of this agreement.

City agrees to pay for all utilities necessary for the operation and maintenance of the pumping plants.

This Agreement relates only to the pumping plants described in Exhibit A hereto and in no event shall the District have any responsibility for the maintenance or operation of any of the City's force mains or of any other part of the City's sewage collection system.

City agrees to remain responsible for all expenses attributable to said plants over and above those which are considered by the District to be routine in nature. In the event that the District incurs expenses over and above those attributable to routine operation and maintenance, City agrees to reimburse the District promptly therefore.

2. Emergency.

It will continue to be the responsibility of City to respond to any emergency alarms from any of the pumping plants described in Exhibit A. City will make the initial appraisal and shall notify the District of the alarm and of the City's appraisal of the cause thereof.

3. Technical Data.

In order for the District to carry out the responsibilities assumed under this Agreement, City shall provide the District with all relevant technical data, operation manuals,

construction drawings for the pumping plant, plans showing tributary areas and development plans for the tributary areas, and such other information as the District reasonably needs in order to fulfill the responsibilities undertaken pursuant to this Agreement.

4. Indemnity.

District agrees to indemnify, defend, and hold City, its officers, agents, and employees, harmless from and against any and all liability, expense, including costs of suit and legal fees, and claims for damages of any nature whatsoever arising from or connected with the services performed by District pursuant to this Agreement, including but not limited to personal injury, death, property damage or pollution liability.

City agrees to indemnify, defend, and hold District, its officers, agents, and employees, harmless from and against any and all liability, expense, including costs of suit and legal fees, and claims for damages of any nature whatsoever arising from or connected with any obligations reserved to the City pursuant to this Agreement or otherwise arising out of the ownership, operation, or maintenance of the City's sewerage system, except as pertains to the responsibilities undertaken by District pursuant to this Agreement.

5. Term.

The term of this Agreement will be for a minimum of one year from the date hereinabove written, or until the feasibility

/

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study has been completed and its recommendations acted upon.

IN WITNESS WHEREOF, the parties have executed this Agreement on date above set forth.

ATTEST:

COUNTY SANITATION DISTRICT NO. 2  
OF LOS ANGELES COUNTY

By: Patricia S. Glade  
ASSISTANT Secretary

By: Geonice C. Swallow  
Chairperson, Board (Of Directors)

FEB 26 1986

APPROVED AS TO FORM:  
KNAPP, GROSSMAN, MARSH & JONES

By: B. Richard Marc

ATTEST:

THE CITY OF POMONA

By: David J. [Signature]  
City Clerk

By: [Signature]  
Mayor

APPROVED AS TO FORM:

By: [Signature]  
City Attorney

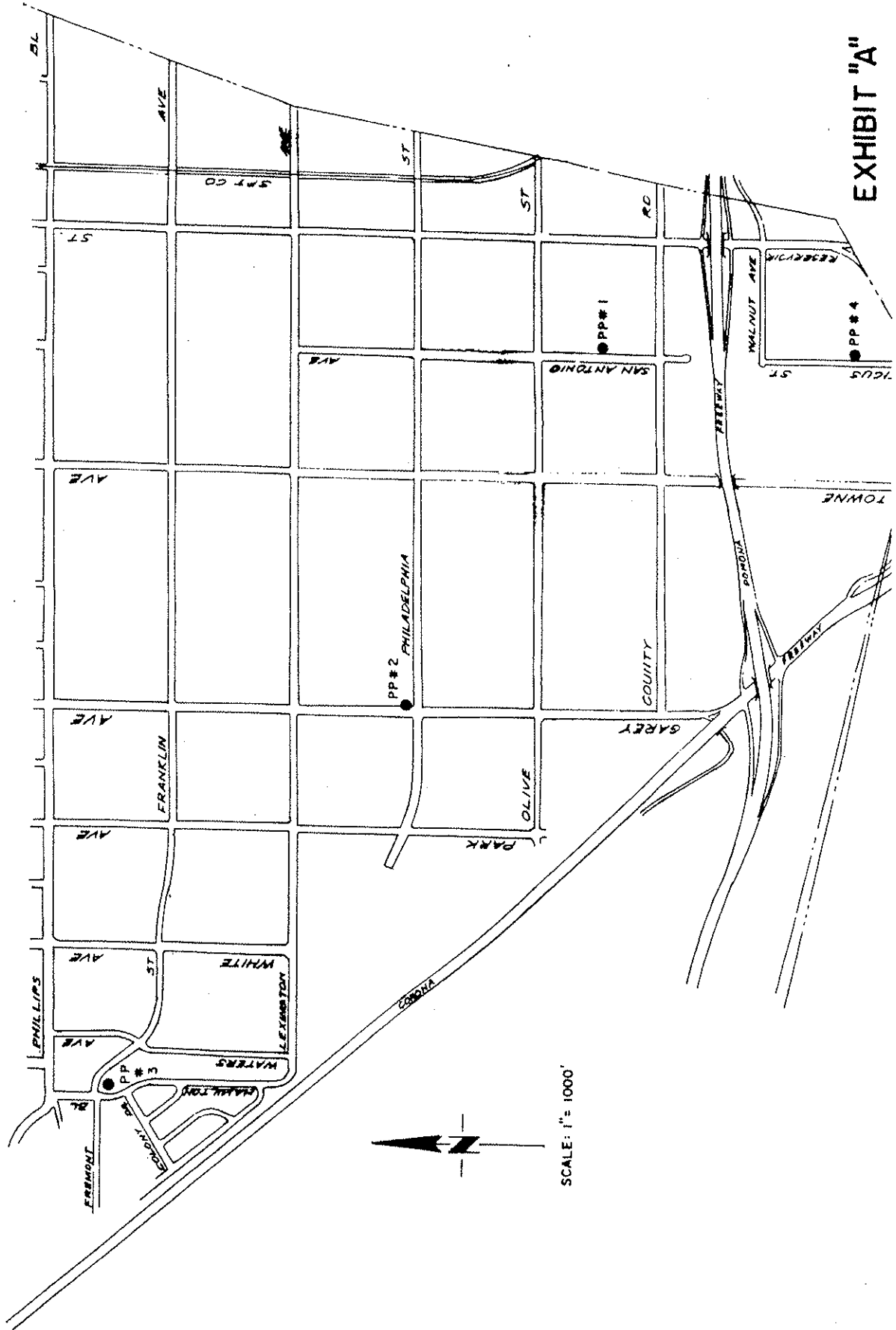


EXHIBIT "A"

SCALE: 1" = 1000'

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1.5.1

1.

**RECEIVED**

MAR 13 1986

PUBLIC WORKS DEPARTMENT

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City agrees to indemnify, defend, and hold District, its officers, agents, and employees, harmless from and against any and all liability, expense, including costs of suit and legal fees, and claims for damages of any nature whatsoever arising from or connected with any obligations reserved to the City pursuant to this Agreement or otherwise arising out of the ownership, operation, or maintenance of the City's sewerage system, except as pertains to the responsibilities undertaken by District pursuant to this Agreement.

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/

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study has been completed and its recommendations acted upon.

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ATTEST:

COUNTY SANITATION DISTRICT NO. 2  
OF LOS ANGELES COUNTY

By: Patricia S. Gude  
ASSISTANT Secretary

By: Geonice C. Swallow  
Chairperson, Board (Of Directors)

FEB 26 1986

APPROVED AS TO FORM:  
KNAPP, GROSSMAN, MARSH & JONES

By: B. Richard Marc

ATTEST:

THE CITY OF POMONA

By: David Turner  
City Clerk

By: Walter J. Kelly  
Mayor

APPROVED AS TO FORM:

By: Paul J. Smith  
City Attorney

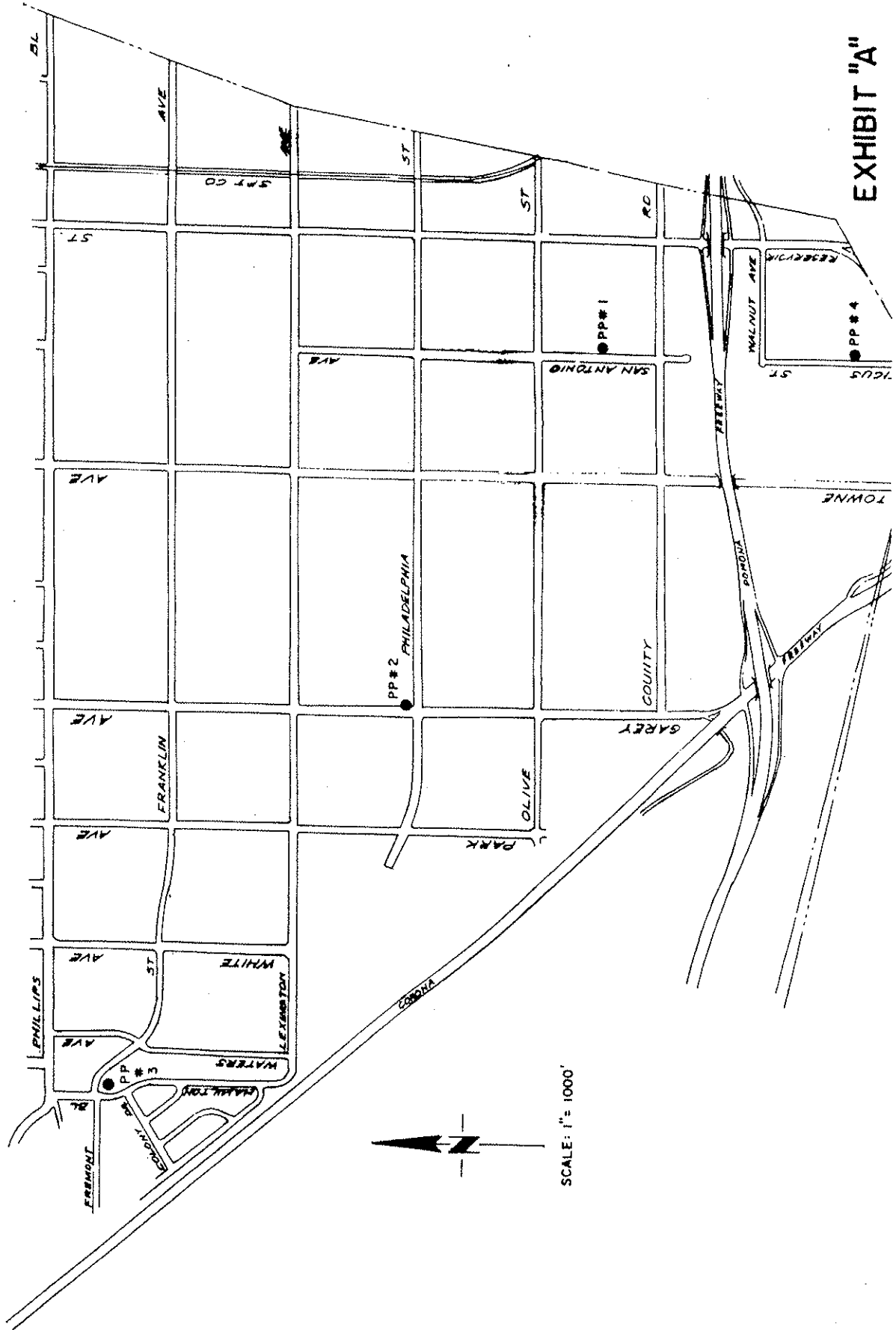
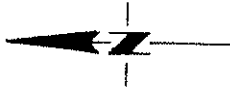


EXHIBIT "A"

SCALE: 1" = 1000'





# CITY OF POMONA COUNCIL REPORT

June 19, 2000

No. 00-68

**To:** Mayor and City Council

**Subject:** Resolution Approving Agreement with County Sanitation District No. 21 of Los Angeles County and Appropriate Additional Funds for the Sewer Trunk Main Replacement Program Phase II (Phillips Boulevard Relief Trunk Sewer -- Section 1) Project No. 579-75003 (Districts 2 and 5)

## SUMMARY

**Issue** - Should the City Council enter into an Agreement with County Sanitation District No. 21 of Los Angeles County (District) to: (1) obtain reimbursement for construction costs relating to the upsizing of the sewer line and (2) provide for the ultimate acceptance by the District of the sewer line for maintenance, operation and usage upon completion of the Sewer Trunk Main Replacement Program Phase II (Phillips Boulevard Relief Trunk Sewer -- Section 1)?

