CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

July 1, 2015

Mr. David Peltzer
Director of Public Works
City of Whittier
13230 Penn Street
Whittier, CA 90602

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED
Claim No. 7014 2120 0004 7561 9263

NOTICE OF VIOLATION – CITY OF WHITTIER, CITY OF WHITTIER COLLECTION SYSTEM – WHITTIER, CALIFORNIA (ORDER NOS. 2006-0003-DWQ AND 2013-0058-EXEC)

Dear Mr. Peltzer:

The City of Whittier (Enrollee) operates a sanitary sewer collection system (hereafter, collection system), regulated under waste discharge requirements contained in State Water Resources Control Board Order No. 2006-0003-DWQ Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS WDR), adopted by the State Water Resources Control Board on May 2, 2006.

The SSS WDR contains waste discharge requirements and a monitoring and reporting program for the operation of the Enrollee's collection system referenced above. Wastewater conveyed by the Enrollee's collection system is susceptible of containing high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen-demanding organic compounds, oil and grease, and other pollutants which can degrade water quality and impact beneficial uses of water, and which are defined as wastes under the Porter-Cologne Water Quality Control Act (CWC § 13000 et seq.).

The SSS WDR prohibits any Sanitary Sewer Overflow (SSO) that results in a discharge of untreated or partially treated wastewater to waters of the United States. Furthermore, the Enrollee is required to report all SSOs to the statewide California Integrated Water Quality System (CIWQS) SSO Online Database[1]. As of June 18, 2015, the Enrollee has reported seventy-two (72) Category 1 SSOs totaling 23,547 gallons illegally discharged to waters of the United States.

On November 19, 2014, State Water Resources Control Board and Regional Water Quality Control Board (State and Regional Water Board) staff conducted an inspection of the Enrollee's collection system to evaluate compliance with the SSS WDR. The inspection findings (see Exhibit 1) and the inspection report (see Exhibit 2) are both attached for your reference.

[1] Available at:
https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso_main

You are hereby notified that the Enrollee is in violation of the Sanitary Sewer Collection System Order No. 2006-0003-DWQ and has violated California Water Code (CWC) §§ 13350 and 13383 as cited in in Exhibit 1 – Table 1:

You are required to immediately:

1. Ensure full implementation of all required reporting requirements contained in the Amended Monitoring and Reporting Program;

2. Immediately implement corrective and preventative actions to bring the Enrollee's collection system into compliance with the Sanitary Sewer Collection System Order No. 2006-0003-DWQ;

3. Submit, by **July 31, 2015**, a report to the Regional Board detailing the corrective actions being taken to bring the Enrollee's collection system into compliance with the Sanitary Sewer Collection System Order No. 2006-0003-DWQ. This report should address the violations and the Areas of Concern listed in Exhibit 1 – Inspection Findings attached to this notice. The report must be submitted as a pdf via email or disk to Mr. Andrew Choi, 320 W. 4th Street, Suite 200, Los Angeles, CA 90013-2343, achoi@waterboards.ca.gov, (213) 576-6791.

Pursuant to CWC § 13350, subdivision (e), the Enrollee is subject to penalties of up to $5,000 for each day in which a violation occurs or $10 for each gallon of waste discharged, but not both. Pursuant to CWC § 13385, the Enrollee is subject to penalties of up to $10,000 for each day in which a violation occurs plus $10 multiplied by the number of gallons by which the volume discharged but not cleaned up exceeds 1,000 gallons. The Regional Board may refer this matter to the Attorney General for judicial enforcement. The Regional Board reserves its right to take any enforcement actions authorized by law.

If you have any questions regarding this matter, please call Mr. Russ Colby at (213) 620-6373 or Mr. Andrew Choi at (213) 576-6791.