**Recommendation** - Adopt the attached Resolution approving the Agreement with County Sanitation District No. 21 of Los Angeles County. Appropriate the \$55,000 difference between what the City is receiving from the district and what was appropriated in previous years. Authorize the Mayor to sign said Agreement on behalf of the City Council.

**Fiscal Impact** - Full execution of the Agreement enables the City to receive the District's payment of \$800,000 toward the project construction costs. At the time the Fiscal Year 1999/00 and 2000/01 CIP's were drafted, it was anticipated the City would receive \$745,000, which is shown as a carryover in the Fiscal Year 1999/00 and 2000/01 CIP's. Therefore, the additional \$55,000 must be appropriated from the Sewer Fund by the City Council. Upon receipt of the \$800,000 payment from the District, the City shall deposit said funds into the Sewer Fund to partially offset project's expenditures. The remainder of the project costs is funded by Series "Q" and Gas Tax. There will be no fiscal impact to the General Fund.

**Previously Related Action** - On January 5, 1999, City Council adopted Resolution No. 99-5 approving a Mitigated Negative Declaration for the Sewer Trunk Main Replacement Program, awarding a construction contract to Kenko, Inc. in the amount of \$4,270,200 and approving a Professional Services Agreement with Berryman & Henigar, Inc. for construction engineering and inspection of the Sewer Trunk Main Replacement Program.

P

June 19, 2000

Resolution Approving Agreement with County Sanitation District No. 21 of Los Angeles County

Page 2 of 2

**MBE/DBE** – Not applicable.

**Public Noticing Requirements** – Not applicable.

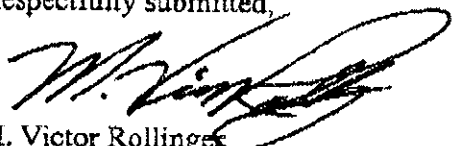
### **Background**

In April 1997, the consultant commenced the design for the Sewer Trunk Main Replacement Program – Phase II (Phillips Boulevard Relief Trunk Sewer—Section 1). During the design phase, the District expressed interest in utilizing a portion of the proposed sewer line in order to better serve the District and the drainage area. City engineering staff and District staff agreed to this concept which mutually benefits both agencies; the design phase proceeded with an increased sewer line size to accommodate the District's anticipated usage. In May 1999, Kenko, Inc. commenced with construction on the Phillips Boulevard Project and is currently approximately 85% complete. The anticipated project completion date, barring weather or other unforeseen delays, is July, 2000.

### **Discussion**

The Phillips Boulevard Relief Trunk Sewer Project entails the construction of a 42" diameter relief sewer in Phillips Boulevard from Hamilton Boulevard to Butterfield Road, crossing State Route 71 (SR71) to the west to Wright Street, then crossing westerly in Wright Street to Southview Place, then north easterly in Southview Place, across Mission Boulevard to Humane Way to a point approximately 200' northerly of Mission Boulevard. The sewer line ties in at the County Sanitation District's plant located on Humane Way. The total length of the sewer line is approximately 11,000 feet. Please refer to the attached project map labeled Exhibit "B" for a visual review of the Phillips Boulevard Relief Trunk Sewer Line.

Respectfully submitted,



M. Victor Rollinger  
Public Works Director/City Engineer

Funding Availability Verification,



Paula Chamberlain  
Finance Director

Approved by,



Severo Esquivel  
City Manager

Attachments: Attachment 1 – City Council Resolution (Including:  
Exhibit "A" – Agreement with County Sanitation District No. 21, and  
Exhibit "B" – Project Location Map

**RESOLUTION NO. \_\_\_\_\_**

**A RESOLUTION OF THE COUNCIL OF THE CITY OF POMONA, COUNTY OF LOS ANGELES, APPROVING AN AGREEMENT BETWEEN COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY, THE CITY OF POMONA AND APPROPRIATING ADDITIONAL FUNDS FOR THE PHILLIPS BOULEVARD RELIEF TRUNK SEWER LINE (SECTION 1)**

**WHEREAS**, County Sanitation District No. 21 of Los Angeles County desires to utilize a portion of the Phillips Boulevard Relief Trunk Sewer Line (Section 1);

**WHEREAS**, in order to better serve the area, the sewer line constructed must be increased in size to accommodate both agency's usage;

**WHEREAS**, County Sanitation District No. 21 of Los Angeles County is willing to pay a lump sum amount of \$800,000 in construction costs for the increase in size of the sewer line;

**WHEREAS**, upon complete construction of the Phillips Relief Trunk Sewer Line (Section 1), the City of Pomona shall timely record a Notice of Completion and Bill of Sale/Grant of Easement;

**WHEREAS**, upon acceptance and recordation of title, County Sanitation District No. 21 of Los Angeles County shall use, operate and maintain the Phillips Boulevard Relief Trunk Sewer (Section 1) as part of the District's sewerage system.

**BE IT RESOLVED** by the City of Pomona, California, as follows to wit:

**SECTION 1.** That the Mayor of the City of Pomona is hereby authorized to sign, on behalf of the City of Pomona, an Agreement between the CITY OF POMONA and COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES. A copy of this Agreement is attached hereto at Exhibit "A" and by reference made a part hereof.

**SECTION 2.** That the City Council hereby appropriates \$55,000 from the sewer funds for the Phillips Boulevard Relief Trunk Sewer Line.

**SECTION 3.** The City Clerk is directed to attest the execution of this Agreement.

**SECTION 4.** The City Clerk shall certify to the passage and adoption of this Resolution, and it shall thereupon take effect and be in force.

RECORDING REQUESTED BY:  
COUNTY SANITATION DISTRICTS  
OF LOS ANGELES COUNTY  
1855 WORKMAN MILL ROAD  
P.O. BOX 4998  
WHITTIER, CA 90607-4998

WHEN RECORDED, MAIL TO ABOVE ADDRESS  
ATTN: HABIB KHARRAT  
PLANNING & PROPERTY  
MANAGEMENT SECTION

## AGREEMENT

**THIS AGREEMENT** is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2000 by and between **COUNTY SANITATION DISTRICT NO. 21 OF LOS ANGELES COUNTY**, a body corporate and politic, hereinafter referred to as "**DISTRICT**" and the **CITY OF POMONA**, a political subdivision of the state of California, hereinafter referred to as "**CITY**";

## WITNESSETH

**WHEREAS, CITY** shall prepare or cause the preparation of the plans and specifications (specified in paragraph 7) for the construction of *Phillips Boulevard Relief Trunk Sewer, Section 1*, a new 42-inch diameter sewer (which includes the upsizing hereinafter referred), approximately 11,000 feet in length, in the vicinity of Mission Boulevard and the 71 Freeway, in the City of Pomona, as shown in Exhibit "A," hereinafter referred to as "**SEWER LINE**," in order to relieve a city sewer; and

**WHEREAS, CITY**, at **DISTRICT's** request, agrees to upsize the **SEWER LINE** in order to better serve **DISTRICT**; and

**WHEREAS, DISTRICT** is willing to contribute, and **CITY** is willing to accept, a fixed sum of \$800,000 for the construction cost of the **SEWER LINE** attributable to the upsizing; and

**WHEREAS, CITY** will cause the construction of the **SEWER LINE**, set forth in Drawing No. 21-p-76, as part of the **CITY's** construction contract. The said drawing will bear the signatures of representatives of **DISTRICT** and **CITY**, respectively, and will be on file at the **CITY** and **DISTRICT's** Joint Administration Office; and

**WHEREAS, DISTRICT** owns and maintains sewer line sections known as First Street Trunk Sewer System, Connections 1 and 2 located between **CITY** owned sewers; and

**WHEREAS, CITY** desires to acquire and **DISTRICT** desires to divest itself of such sections of sewer line.



6. **DISTRICT'S** deposit, together with interest at 7% per annum from date of deposit, shall be returned to **DISTRICT** and the Agreement canceled, except for paragraph 1, in the event that construction of the **SEWER LINE** is not complete within 18 months of **DISTRICT** execution of this Agreement.
7. **CITY** or its agents shall prepare and submit for prior approval of the **DISTRICT'S** Chief Engineer and General Manager detailed Engineering Plans and Special provisions prepared at **CITY'S** expense for the construction of the **SEWER LINE**.
8. **CITY** shall prepare the necessary environmental documents, for the **SEWER LINE** at no cost to **DISTRICT**.
9. **CITY** and its construction contractor shall secure all permits, consents, and easements necessary for the construction of the **SEWER LINE**.
10. Upon completion of construction, **CITY** shall tender a conveyance to **DISTRICT**, free and clear of any claims, liens or encumbrances, title to the **SEWER LINE**.
11. **DISTRICT** shall accept a tender of conveyance of title of the **SEWER LINE** and pay the balance of the fixed sum provided in paragraph 2, if **DISTRICT** determines to its reasonable satisfaction that **CITY** has satisfied all conditions of this Agreement. Compliance shall be in part determined by **DISTRICT'S** construction inspector. **DISTRICT'S** construction inspector shall, at the expense of **DISTRICT**, observe pipe subbedding, pipe bedding, pipe laying, pipe testing, manhole shaft manufacture and manhole construction, and junction structure modification only. Written approval by the **DISTRICT'S** construction inspector of the **DISTRICT'S** observed activities shall be required as a condition for acceptance of the **SEWER LINE**. All other activities such as trenching, consolidation of backfill, paving and street work installed by or on behalf of **CITY** shall be done in accordance with **CITY** requirements and inspection related to these activities shall be the responsibility of **CITY**. If **DISTRICT** reasonably refuses to accept the tender of conveyance of title, **CITY** shall return to **DISTRICT** the deposit as provided in paragraph 4 together with interest at 7% per annum.
12. **CITY** shall cause **DISTRICT** to be named as an additional insured on the policy of liability insurance, as provided for in Section 7-3 of the **DISTRICT'S** Amendments to the *Standard Specifications for Public Works Construction*, and furnish **DISTRICT** with a copy of that policy.