Sincerely,

Paula Rasmussen
Assistant Executive Officer

Enclosures:
Exhibit 1 – Inspection Findings
Exhibit 2 – Sanitary Sewer Collection System Inspection Report

cc: [via e-mail]
Jim Fischer, State Water Resources Control Board, Office of Enforcement
Bryan Elder, State Water Resources Control Board, Office of Enforcement
Julia Hooten, State Water Resources Control Board, Office of Enforcement
Eric Magnan, U.S. EPA, Region IX

Exhibit 1

Inspection Findings

TABLE 1: VIOLATIONS		
VIOLATION	**REQUIREMENT**	**DESCRIPTION**
1) *Based on review of CIWQS data reported by the City between 1/2/07 and 6/18/2015, the City certified that **23,547 gallons** of untreated sewage reached surface waters. (Please see Table 3 below)*	Prohibition C.1 of SSS WDRs (see page 7)	All of the Sanitary Sewer Overflows (SSOs) that discharged to waters of the United States are in violation of Prohibition C.1 of the SSS WDRs.
2) *The City failed to implement its Sewer System Management Plan (SSMP) Rehabilitation and Replacement Program.*	Provision D.13(iv)(c) of SSS WDRs (see page 11)	Section 4.4.1 located in both City 2011 and 2014 SSMPs state "the City began a three-year video inspection program that includes cleaning and inspection of the City's entire 194-mile gravity sewer system." Further, the City's 2014 SSMP states on page 4-8 that "Based on the findings from the conclusion of video inspection in 2011, as well as observations from regular maintenance, City staff compiled a list of priority repair and rehabilitation locations throughout the City." The City is not implementing its rehabilitation and replacement plan covering its entire sewer system. Inspectors learned that only approximately 15 percent of all contracted Closed-Circuit Television (CCTV) inspection data has been reviewed for identifying, programming and funding necessary rehabilitation and replacement projects for the entire sewer system.
3) *The City's existing SSMP Capital Improvement Program is deficient.*	Provisions D.13(iv)(c) of SSS WDRs (see page 11)	Page 4-6 in both City 2011 and 2014 SSMPs state the potential total of about **850** Grade 5 defects throughout the sewer system based on extrapolating early CCTV inspection findings. Despite this significant potential, the City failed to expend any capital improvements for sewer rehabilitation and replacement projects for fiscal years 2011/12 and 2012/13.
4) *The City failed to conduct an adequate SSMP 2-year Audit.*	D.13(x) of SSS WDRs (see page 14)	The City's 2-year internal audit of its SSMP was extremely cursory in a "checklist" format and fails to evaluate the effectiveness of the SSMP, including identification of areas for improvement and steps to correct any deficiencies.
5) *The City does not have a SSMP plan of communication with tributary sewers.*	D.13(xi) of SSS WDRs (see page 15)	The City discharges its sewage waste into pipelines owned by the Los Angeles County Sanitation Districts (LACSD) at several junction points located throughout the city. However, the inspection revealed that the City has no plan of communication with LACSD nor regularly communicates with this tributary sewer entity. The City must create a plan of communication with LACSD covering sewer system coordination between the two entities.
6) *The City failed to meet the 2-hour notification requirements for 3 Category 1 SSOs*	Amended MRP Order Nos. 2008-0002-EXEC and 2013-0058-EXEC	The City failed to timely notify all three required agencies within 2 hours of becoming aware of SSO ID 793045 [State Office of Emergency Services (OES), the local health officer, and the Regional Water Board]. In addition, the City failed to timely notify OES within 2 hours of becoming aware of SSO IDs 800755, and 811286.

7) *The City's November 2014 SSMP fails to include a Water Quality Monitoring Plan for large SSOs.*	Subsection D, Amended MRP (Order No. 2013-0058-EXEC page 9)	Subsection D of the Amended MRP requires the City to develop and implement an SSO Water Quality Monitoring Plan for assessing impacts from SSO(s) in which 50,000 gallons or greater are spilled to surface waters.