17. Upon acceptance and recordation of title, **DISTRICT** shall use, operate and maintain the **SEWER LINE** as part of the **DISTRICT's** sewerage system, in addition to providing relief capacity for the **SEWER LINE** when **DISTRICT's** and **CITY's** flows reach the **SEWER LINE's** capacity.
18. **CITY** is responsible for all losses, and liabilities and will hold **DISTRICT**, its officers, agents and employees free and harmless from all claims, demands, and costs and assume the defense of all actions arising from or in any way associated with the following:
  - (a) Ownership, operation, and maintenance of the **SEWER LINE** prior to its acceptance by the **DISTRICT**;
  - (b) Construction of the **SEWER LINE**, including but not limited to trenching, backfill work and pavement work; such liability and indemnification shall exist so long as the **SEWER LINE** is in existence and owned and operated by **DISTRICT** or its assignee.
19. **DISTRICT** agrees to hold **CITY** and its officers, agents, and employees harmless from all claims, demands, and costs and assume the defense of all actions for any damages or injuries arising out of the use, ownership, operation, or maintenance of the **SEWER LINE** subsequent to the date of acceptance by **DISTRICT**. **CITY** shall remain liable for claims, demands, and costs arising from construction of the **SEWER LINE** as provided in paragraph 18.
20. **DISTRICT's** Chief Engineer and General Manager is authorized to accept **SEWER LINE** on behalf of **DISTRICT**; authorize payment to **CITY**; and execute and deliver such additional agreements as may be necessary to effectuate the purposes of this Agreement.
21. The parties hereto shall do such additional acts as may be deemed necessary by **DISTRICT's** Chief Engineer and General Manager to carry out the purposes of this Agreement.
22. This contract contains the entire agreement between the parties concerning the rights and obligations assumed in this contract. Any oral representations or modifications shall be of no force or effect, except for a subsequent modification in writing.
23. **CITY** designates William Stracker, of Berryman & Henigar, whose address is 2001 East First Street, Santa Ana, CA 92705 and telephone number is (714) 568-7300, to be its project manager. Notices and communications for **CITY** may be delivered to Project Manager. Any change is to be by prior written notification to **DISTRICT**.

# SEWER TRUNK MAIN REPLACEMENT PROGRAM PHASE II

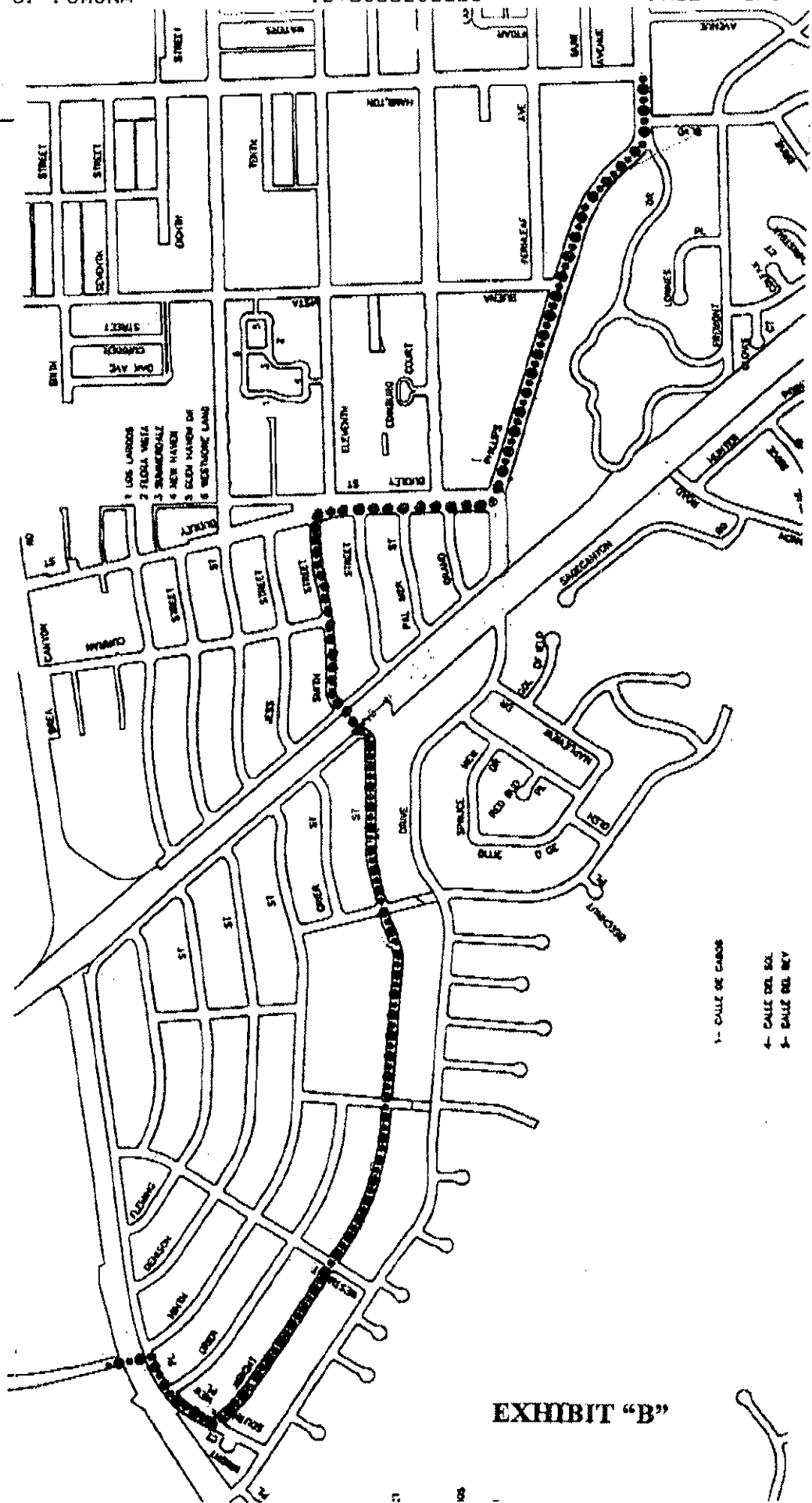


EXHIBIT "B"

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RESOLUTION NO. 82-139

A RESOLUTION OF THE COUNCIL OF THE CITY OF POMONA, COUNTY OF  
LOS ANGELES, STATE OF CALIFORNIA, AUTHORIZING THE MAYOR TO SIGN  
ON BEHALF OF THE CITY OF POMONA, AN AGREEMENT BETWEEN THE CITY  
OF POMONA AND COUNTY OF LOS ANGELES

DATED May 3, 1982.

BE IT RESOLVED by the Council of the City of Pomona, California, as follows:

SECTION 1. The Mayor of the City of Pomona is hereby authorized to sign, on behalf of the City of Pomona, an agreement between the CITY OF POMONA and COUNTY OF LOS ANGELES, dated May 3, 1982. A copy of this agreement is attached hereto, marked EXHIBIT A, and by reference made a part hereof.

SECTION 2. The City Clerk is directed to attest the execution of this agreement.

SECTION 3. The Clerk shall certify to the passage and adoption of this resolution, and it shall thereupon take effect and be in force.

APPROVED AND PASSED this 3rd day of May, 1982.

ATTEST:

THE CITY OF POMONA

City Clerk

By   
Mayor

APPROVED AS TO FORM:

City Attorney

43323

A G R E E M E N T

THIS AGREEMENT, made and entered into as of the ~~3rd~~ day of ~~May~~, 19~~62~~, by and between CITY OF POMONA, a municipal corporation, State of California, hereinafter called "City"; and

The Board of Supervisors of the County of Los Angeles, State of California, acting as the Governing Body of the Consolidated Sewer Maintenance District and Foxpark Drive Zone of that District, hereinafter called "Maintenance District";

R E C I T A L S

1. Maintenance District will operate and maintain a sewerage system, within the area shown on Exhibit "A" and called Foxpark Drive Zone, which requires an outlet to dispose of the sewage generated within its boundaries; and

2. City now owns and operates a sewage system for the conveyance of sewage generated within its territorial boundaries; and

3. City's sewage system is of a size and capacity to serve the needs of the City as well as the sewage generated within the boundaries of the Maintenance District which lies outside of said City, and the excess capacity of said City sewerage system over and above the needs of the City may be used for the conveyance of sewage originating from the said Maintenance District without interfering with its use by City; and

4. Maintenance District will annex the area shown on Exhibit A to the Consolidated Sewer Maintenance District as Foxpark Drive Zone.

5. It will be of mutual benefit to each of the parties to this agreement to discharge sewage from said Maintenance District through the City sewerage system.

NOW, THEREFORE, in consideration of the mutual promises and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

1. City agrees that Maintenance District may connect its sewers to and discharge sewage through the City's sewerage system. Any sewers for the discharge of sewage from the Maintenance District shall be constructed in accordance with plans and specifications approved by the City Engineer of the City, and shall be maintained at all times to the satisfaction of said City Engineer.

2. Maintenance District shall pay City annually, for the fiscal year ending June 30, 1982, a service charge of \$60.00 per lot then connected to the Maintenance District sewer, except that for the first fiscal year, the Maintenance District shall pay to the City a lump sum of <sup>13</sup> \$800.00 in lieu of the service charge. The first year's payment shall be made within sixty (60) days from the effective date of this agreement. All payments thereafter shall be made within sixty (60) days after June 30 of each year.

3. It is agreed, for the purpose of computing service charges referred to in paragraph 2, that lots connected to Maintenance District sewer prior to December 31 of any fiscal year shall be considered connected for the full fiscal year, and that lots connected to Maintenance District Sewer on or after January 1 of any fiscal year shall be considered connected as of the beginning of the subsequent fiscal year.

4. It is agreed that City may revise its service charge for any fiscal year following the initial fiscal year of this agreement by written notice given to Maintenance District not later than seven (7) months prior to the end of the current fiscal year within which such notice is given.

Such revision of the service charges shall be computed upon the difference in the cost of maintenance of City's sewer system at the time of such revision as compared to such maintenance costs at the time of execution of this agreement and also a proportionate share of any sewer construction by City benefiting Maintenance District properties to be included in monthly charges and collected over a reasonable period of years. A reasonable decision of the City Council of "City" shall be final and conclusive with regard to any such revision.

5. It is further understood and agreed that under the terms of this agreement neither party to this agreement shall acquire any right, title or interest in the sewerage system of the other party other than the right to convey sewage therein, in accordance with the terms and conditions of this

agreement and during the continuance thereof.

6. This agreement shall take effect as of the date of execution of all parties to this agreement.

7. It is expressly understood that this agreement shall only apply to sewage emanating from within the area shown on Exhibit "A".

8. Maintenance District shall be responsible for all costs and expenses in connecting with said sewage system of City, and upon any termination of this agreement shall remove any such connection at the expense of Maintenance District in such fashion that City's line at the point or points of connection shall be left in the same condition as before. Any such connection shall likewise be subject to the approval of the City Engineer of City, and shall be maintained to their satisfaction in the same manner as provided for the sewer lines in paragraph 1 above.

IN WITNESS WHEREOF, the Board of Supervisors of Los Angeles County caused this agreement to be executed by its Chairman and attested to by its Clerk and the City Council of the City of Pomona caused this agreement to be executed by its Mayor and attested to by its Clerk all as of the day and year first hereinabove written.



COUNTY OF LOS ANGELES  
State of California

*Michael D. Antonovich*

Chairman, Board of Supervisors  
Board of Supervisors of the County  
of Los Angeles, as governing body  
of Sewer Maintenance District

ATTEST:

James S. Mize  
Executive Officer-Clerk  
of the Board of Supervisors

APPROVED AS TO FORM  
JOHN H. LARSON  
County Counsel

By *James D. Savala*  
Deputy

*Thelma A. Johnson*

**ADOPTED**  
BOARD OF SUPERVISORS  
COUNTY OF LOS ANGELES

-3-

**23**

DEC 28 1982

*James S. Mize*  
JAMES S. MIZE  
EXECUTIVE OFFICER

CITY OF POMONA  
Los Angeles County, State of California

*Almanzo Wright*  
Mayor

ATTEST:

By

*Donald H. ...*  
City Clerk

APPROVED AS TO FORM

*Paul James*  
CITY ATTORNEY



COUNTY IMPROVEMENT NO. 2619-M  
 FOXPARK DRIVE  
 AND OTHER RIGHTS OF WAY

DIAGRAM SHOWING THE PROPOSED SEWER IMPROVEMENT, THE EXTERIOR  
 BOUNDARIES OF THE DISTRICT TO BE BENEFITED BY SAID IMPROVEMENT AND  
 ASSESSED TO PAY THE COST AND EXPENSES THEREOF

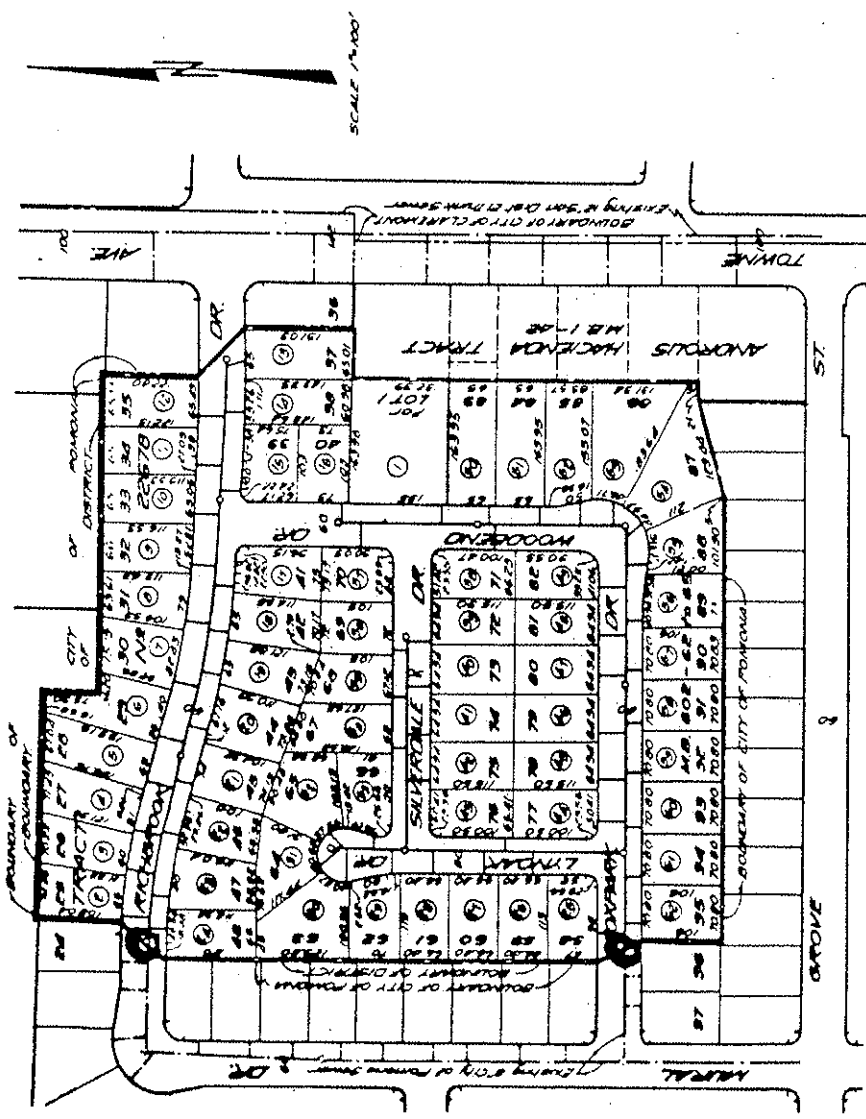
STEPHEN J MOONCE COUNTY OF LOS ANGELES, CALIFORNIA COUNTY ENGINEER

SUBMITTED BY: [Signature] APPROVED BY: [Signature] COUNTY ENGINEER

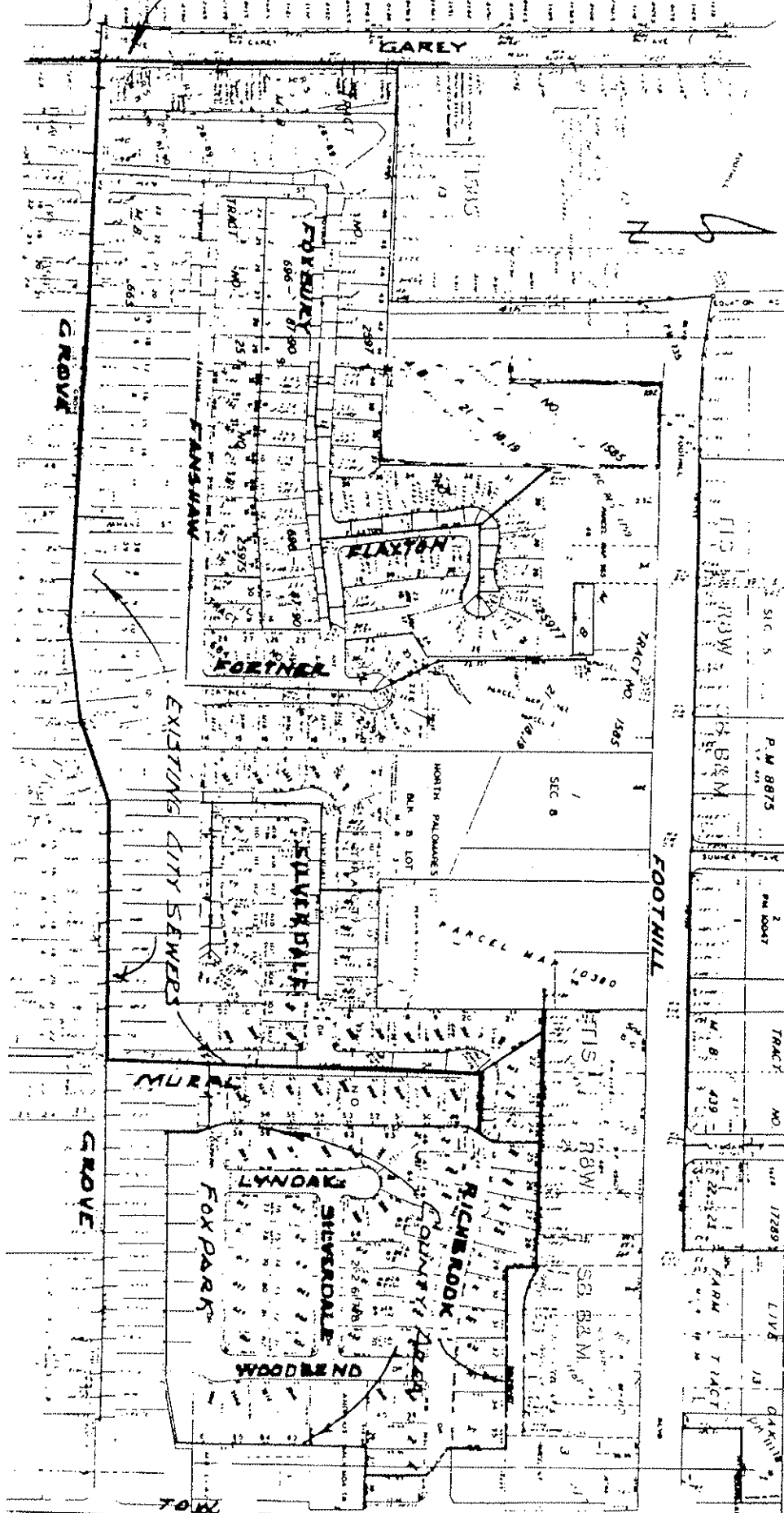
LEGEND  
 PARCEL NUMBER  
 SEWER  
 MANHOLE  
 HOUSE LATERAL

SHEET 1 OF 1 SHEET

APPROVED BY: [Signature] COUNTY ENGINEER  
 COUNTY OF LOS ANGELES, CALIFORNIA



EXISTING SANITATION DISTRICT SEWER



LOCATION MAP

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Resolution No. 57-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LA VERNE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AUTHORIZING EXECUTION OF A CONTRACT WITH THE CITY OF POMONA AND THE CITY OF CLAREMONT RELATIVE TO JOINT USE OF CERTAIN SEWER LINES OWNED SEVERALLY BY THE PARTIES TO THE CONTRACT

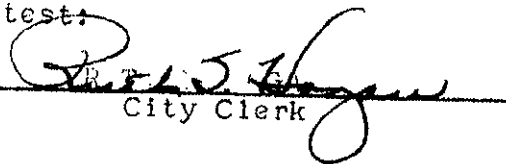
BE IT RESOLVED by the Council of the City of La Verne as follows:

Section 1. That the Mayor and City Clerk of the City of La Verne be and they are hereby authorized to execute an agreement with the City of Pomona and the City of Claremont in connection with the joint use of certain sewer lines owned severally by the parties to the contract, said Agreement being in the form attached hereto and made a part hereof by reference as though the same were set forth in full herein. Resolution No. 943 is hereby repealed.

Section 2. That the City Clerk shall certify to the adoption of this resolution and thereupon the same shall take effect and be in force.

APPROVED AND ADOPTED this 1st day of April, 1957.

Attest:

  
City Clerk

  
Mayor of the City of La Verne

I HEREBY CERTIFY that the foregoing Resolution No. 57-16 was approved and passed by the City Council of the City of La Verne at a regular meeting of said City Council held on the 1st day of April, 1957, by the following vote:

AYES: COUNCILMEN John C. Price, Walter H. Smith, J. Jack Melhorn,  
Leo A. Lomeli, Owen H. Lewis.



OFFICE OF THE CITY CLERK

CITY HALL, POMONA, CALIFORNIA

June 10, 1957

Mrs. Ruth Hogan  
City Clerk  
La Verne, California

Dear Mrs. Hogan:

Enclosed is a fully executed copy of the Agreement between Claremont, La Verne, and Pomona providing for joint use of sewer facilities.

The corrections made by the City of Claremont are acceptable to the City of Pomona and they have been initialed by the City Clerk and the City Engineer.

Sincerely yours,

L. B. THOMAS  
City Clerk

LBT:mab  
Enc.

**RECEIVED**  
JUN 11 1957

CITY OF LA VERNE

BY \_\_\_\_\_

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

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**A G R E E M E N T**

THIS AGREEMENT, made and entered into this 5th day of March 1957, by and between the CITY OF POMONA, a municipal corporation, hereinafter sometimes referred to as "POMONA", the CITY OF LA VERNE, a municipal corporation, hereinafter sometimes referred to as "LA VERNE" and the CITY OF CLAREMONT, a municipal corporation, hereinafter sometimes referred to as "CLAREMONT";

**R E C I T A L S**

That Pomona, LaVerne and Claremont are municipal corporations, situated in the State of California, and that each of the parties are municipal corporations under and by virtue of the laws of the State of California.

That the boundaries of the Cities are such that portions of LaVerne and portions of Claremont are contiguous with the City of Pomona.