TABLE 2: AREAS OF CONCERN[1]		
AREA OF CONCERN	**REQUIREMENT**	**DESCRIPTION**
1) *The City's program to address identified sewer system capacity deficiencies should be improved.*	Provision D.10 of the SSS WDRs (see page 9)	The City's 2014 SSMP on page 8-3 states that "Due to lack of significant wet seasons during this reporting period, a flow monitoring program was not feasible. In the next reporting period if the wet weather conditions prevail, flow monitoring program will be performed during the winter months at the two project locations and at other key locations throughout the sewer system to determine the magnitude of I/I and to update dry weather flows." The inspection included review of some pipelines already identified to have capacity-deficient issues and were visually observed to be flowing above ½ full during an off-peak period. To avoid or reduce future capacity-related SSOs, the City should improve its strategies including funding sewer upgrades and consideration of additional proactive measures, technologies, and industry standard practices to prevent SSOs during wet weather.
2) *The City's existing Fats, Oils and Grease (FOG) and Root Control programs should be improved.*	Provisions D.8, D.13(iii)(a), and D.13(vii) of SSS WDRs (see pages 9, 10, and 13)	Historically, over 70 percent of the City's historic SSOs were reportedly caused by "Operational" issues which include FOG and roots (see Attachment 3 — Whittier City Collection System Operational Report" for more information). Page 7-2 of the City's 2014 SSMP states that "The City believes that there is no basis, at this time, to support undertaking a commercial FOG source control program nor is there the basis to support undertaking a residential outreach program. The City will continue with the current program and will evaluate the effectiveness of the program." The City also confirmed during the inspection that they do not see the need for conducting any type of commercial source control program or residential FOG program. Further, the inspection revealed that the City has not developed a root control initiative and solely relies on contractor recommendations for selection of periodic root foaming locations throughout the City. To avoid or reduce future SSOs caused by FOG and roots, the City should incorporate additional proactive measures, technologies, and industry standard practices to further improve its existing FOG and root control programs.
3) *Some manholes were observed to be buried underneath asphalt on one street.*	Provision D.8 of the SSS WDRs (see page 9)	The inspection revealed that the City does not use a tracking program to prevent manholes from being buried during pavement improvement projects. The City should use measures to avoid burial of manholes to ensure compliance with Provision D.8 of the SSS WDRs.

[1] Areas of Concern are issues identified in the audit that could lead to future violation(s) if not properly addressed.

TABLE 3: LIST OF SSOs REACHED SURFACE WATER					
EVENT ID	SSO Category	SSO Volume	Volume of SSO Recovered	Volume of SSO Reached Surface Water	SSO Failure Point
815898	Category 1	200	0	200	Gravity Mainline
814433	Category 1	980	344	636	Gravity Mainline
813958	Category 1	225	50	175	Gravity Mainline
813770	Category 1	1,250	0	1,250	Gravity Mainline
813768	Category 1	750	0	750	Gravity Mainline
813322	Category 1	500	0	500	Gravity Mainline
813260	Category 1	125	19	125	Gravity Mainline
812255	Category 1	125	0	125	Gravity Mainline
812249	Category 1	175	0	175	Gravity Mainline
812242	Category 1	100	0	100	Gravity Mainline
811286	Category 1	2,750	8	2,742	Gravity Mainline
811112	Category 1	175	0	175	Gravity Mainline
811102	Category 1	1,500	40	1,460	Gravity Mainline
810781	Category 1	500	0	500	Gravity Mainline
810759	Category 1	100	0	100	Manhole
810602	Category 1	520	0	520	Gravity Mainline
810506	Category 1	850	292	558	Gravity Mainline
810503	Category 1	450	0	200	Gravity Mainline
810395	Category 1	80	60	20	Gravity Mainline
809827	Category 1	92	31	61	Gravity Mainline
809522	Category 1	75	0	75	Gravity Mainline
809190	Category 1	500	0	500	Gravity Mainline
808928	Category 1	100	2	98	Gravity Mainline
808720	Category 1	130	0	130	Gravity Mainline
808596	Category 1	75	0	75	Gravity Mainline