That each of the parties belong to County Sanitation District No. 21, the District having heretofore been organized for the purpose of disposing of sewage of the members thereof.

That in the interest of the public health and welfare and in the interest of economy, engineering and efficient planning, it will be to the advantage of each of the parties to provide for the joint use of certain sewer lines now owned severally by the parties.

**W I T N E S S E T H**

NOW, THEREFORE, in consideration of the mutual advantage which will inure to the benefit of Pomona, LaVerne and Claremont, it is hereby agreed as follows:

**I**

That the parties hereto, by these presents, do hereby designate and constitute the respective duly appointed and acting City Engineer of Pomona, the City Manager of LaVerne and the City Engineer of Claremont as an administrative agency to administer the executory provisions of this joint powers agreement.

**II**

1 lines, trunk lines and lateral facilities under the jurisdiction and control  
2 of any of the other parties.

3  
4 III

5 Before any such connection and utilization is made, the member of the  
6 administrative agency from the party desiring to make such connection shall first  
7 serve written notice on the member of the administrative agency from the party  
8 whose lines will be connected to and utilized, and at the same time shall  
9 furnish such maps and other engineering data as may be necessary, requested  
10 or convenient for the purposes of the party affected thereby. Provided further,  
11 that no such connection shall be made until the member of the administrative  
12 agency from the affected party shall have consented thereto.

13 person *C.G.J. m.a.s.* *OK IV*  
14 The ~~party~~ proposing to connect to and utilize the facilities of another  
15 party shall assume and pay all costs and expenses ~~thereof~~ of the connection. *C.G.J.*  
16 *m.a.s.* *OK* *OK*

17 V

18 In the event any of the contracting parties have in force and effect, or  
19 shall hereafter place in force and effect, any ordinance or law providing for  
20 the payment of sewer connection charges by the person or persons benefited  
21 thereby they shall be paid directly by said person or persons connecting  
22 from the adjoining city; the adjoining city agrees not to issue any building  
23 permit until it has been ascertained that the person or persons connecting  
24 have paid all sewer connection charges. Where connection to any line or  
25 facility shall cause the capacity of that line or facility to be exceeded it  
26 shall be incumbent upon the party who owns said line to assume all costs and  
27 expense in connection with increasing the capacity of such line and facility.

28 VI

The City of La Verne and the City of Pomona do separately affirm and agree that no ~~subsections~~ within the purview of this agreement shall be made.

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

3.6.71  
3.11.1

1 hereto and its Mayor to sign this Agreement by its Resolution No. 57-16,  
2 and the City of Claremont has caused its corporate name to be affixed hereto  
3 and its Mayor to sign this Agreement by its Resolution No. 1678, on the  
4 day and year first above written.

5 ATTEST:

THE CITY OF POMONA, a Municipal Corp.

6 [Signature]  
7 City Clerk

by [Signature]  
Mayor

8 APPROVED AS TO FORM this 5th day of  
9 March

10 [Signature], 1957.  
11 City of Pomona CITY ATTORNEY

12 ATTEST:

THE CITY OF LA VERNE, a Municipal Corp.

13 [Signature]  
14 City Clerk

by [Signature]  
Mayor

15 APPROVED AS TO FORM this 4th day of  
16 April, 1957.

17 [Signature]  
18 City of LaVerne, CITY ATTORNEY

19 ATTEST:

THE CITY OF CLAREMONT, a Municipal Corp.

20 [Signature]  
21 City Clerk

by [Signature]  
Mayor

22 APPROVED AS TO FORM this 14th day of  
23 May, 1957.

24 [Signature]  
25 City of Claremont, CITY ATTORNEY

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

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RESOLUTION NO. 1678

1 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLAREMONT, COUNTY OF LOS  
2 ANGELES, STATE OF CALIFORNIA, APPROVING AN AGREEMENT WITH THE CITIES OF  
3 POMONA, LA VERNE AND CLAREMONT, PROVIDING FOR JOINT USE OF SEWER FACILITIES.

4 Whereas the City Council of the City of Claremont has determined that it  
5 is for the best interest of the City of Claremont to enter into an agreement  
6 with the Cities of Pomona and La Verne for the joint use of certain sewer  
7 facilities where such joint use would be economical and constitute proper  
8 planning and efficient engineering, and

9 Whereas said agreement provides that the sewer service charges shall be  
10 paid to the city which owns the sewer line to which the connection is made,

11 Now therefore, the City Council of the City of Claremont, County of Los  
12 Angeles, State of California, does resolve as follows:

13 Section 1. That that certain agreement, a copy of which is attached  
14 hereto and by this reference made a part hereof, by and between the Cities  
15 of Claremont, Pomona and La Verne, is hereby approved.

16 Section 2. The Mayor and the City Clerk shall sign said agreement on  
17 behalf of the City of Claremont.

18 Section 3. The Mayor shall sign this resolution and the City Clerk shall  
19 attest and certify to the passage and adoption thereof.

20 Passed, approved and adopted this 22nd day of April, 1957.

21 *Chester G. Jaeger*  
22 Mayor of the City of Claremont

23 ATTEST:

24 *Margaret J. Drinker*  
25 City Clerk of the City of Claremont

26 APPROVED AS TO FORM:

27 *William S. Bergman, Jr.*  
28 City Attorney of the City of Claremont  
29  
30



1 STATE OF CALIFORNIA  
2 COUNTY OF LOS ANGELES } ss.  
3 CITY OF CLAREMONT

4 I, MARGARET F. DRINKER, City Clerk of the City of Claremont, County of Los Angeles, State  
5 of California, hereby certify that the foregoing Resolution No. 1678 was regularly adopted by  
6 the City Council of said City of Claremont at a \_\_\_\_\_ regular meeting of said Council  
7 held on the 22<sup>nd</sup> day of April, 1957, by the following vote:

8 AYES: Councilmen Jaeger, Shaw, Kraus, Mesick & Lyerson  
9 NOES: Councilmen None  
10 ABSENT: Councilmen None

11 Margaret J. Drinker  
12 City Clerk of the City of Claremont

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1 Resolution No. 57-16

2 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF  
3 LA VERNE, COUNTY OF LOS ANGELES, STATE OF CALI-  
4 FORNIA, AUTHORIZING EXECUTION OF A CONTRACT WITH  
5 THE CITY OF POMONA AND THE CITY OF CLAREMONT  
6 RELATIVE TO JOINT USE OF CERTAIN SEWER LINES OWNED  
7 SEVERALLY BY THE PARTIES TO THE CONTRACT

8 BE IT RESOLVED by the Council of the City of La Verne as  
9 follows:

10 Section 1. That the Mayor and City Clerk of the City of  
11 La Verne be and they are hereby authorized to execute an agreement  
12 with the City of Pomona and the City of Claremont in connection with  
13 the joint use of certain sewer lines owned severally by the parties  
14 to the contract, said Agreement being in the form attached hereto  
15 and made a part hereof by reference as though the same were set  
16 forth in full herein. Resolution No. 943 is hereby repealed.

17 Section 2. That the City Clerk shall certify to the adoption  
18 of this resolution and thereupon the same shall take effect and be in  
19 force.

20 APPROVED AND ADOPTED this 1st day of April, 1957.

21 Attest:

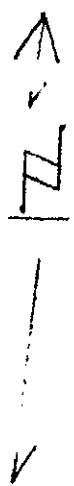
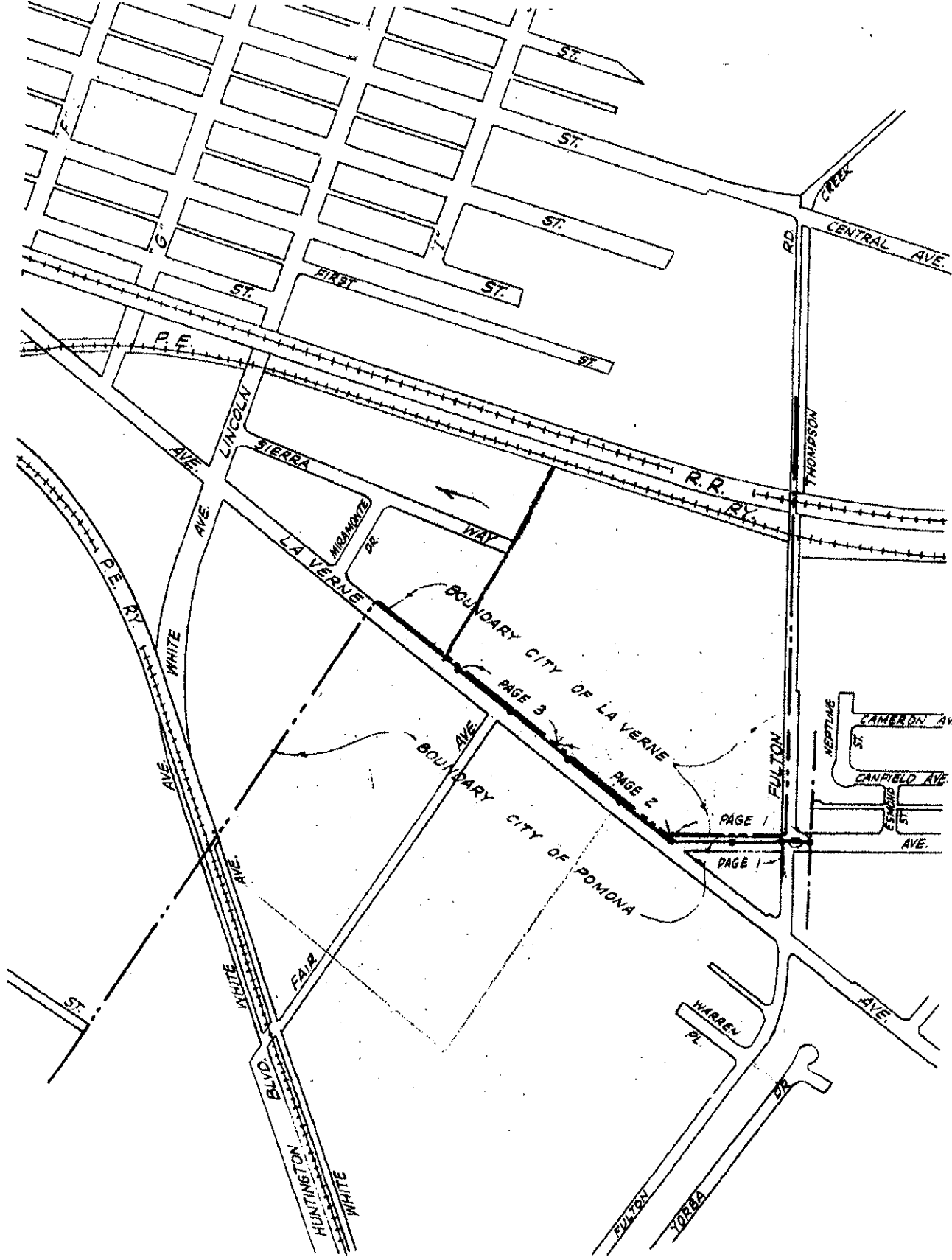
22 OWEN H. LEWIS  
23 Mayor of the City of La Verne

24 RUTH S. HOGAN  
25 City Clerk

26 I HEREBY CERTIFY that the foregoing Resolution No. 57-16 was  
27 approved and passed by the City Council of the City of La Verne at a  
28 regular meeting of said City Council held on the 1st day of April,  
1957, by the following vote:

AYES: COUNCILMEN John C. Price, Walter H. Smith, J. Jack Melhorn,

Leo A. Loneli, Owen H. Lewis.



STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES } ss.  
CITY OF POMONA

I, the undersigned, City Clerk of the City of Pomona, DO HEREBY CERTIFY that the above and foregoing is a full, true and correct copy of Resolution 4761

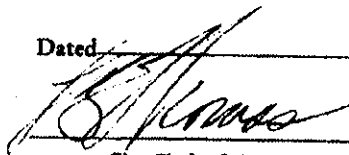
and that same has not been amended or repealed.

(SEAL)

3-18

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Dated \_\_\_\_\_, 19\_\_\_\_



City Clerk of the City of Pomona, California

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I hereby certify that the foregoing Resolution was passed and adopted by the City Council of the City of Pomona, and signed by the Mayor of said City at a \_\_\_\_\_ regular meeting of said Council held on the 5th day of March 2, 195<sup>7</sup>, by the following vote, to-wit:

|         |            |  |
|---------|------------|--|
| AYES:   | Councilmen | <u>Baker, Collins, Hoover, Turney, (Mayor) Cox</u> |
| "       | "          | _____  |
| NOES:   | "          | <u>none</u>  |
| ABSENT: | "          | <u>none</u>  |

L. B. Thomas  
City Clerk

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

1 STATE OF CALIFORNIA  
2 COUNTY OF LOS ANGELES } ss.  
3 CITY OF CLAREMONT

4 I, MARGARET F. DRINKER, City Clerk of the City of Claremont, County of Los Angeles, State  
5 of California, hereby certify that the foregoing Resolution No. 1678 was regularly adopted by  
6 the City Council of said City of Claremont at a \_\_\_\_\_ regular meeting of said Council  
7 held on the 22<sup>nd</sup> day of April, 1957, by the following vote:

8 AYES: Councilmen Jaeger, Shaw, Kraus, Meick & Lyerson  
9 NOES: Councilmen None  
10 ABSENT: Councilmen None

11 Margaret F. Drinker  
12 City Clerk of the City of Claremont

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1 Resolution No. 57-16

2 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF  
3 LA VERNE, COUNTY OF LOS ANGELES, STATE OF CALI-  
4 FORNIA, AUTHORIZING EXECUTION OF A CONTRACT WITH  
5 THE CITY OF POMONA AND THE CITY OF CLAREMONT  
6 RELATIVE TO JOINT USE OF CERTAIN SEWER LINES OWNED  
7 SEVERALLY BY THE PARTIES TO THE CONTRACT

8 BE IT RESOLVED by the Council of the City of La Verne as  
9 follows:

10 Section 1. That the Mayor and City Clerk of the City of  
11 La Verne be and they are hereby authorized to execute an agreement  
12 with the City of Pomona and the City of Claremont in connection with  
13 the joint use of certain sewer lines owned severally by the parties  
14 to the contract, said Agreement being in the form attached hereto  
15 and made a part hereof by reference as though the same were set  
16 forth in full herein. Resolution No. 943 is hereby repealed.

17 Section 2. That the City Clerk shall certify to the adoption  
18 of this resolution and thereupon the same shall take effect and be in  
19 force.

20 APPROVED AND ADOPTED this 1st day of April, 1957.

21 Attest:

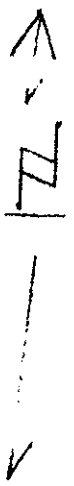
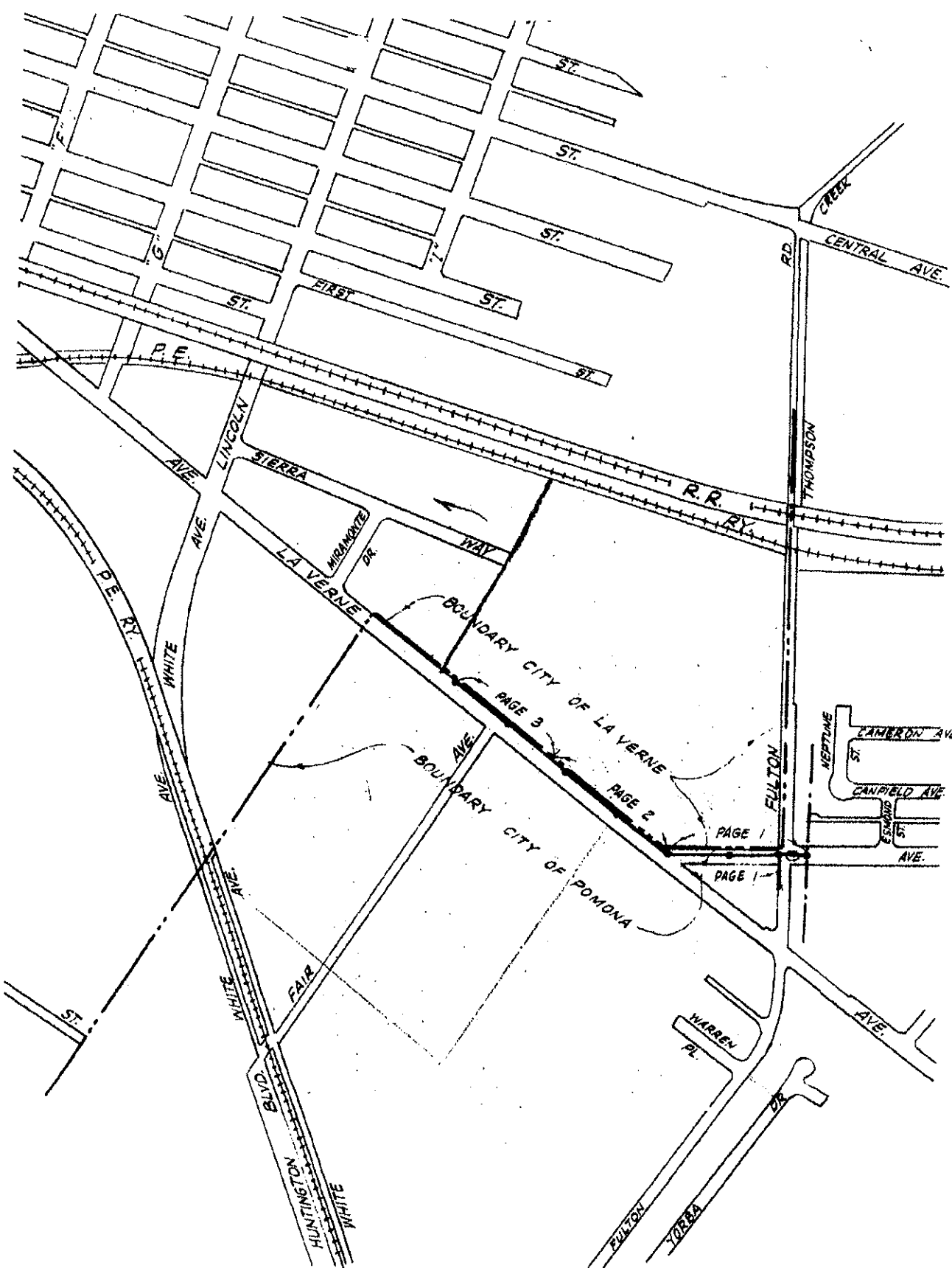
22 OWEN H. LEWIS  
23 Mayor of the City of La Verne

24 RUTH S. HOGAN  
25 City Clerk

26 I HEREBY CERTIFY that the foregoing Resolution No. 57-16 was  
27 approved and passed by the City Council of the City of La Verne at a  
28 regular meeting of said City Council held on the 1st day of April,  
1957, by the following vote:

AYES: COUNCILMEN John C. Price, Walter H. Smith, J. Jack Melhorn,

Leo A. Lowali, Owen H. Lewis.





STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES } ss.  
CITY OF POMONA

I, the undersigned, City Clerk of the City of Pomona, DO HEREBY CERTIFY that the above and foregoing is a full, true and correct copy of Resolution 4761

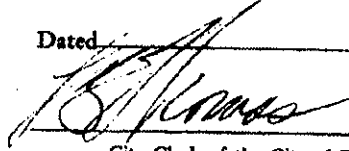
and that same has not been amended or repealed.

(SEAL)

3-18

57

Dated \_\_\_\_\_, 19\_\_\_\_



City Clerk of the City of Pomona, California

*seru chg*

November 13, 1962

Mr. E. M. Hendrix  
4266 Jasmine Avenue  
Culver City, California

Dear Mr. Hendrix:

Recently you wrote us a letter asking for waiver of the sewer maintenance charges billed the Copacabana Trailer Park at 2717 Arrow Highway. As I indicated to you I wished to investigate the circumstances surrounding this matter before replying. I now have completed my investigation and have this to report. First, the sewer to which you are connected is a City of La Verne sewer installed in 1958 by Vella Construction Company and paid for by municipal bond issue. The notice of completion was recorded March 5, 1958 as Instrument No. 3158, Book 56513, Page 18 of the County Recorder's Office. Therefore, you are definitely liable for the sewer service charge. In your next water bill the balance will be carried over and you should pay the entire amount. If you have any question, please contact Mrs. Sutcliffe of our Water Office.

I have talked with the City Engineer of Pomona regarding the possibility that you were charged a sewer connection fee by the City of Pomona. If this is true then you should contact Mr. Crawford, present your receipt and request a refund of the connection charge.

Sincerely,



Allan R. Schell  
City Manager

ARS/lg

cc: Mr. Johnson  
Mrs. Sutcliffe  
Mr. Crawford

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Y

*Receivers*

November 19, 1964

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Harold L. Johnson Engineering  
841 W. Glentana Street  
Covina, California

Gentlemen:

Accompanying are two prints that should aid your party in locating and reading the flow lines of the existing sewer structures. The City of Pomona closely parallels the sewer main shown on drawing S-140 with a main of their own, their print FB-357 submitted by Marshall Pond is for Tract 22738.

The print S-140 should aid in the spacing if you start from the south. There is a MH on the south side of Arrow Highway, in addition to those shown.

Yours truly,

Lowell D. Brandt  
Director of Public Works

LDB/r1

Enc. 2

Date November 17, 1964

City of La Verne  
2061 Third Avenue  
La Verne, California

Gentlemen:

Enclosed please find two (2) prints of

Easement Map of Tract No. 30218

Please return one copy to the office of Harold L. Johnson Engineering  
841 West Glentana Street, Covina, California with existing and proposed  
utilities shown and with sizes and dimensions to center line where  
applicable. Kindly show all utilities above and below the ground and  
if underground advise approximate depth.

Thank you,

HAROLD L. JOHNSON ENGINEERING



By Harold L. Johnson, Manager

Owner:

Robert A. Olin

Resolution No. 943

A RESOLUTION OF THE CITY OF LA VERNE AUTHORIZING  
THE MAYOR AND CITY CLERK TO EXECUTE A JOINT POWERS  
AGREEMENT BETWEEN THE CITIES OF POMONA AND LA VERNE  
RE CONNECTION ONTO MAIN TRUNK SEWER LINES

BE IT RESOLVED by the City Council of the City of La Verne,  
as follows:

Section 1. That the Mayor and City Clerk of the City  
of La Verne be and they are hereby authorized to execute ~~an~~ Joint  
Powers  
/Agreement with the ~~City~~ of ~~Pomona~~ relative to the use of main  
trunk sewer facilities of both cities, said Agreement being in  
the form attached hereto and made a part hereof by reference  
as though ~~the~~ same were set forth in full herein.