808594	Category 1	225	0	225	Gravity Mainline
807203	Category 1	555	0	555	Gravity Mainline
806906	Category 1	1,500	63	1,437	Gravity Mainline
805792	Category 1	125	0	125	Gravity Mainline
805471	Category 1	850	337	513	Gravity Mainline
803447	Category 1	925	63	862	Gravity Mainline
803440	Category 1	690	380	310	Gravity Mainline
803292	Category 1	60	0	60	Gravity Mainline
802931	Category 1	105	0	105	Gravity Mainline
802556	Category 1	175	0	175	Gravity Mainline
802526	Category 1	900	0	900	Gravity Mainline
801438	Category 1	40	0	40	Gravity Mainline
800755	Category 1	1,283	8	1,275	Gravity Mainline
800697	Category 1	144	0	144	Gravity Mainline
800696	Category 1	144	0	144	Manhole
798229	Category 1	160	0	160	Main
797539	Category 1	250	117	133	Main
796265	Category 1	200	0	200	Main
794542	Category 1	110	45	65	Main
794111	Category 1	50	8	42	Main
793643	Category 1	50	15	35	Main
793392	Category 1	500	0	500	Main
793045	Category 1	1,800	1,000	800	Main
791450	Category 1	215	0	215	Main
790266	Category 1	450	0	450	Main
789700	Category 1	170	120	50	Main
788743	Category 1	100	0	100	Main
788295	Category 1	650	300	350	Main

787964	Category 1	20	0	20	Main
787549	Category 1	200	0	200	Main
786215	Category 1	30	0	30	Main
785251	Category 1	25	0	25	Main
784818	Category 1	100	0	100	Main
765815	Category 1	200	0	200	Main
765812	Category 1	600	0	600	Main
765349	Category 1	60	0	30	Main
764681	Category 1	100	0	100	Main
764659	Category 1	200	50	150	Main
763954	Category 1	100	35	70	Clean out
762675	Category 1	70	0	70	Main
759036	Category 1	300	0	197	Main
744320	Category 1	200	71	129	Main
719146	Category 1	200	0	200	Main
714405	Category 1	15	6	9	Main
714398	Category 1	60	0	60	Main
710150	Category 1	70	33	37	Main
710148	Category 1	125	25	100	Main
Total Volume of SSOs reached surface water =				**23,547**	

Exhibit 2

Sanitary Sewer Collection System Inspection Report

Inspected By:	Agency:	Inspection Date
Jim Fischer, WRCE Bryan Elder, WRCE Julia Hooten, ES Andrew Choi, WRCE Eric Magnan, Engineer	SWRCB-Office of Enforcement SWRCB-Office of Enforcement SWRCB-Office of Enforcement Los Angeles Regional Water Board U.S. EPA, Region IX	**11/19/2014** (CIWQS Inspection ID 19763061)

Name and Location of Facility Inspected	Entry Date/Time	Exit Date/Time
City of Whittier (CIWQS Place ID #631782) 13230 Penn Street Whittier, CA 90602	11/19/2014 (0910)	11/19/14 (1600)

WDID NO.	Order No.	Population	Permit Effective Date	Permit Expiration Date
4SSO10443	2006-0003-DWQ	87,000	1/2/2007	N/A

Representative(s) Name(s) & Title(s):	Contact Information:
Hye Jin Lee, Assistant Director of Public Works Howard Miller, Street Maintenance Supervisor Ken Kittridge, Street Maintenance Division Carol Kresan, Staff Assistant II David Pelser, Director of Public Works	**Phone No:** (562) 567-9500

Inspection Consent Approved By:	Date	Time
Hye Jin Lee, Assistant Director of Public Works	11/19/2014	0920

Sewage Collection System Description

One sanitary sewer collection system (no sewage lift stations or pressurized force mains) with 194.2 miles of gravity sewers and one mainline siphon.

On November 19, 2014, the above State Water Resources Control Board inspection team staff performed a scheduled inspection of the Whittier City Sanitary Sewer Collection System (Whittier CS) in Whittier, California. The weather during the inspection was sunny and warm with temperatures in the 70s. The purpose of the inspection was to evaluate the City's compliance with the Sanitary Sewer System Waste Discharge Requirements (SSS WDRs), Order No. 2006-0003-DWQ. This includes a pre-inspection data review, onsite inspection of the facility, and a post-inspection review of follow-up materials provided subsequent to the inspection.

According to data submitted by the City (see Attachment 1 — "Pre-Inspection Questionnaire completed by Whittier City"), the sewer system serves a population of 87,000, and approximately 76 percent of the collection system pipes were constructed prior to 1960. Lee, Miller and Kresan were present for most of the inspection activities with Lee providing the main facilitation throughout the day. Pelser was present only for the Post-Inspection Conference portion of the inspection (see below).

PART 1: PRE-INSPECTION CONFERENCE

We began with introductions of inspection team members and also distributed an inspection sign-in sheet to document all members present for the inspection (see Attachment 2 — "Whittier City Inspection Sign-In Sheet for November 19, 2014"). We also discussed the reasons for the inspection, information about state and regional board responsibilities, and requested consent for performing the inspection and taking photographs to document the inspection activities. Lee provided a verbal "yes" for the inspection/photo consent at approximately 0920. We also provided an outline of the proposed agenda for the inspection including a request for having field personnel available for the afternoon inspection areas.

A wide variety of detailed questions and answers related to sewer staffing, operations, maintenance activities and SSO emergency response operations were discussed during the Pre-Inspection Conference. The City was very prepared with numerous materials ready for our review including a completed "Pre-Inspection Questionnaire", their SSMP and past SSMP Audits reports. A summary of the main topics and information discussed is summarized below:

1. **SEWER SYSTEM MANAGEMENT PLAN (SSMP):** Lee stated the City is currently in the process of updating their older SSMP and it is scheduled to be presented to their local governing board in December 2014.

2. **CREW SCHEDULING:** Miller described sewer operations for both normal and after-hours calls. He said they run a regular shift from 6:30 to 3:00 pm and have 2 crew members teaming on each of their 2 vactor trucks. Miller said the City has 6 operators total and all do rotations for standby services.

3. **SEWER SERVICE CALLS:** Miller described City Hall procedures for handling sewer-related calls during regular business hours. Miller said that after-hours calls are typically handled via police dispatch and crews complete "after hours call out sheets" to document these work activities.

4. **RECORDS:** Miller provided a copy of their current sewer call out form and stated that he thinks they "have good record keeping procedures". Miller described their record keeping process as very comprehensive, including detailed forms and call-out sheets. Lee stated that the City is going to be moving ahead on a project to upload more sewer call records into their online storage/network to make all files available for crews and other departments. Lee stated that at this time, they have not implemented a computerized maintenance and management software (CMMS) system but they are looking into it. We asked about crew record keeping procedures and Miller stated that all their sewer trucks have log books that the crews use on a regular basis. Miller emphasized to us that the City purchased a second dedicated vactor truck for cleaning and SSO response back in January 2012 which is a really big help for them maintaining their 194 miles of collection lines. Kresan provided us with a large print-out of an Excel spreadsheet which is being currently used to track all sewer-related calls including complaints for sewer laterals. Miller said the records are totally complete but Kresan stated that we "might" find some discrepancies in the records, however, openly offered all the files to us for our review.

5. **LATERAL CONNECTIONS:** We asked why the City's Collection System Questionnaire currently states that they have never had a program for owning, maintaining or repairing sewer laterals. Kresan said that they probably misinterpreted this question and Miller agreed. They explained that they used to have an old lateral maintenance program, from 1998 ending in 2008, but no longer have it since it was not cost effective for them to keep running it.