Section 2. That the City Clerk shall certify to the  
adoption of this resolution and thereupon the same shall take  
effect and be in force.

Approved and adopted this ~~thirty~~ 21st day of May, 1956.

Act. Mayor of the City of La Verne

Attest:

City Clerk

**JOINT POWERS AGREEMENT BETWEEN THE CITIES OF  
POMONA AND LA VERNE RE CONNECTION ONTO MAIN  
TRUNK SEWER LINES**

THIS AGREEMENT made and entered into in duplicate this \_\_\_\_\_ day of May, 1956, by and between the CITY OF POMONA, a municipal corporation operating under a freeholder's charter under and by virtue of the laws of the State of California, referred hereinafter as "Pomona," and the CITY OF LA VERNE, a municipal corporation operating under the general laws of the State of California, referred hereinafter as "La Verne"

**W I T N E S S E T H**

WHEREAS, the northwesterly boundary of Pomona and the southeasterly boundary of La Verne are contiguous with each other and due to the slope and terrain in this area there may be instances when good planning and efficient engineering may require that property owners of Pomona use the <sup>main</sup> ~~main~~ trunk sewer facilities of La Verne and the property owners of La Verne use the <sup>sewer</sup> ~~main~~ trunk sewer facilities of Pomona, and

WHEREAS, both Pomona and La Verne belong to County Sanitation District No. 21 of Los Angeles County which was organized for the purpose of disposing of the sewage of Pomona and La Verne, and

WHEREAS, the limited additional use to the main trunk sewage facilities of either city would be most negligible and the purpose of this joint powers agreement is to enable Pomona and La Verne to use their main trunk sewer facilities to the maximum advantage of the other city as provided herein,

NOW THEREFORE, in consideration of the mutual advantages to be obtained and derived therefrom by the parties hereto, it is mutually agreed as follows:

2- The administrative agency hereby appointed for the administration of this agreement shall be the City Engineer of Pomona and the City Engineer of La Verne.

3- The administrative agency hereunder shall have the power to authorize the use of such sewage facilities under such conditions as it may approve by unanimous agreement.

1  
2 Resolution No. 57-16

3 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF  
4 LA VERNE, COUNTY OF LOS ANGELES, STATE OF CALI-  
5 FORNIA, AUTHORIZING EXECUTION OF A CONTRACT WITH  
6 THE CITY OF POMONA AND THE CITY OF CLAREMONT  
7 RELATIVE TO JOINT USE OF CERTAIN SEWER LINES OWNED  
8 SEVERALLY BY THE PARTIES TO THE CONTRACT

9 BE IT RESOLVED by the Council of the City of La Verne as  
10 follows:

11 Section 1. That the Mayor and City Clerk of the City of  
12 La Verne be and they are hereby authorized to execute an agreement  
13 with the City of Pomona and the City of Claremont in connection with  
14 the joint use of certain sewer lines owned severally by the parties  
15 to the contract, said Agreement being in the form attached hereto  
16 and made a part hereof by reference as though the same were set  
17 forth in full herein. Resolution No. 943 is hereby repealed.

18 Section 2. That the City Clerk shall certify to the adoption  
19 of this resolution and thereupon the same shall take effect and be in  
20 force.

21 APPROVED AND ADOPTED this 1st day of April, 1957.

22 Attest:

23 Richard J. Hayden  
24 City Clerk

25 Owen H. Lewis  
26 Mayor of the City of La Verne

27 I HEREBY CERTIFY that the foregoing Resolution No. 57-16 was  
28 approved and passed by the City Council of the City of La Verne at a  
regular meeting of said City Council held on the 1st day of April,  
1957, by the following vote:

AYES: COUNCILMEN John C. Price, Walter H. Smith, J. Jack Melhorn,  
Leo A. Lomeli, Owen H. Lewis.





OFFICE OF THE CITY CLERK

CITY HALL, POMONA, CALIFORNIA

June 10, 1957

Mrs. Ruth Hogan  
City Clerk  
La Verne, California

Dear Mrs. Hogan:

Enclosed is a fully executed copy of the Agreement between Claremont, La Verne, and Pomona providing for joint use of sewer facilities.

The corrections made by the City of Claremont are acceptable to the City of Pomona and they have been initialed by the City Clerk and the City Engineer.

Sincerely yours,

L. B. THOMAS  
City Clerk

LBT:mab  
Enc.

**RECEIVED**

JUN 11 1957

CITY OF LA VERNE

BY \_\_\_\_\_

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

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**A G R E E M E N T**

THIS AGREEMENT, made and entered into this 5th day of March 1957, by and between the CITY OF POMONA, a municipal corporation, hereinafter sometimes referred to as "POMONA", the CITY OF LA VERNE, a municipal corporation, hereinafter sometimes referred to as "LA VERNE" and the CITY OF CLAREMONT, a municipal corporation, hereinafter sometimes referred to as "CLAREMONT";

**RECITALS**

That Pomona, LaVerne and Claremont are municipal corporations, situated in the State of California, and that each of the parties are municipal corporations under and by virtue of the laws of the State of California.

That the boundaries of the Cities are such that portions of LaVerne and portions of Claremont are contiguous with the City of Pomona.

That each of the parties belong to County Sanitation District No. 21, the District having heretofore been organized for the purpose of disposing of sewage of the members thereof.

That in the interest of the public health and welfare and in the interest of economy, engineering and efficient planning, it will be to the advantage of each of the parties to provide for the joint use of certain sewer lines now owned severally by the parties.

**W I T N E S S E T H**

NOW, THEREFORE, in consideration of the mutual advantage which will inure to the benefit of Pomona, LaVerne and Claremont, it is hereby agreed as follows:

**I**

That the parties hereto, by these presents, do hereby designate and constitute the respective duly appointed and acting City Engineer of Pomona, the City Manager of LaVerne and the City Engineer of Claremont as an administrative agency to administer the executory provisions of this joint powers agreement.

**II**

1 lines, trunk lines and lateral facilities under the jurisdiction and control  
2 of any of the other parties.

3 III

4 Before any such connection and utilization is made, the member of the  
5 administrative agency from the party desiring to make such connection shall first  
6 serve written notice on the member of the administrative agency from the party  
7 whose lines will be connected to and utilized, and at the same time shall  
8 furnish such maps and other engineering data as may be necessary, requested  
9 or convenient for the purposes of the party affected thereby. Provided further,  
10 that no such connection shall be made until the member of the administrative  
11 agency from the affected party shall have consented thereto.

12  
13 person *c.g. J. m.a.s.* *OK* *IV*  
14 The ~~party~~ proposing to connect to and utilize the facilities of another  
15 party shall assume and pay all costs and expenses <sup>of the connection</sup> ~~thereof~~. *OK* *c.g. J.*  
16 *m.a.s.* *OK* *OK*

17 V

18 In the event any of the contracting parties have in force and effect, or  
19 shall hereafter place in force and effect, any ordinance or law providing for  
20 the payment of sewer connection charges by the person or persons benefited  
21 thereby they shall be paid directly by said person or persons connecting  
22 from the adjoining city, <sup>to the City owning the sewer</sup> *c.g. J. m.a.s.* *OK* *OK*  
23 the adjoining city agrees not to issue any building *OK* *OK*  
24 permit until it has been ascertained that the person or persons connecting  
25 have paid all sewer connection charges. Where connection to any line or  
26 facility shall cause the capacity of that line or facility to be exceeded it  
27 shall be incumbent upon the party who owns said line to assume all costs and  
28 expense in connection with increasing the capacity of such line and facility.

VI

The City of La Verne and the City of Pomona do separately affirm and  
agree that no ~~suggestions~~ <sup>within the purview of this agreement shall be made</sup>

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

187  
3/11/1

to sign this Agreement by its Resolution No. 57-16  
and the City of Claremont has caused its corporate name to be affixed hereto  
and its Mayor to sign this Agreement by its Resolution No. 1678, on the  
day and year first above written.

ATTEST:

[Signature]  
City Clerk

THE CITY OF POMONA, a Municipal Corp.  
by [Signature]  
Mayor

APPROVED AS TO FORM this 5th day of  
March, 1957.

[Signature]  
City of Pomona CITY ATTORNEY

ATTEST:

[Signature]  
City Clerk

THE CITY OF LA VERNE, a Municipal Corp.  
by [Signature]  
Mayor

APPROVED AS TO FORM this 14th day of  
[Month], 1957.

[Signature]  
City of LaVerne, CITY ATTORNEY

ATTEST:

[Signature]  
City Clerk

THE CITY OF CLAREMONT, a Municipal Corp.  
by [Signature]  
Mayor

APPROVED AS TO FORM this 14th day of  
May, 1957.

[Signature]  
City of Claremont, CITY ATTORNEY

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1 hereto and its Mayor to sign this Agreement by its Resolution No. 57-16;  
2 and the City of Claremont has caused its corporate name to be affixed hereto  
3 and its Mayor to sign this Agreement by its Resolution No. 1678, on the  
4 day and year first above written.

5 ATTEST:

THE CITY OF POMONA, a Municipal Corp.

6 [Signature]  
7 City Clerk

by [Signature]  
Mayor

8 APPROVED AS TO FORM this 5th day of  
9 March

10 [Signature], 1957.  
11 Arlo E. Rickett, Jr.  
City of Pomona CITY ATTORNEY

12 ATTEST:

THE CITY OF LA VERNE, a Municipal Corp.

13 [Signature]  
14 City Clerk

by [Signature]  
Mayor

15 APPROVED AS TO FORM this 4th day of

16 [Signature], 1957.

17 [Signature]  
18 City of LaVerne, CITY ATTORNEY

19 ATTEST:

THE CITY OF CLAREMONT, a Municipal Corp.

20 [Signature]  
21 City Clerk

by [Signature]  
Mayor

22 APPROVED AS TO FORM this 14th day of

23 [Signature], 1957.

24 [Signature]  
25 City of Claremont, CITY ATTORNEY

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

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RESOLUTION NO. 1678

1 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CLAREMONT, COUNTY OF LOS  
2 ANGELES, STATE OF CALIFORNIA, APPROVING AN AGREEMENT WITH THE CITIES OF  
3 POMONA, LA VERNE AND CLAREMONT, PROVIDING FOR JOINT USE OF SEWER FACILITIES.

4 Whereas the City Council of the City of Claremont has determined that it  
5 is for the best interest of the City of Claremont to enter into an agreement  
6 with the Cities of Pomona and La Verne for the joint use of certain sewer  
7 facilities where such joint use would be economical and constitute proper  
8 planning and efficient engineering, and

9 Whereas said agreement provides that the sewer service charges shall be  
10 paid to the city which owns the sewer line to which the connection is made,

11 Now therefore, the City Council of the City of Claremont, County of Los  
12 Angeles, State of California, does resolve as follows:

13 Section 1. That that certain agreement, a copy of which is attached  
14 hereto and by this reference made a part hereof, by and between the Cities  
15 of Claremont, Pomona and La Verne, is hereby approved.

16 Section 2. The Mayor and the City Clerk shall sign said agreement on  
17 behalf of the City of Claremont.

18 Section 3. The Mayor shall sign this resolution and the City Clerk shall  
19 attest and certify to the passage and adoption thereof.