6. **ROOT INTRUSION ISSUES:** Lee described the City's root control program, which includes a budget of approximately $125,000 per year for treating 27 miles of sewer lines. She said Pacific Sewer

Maintenance holds their contract for full root service treating which is done on specific segments on an annual basis. Lee said the last foaming applications occurred in calendar years 2012 and 2013. Miller stated that per their SSMP, they are looking into other methods of "keeping lines clear" such as best practices used by others like Los Angeles County Sanitation Districts. We asked if they are strategically implementing best practices for root foaming to maximize their program effectiveness. Lee stated that they really don't have a formal application plan and they mostly rely on what the contractor recommends for periodic spot applications. We asked staff if the City owns and maintains any mechanical rodding equipment for roots and Miller responded stating that they have an old "rodding" truck which was rebuilt with a new section (1,000 feet) of rod. Miller also said they use this truck periodically on some targeted monthly and quarterly root problem areas.

7. **FOLLOW-UP ACTIONS FOR SSOs:** Choi noted in one of the City's SSO reports (Painter and Bailey streets) indicated that Closed-Circuit Television (CCTV) and foaming would be conducted after the cleanup efforts were completed and asked the City if this was completed for this SSO. Miller said he would need to check their sewer maps to see if any follow-up actions explained in the SSO report were actually undertaken. After a lengthy discussion, it was determined that the City did not actually conduct follow-up CCTV on this sewer line segment but they did conduct root foaming which was confirmed by Miller. During this discussion item, Miller emphasized the fact that they have inspected the entire sewer system via CCTV between 2009 and 2011 and they review each SSO site after the incidents to decide if and when these areas need to go on a more frequent cleaning schedule.

8. **SEWER FEES:** Lee told us that their sewer rate was increased most recently in 2013 and they have plans for more rate increases in the near future to assist new capital improvements. She said they have a two-step increase in place over the next 2 years, which has been designed to support their larger 30-year sewer replacement plan for the entire City. Lee also said they are moving forward on a few new "upsizing" mainline projects. Lee also told us that their current sewer rates are $12.80 per month billed via property tax assessments. Lee said that in the short term, they are planning to go to their board in 2015 with another rate increase to support their 30 year planning effort which will include some new large capacity enhancement projects since they have not actually collected enough money to support their top projects. Lee said she would be happy to provide us with their current "wish list" after the inspection.

9. **FATS, OILS, AND GREASE (FOG):** Lee stated that the City does not have any type of formal FOG program and said they are not doing any commercial or public FOG "targeted" outreach at this time since they don't think they have major FOG issues based on records going back to 2007. Miller stated that from time-to-time they have FOG issues "pop out of nowhere" but nothing on a regular basis. Miller also said that they have identified some specific FOG-prone residential areas within the collection system that he said is related to an illegal commercial catering activity. Miller said that they typically clean areas like these on a frequent basis and he said that they have some specific areas and lines on monthly cleaning schedules. Lee and Miller both agreed that they have the legal authority to enforce grease violators if they need to. Miller also stated that to date, they have never done any formal FOG enforcement or sent any notices of violation (NOV).

10. **SEWER REHABILITATION AND REPLACEMENT:** After a lengthy discussion, we confirmed that the City has only reviewed and confirmed problem pipe ratings for about 15 percent of all contracted CCTV inspection data for identifying, programming, and funding rehabilitation and replacement projects for the entire sewer system. Miller stated that he did not know when the City would complete review of the remaining 85 percent of the CCTV inspection data to support future rehabilitation and replacement projects.

11. **TRIBUTARY SYSTEM COMMUNICATION:** The City discharges its sewage waste into Los Angeles

County Sanitation Districts (LACSD) pipelines at several junction points located throughout the City. After a short discussion, we determined that the City does not have any type of plan of communication with LACSD for coordination of SSO emergencies.

PART 2: VISUAL INSPECTION ACTIVITIES

1. **CITY CORPORATION YARD:** At approximately 1340 hrs, we met Miller and Lee at the City's corporation yard to learn more about the sewer program, equipment and maintenance practices (see Photos 1-8 below).