20 Passed, approved and adopted this 22nd day of April, 1957.

21 *Chester G. Jaeger*  
22 Mayor of the City of Claremont

23 ATTEST:

24 *Margaret J. Drucker*  
25 City Clerk of the City of Claremont

26 APPROVED AS TO FORM:

27 *William S. Bergman, Jr.*  
28 City Attorney of the City of Claremont  
29  
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1 STATE OF CALIFORNIA }  
2 COUNTY OF LOS ANGELES } ss.  
3 CITY OF CLAREMONT }

4 I, MARGARET F. DRINKER, City Clerk of the City of Claremont, County of Los Angeles, State  
5 of California, hereby certify that the foregoing Resolution No. 1678 was regularly adopted by  
6 the City Council of said City of Claremont at a \_\_\_\_\_ regular meeting of said Council  
7 held on the 22<sup>nd</sup> day of April, 1957, by the following vote:

8 AYES: Councilmen Jaeger, Shaw, Kram, Mesick & Lyerson  
9 NOES: Councilmen None  
10 ABSENT: Councilmen None

11 Margaret F. Drinker  
12 City Clerk of the City of Claremont

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Resolution No. 57-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LA VERNE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AUTHORIZING EXECUTION OF A CONTRACT WITH THE CITY OF POMONA AND THE CITY OF CLAREMONT RELATIVE TO JOINT USE OF CERTAIN SEWER LINES OWNED SEVERALLY BY THE PARTIES TO THE CONTRACT

BE IT RESOLVED by the Council of the City of La Verne as follows:

Section 1. That the Mayor and City Clerk of the City of La Verne be and they are hereby authorized to execute an agreement with the City of Pomona and the City of Claremont in connection with the joint use of certain sewer lines owned severally by the parties to the contract, said Agreement being in the form attached hereto and made a part hereof by reference as though the same were set forth in full herein. Resolution No. 943 is hereby repealed.

Section 2. That the City Clerk shall certify to the adoption of this resolution and thereupon the same shall take effect and be in force.

APPROVED AND ADOPTED this 1st day of April, 1957.

Attest:

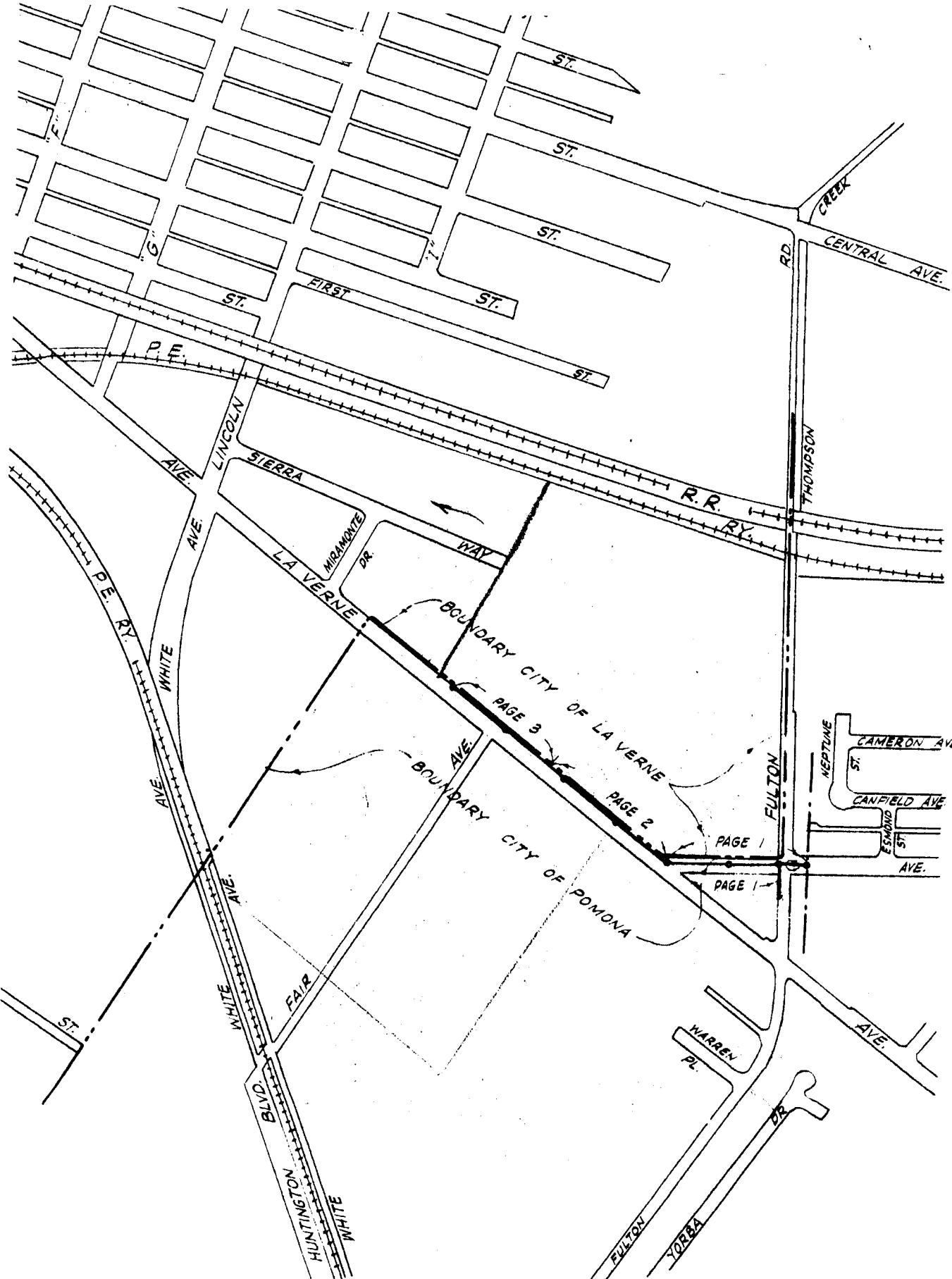
OWEN H. LEWIS  
Mayor of the City of La Verne

RUTH S. HOGAN  
City Clerk

I HEREBY CERTIFY that the foregoing Resolution No. 57-16 was approved and passed by the City Council of the City of La Verne at a regular meeting of said City Council held on the 1st day of April, 1957, by the following vote:

AYES: COUNCILMEN John C. Price, Walter H. Smith, J. Jack Melhorn,  
Leo A. Lomeli, Owen H. Lewis.





RESOLUTION NO. 4761

A RESOLUTION OF THE COUNCIL OF THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AUTHORIZING THE MAYOR TO SIGN, ON BEHALF OF THE CITY OF POMONA, A CONTRACT WITH THE CITY OF LA VERNE AND THE CITY OF CLAREMONT IN CONNECTION WITH THE JOINT USE OF CERTAIN SEWER LINES OWNED SEVERALLY BY THE PARTIES TO THE CONTRACT.

BE IT RESOLVED by the Council of the City of Pomona as follows:

SECTION 1. That the Mayor of the City of Pomona is herewith and hereby authorized and directed to sign an agreement in behalf of the City of Pomona with the City of LaVerne and the City of Claremont in connection with the joint use of certain sewer lines owned severally by the parties to the contract. A copy of the agreement is attached hereto marked Exhibit "A" and by reference made a part hereof as though set forth in full. Resolution 4581 is hereby repealed.

SECTION 2. The Clerk is directed to attest the signing of the agreement.

SECTION 3. The Clerk shall certify to the passage and adoption of this Resolution and it shall be in immediate force and effect.

APPROVED AND PASSED this 5th day of March, 1957.

ATTEST:

*[Signature]*  
\_\_\_\_\_  
City Clerk

*[Signature]*  
\_\_\_\_\_  
Mayor

APPROVED AS TO FORM this 5th day  
of March, 1957.

*[Signature]*  
\_\_\_\_\_  
City Attorney

ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

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STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES  
CITY OF POMONA

} ss.

I, the undersigned, City Clerk of the City of Pomona, DO HEREBY CERTIFY that the above and foregoing is a full, true and correct copy of Resolution 4761

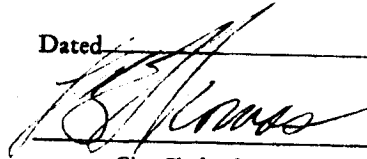
and that same has not been amended or repealed.

(SEAL)

3-18

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Dated \_\_\_\_\_, 19\_\_\_\_\_



\_\_\_\_\_  
City Clerk of the City of Pomona, California

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I hereby certify that the foregoing Resolution was passed and adopted by the City Council of the City of Pomona, and signed by the Mayor of said City at a \_\_\_\_\_ regular meeting of said Council held on the 5th day of March 2nd, 1957, by the following vote, to-wit:

|         |            |  |
|---------|------------|--|
| AYES:   | Councilmen | <u>Baker, Collins, Hoover, Turney, (Mayor) Cox</u> |
| "       | "          | _____  |
| NOES:   | "          | <u>none</u>  |
| ABSENT: | "          | <u>none</u>  |

L. B. Thomas  
City Clerk


ARLO E. RICKETT, JR.  
CITY ATTORNEY  
CITY OF POMONA, CALIFORNIA

## BACKFILL NOTES

1. MATERIAL FOR COMPACTED BACKFILL WILL CONSIST OF SUITABLE NATIVE EXCAVATED MATERIALS, IMPORTED SOILS, OR GRADED GRAVEL AS DEFINED IN THE PROJECT'S STANDARD SPECIFICATIONS FOR PIPE BEDDING.
2. TRENCH BACKFILL SLAG, PEA GRAVEL, CRUSHED ROCK, OR OTHER ALTERNATIVE MATERIALS ARE NOT ACCEPTABLE.
3. COMPACTION UNDER THE STREET SHALL BE 95% TO 6" BELOW PAVEMENT.

## BEDDING DETAIL NOTES

1. SLAG, PEA GRAVEL, OR OTHER ALTERNATIVE MATERIALS ARE NOT ACCEPTABLE IN LIEU OF GRANULAR EMBEDMENT. GRANULAR EMBEDMENT IS COARSE GRAINED NATIVE SOIL OR IMPORTED SAND WITH A MINIMUM SAND EQUIVALENCE OF 30, AND OF SUCH SIZE THAT 90 TO 100 PERCENT WILL PASS A NO. 4 SIEVE AND NO MORE THAN 5 PERCENT WILL PASS A NO. 200 SIEVE.
2. TRENCH SHORING AND TRENCH WALL SLOPING SHALL BE IN CONFORMANCE WITH STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
3. MATERIALS, EMBEDMENT, PLACEMENT AND COMPACTION OF GRANULAR EMBEDMENT AND COMPACTED BACKFILL WILL CONFORM TO THE CITY'S STANDARD SPECIFICATIONS FOR PIPE BEDDING AND TRENCH BACKFILL.

|  |           |   |   |               |
|--|-----------|---|---|---------------|
| <br>RENE GUERRERO, CITY ENGINEER<br>RCE NO. 66263 |           | 8/28/17<br>DATE   | CITY OF POMONA<br>PUBLIC WORKS DEPARTMENT |               |
|  |           | PIPE BEDDING AND<br>TRENCH BACKFILL NOTES                 |   |               |
|  |           | DRAWN BY: AA<br>CHECKED BY: IL, RG, NH<br>APPROVED BY: DP |   |               |
| △  | REVISIONS | DATE  | INITIAL                                   | STANDARD      |
|  |           |   |   | S10<br>2 OF 2 |