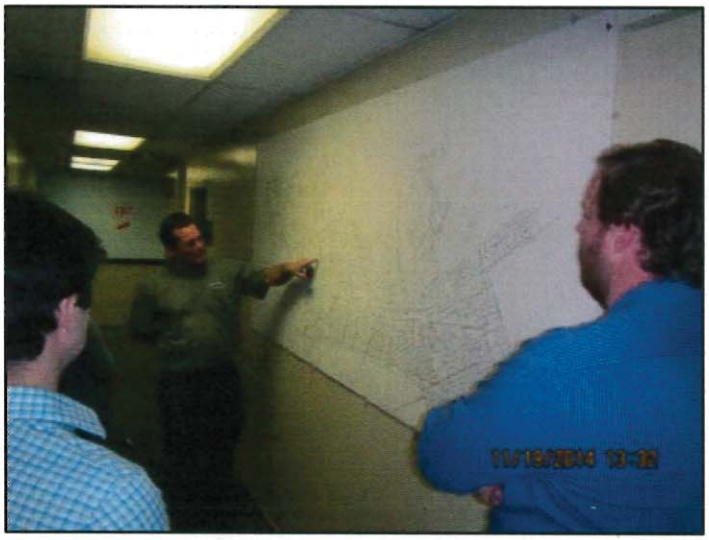


Photo 1: Miller explaining problematic sewer areas

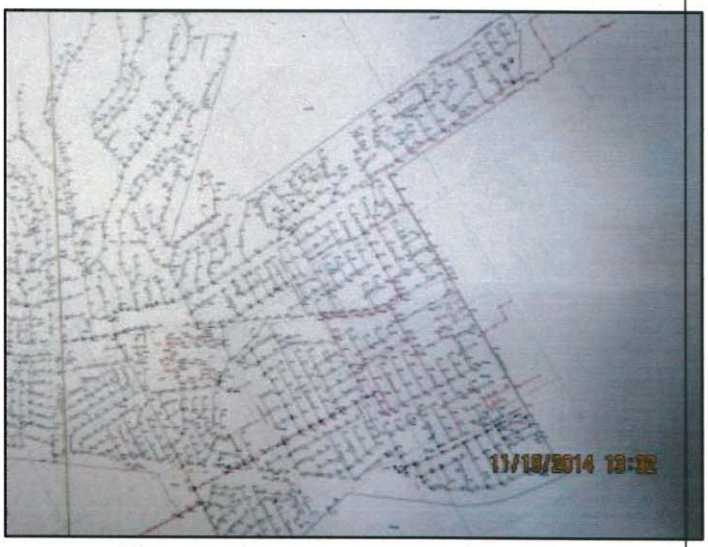


Photo 2: Close view of City sewer map

Photo 3: Inspection of City corporation yard (view 1)

Photo 4: Inspection of City corporation yard (view 2)

Photo 5: Inspection of City corporation yard (view 3)

Photo 6: Inspection of City corporation yard (view 4)

Photo 7: Inspection of City corporation yard (view 5)

Photo 8: View of rooting bit with roots still attached to cutter

2. **SEWER LINE FOG INSPECTION ("Uptown" area):** Following inspection of the corporation yard, at 1410 we drove to the "uptown" area in downtown Whittier which has numerous restaurants to visually check for any significant buildup of fats, oils, and grease (FOG) in the sewer system (see Photos 9 and 10 below). Miller stopped his City vehicle and opened a manhole for us near the intersection of Philadelphia Street to the west of Green Leaf Street for our FOG inspection. No significant odors, FOG, or rags were observed. We asked Miller to explain what recent maintenance had been performed on this line and Miller explained that this entire area is regularly cleaned, which was done within the past few months. Miller also stated that the City has not experienced any significant FOG problems, which he thinks is attributable to the City's diligent cleaning schedule for this area to avoid FOG buildup from restaurants in the area. Miller also stated that the City had recently implemented a new capital improvement project to increase this pipeline size (and capacity). He said this line, which was formerly a 6-inch sewer pipe, is now a 10-inch sewer pipe.

Photo 9: FOG sewer line inspection (view 1)

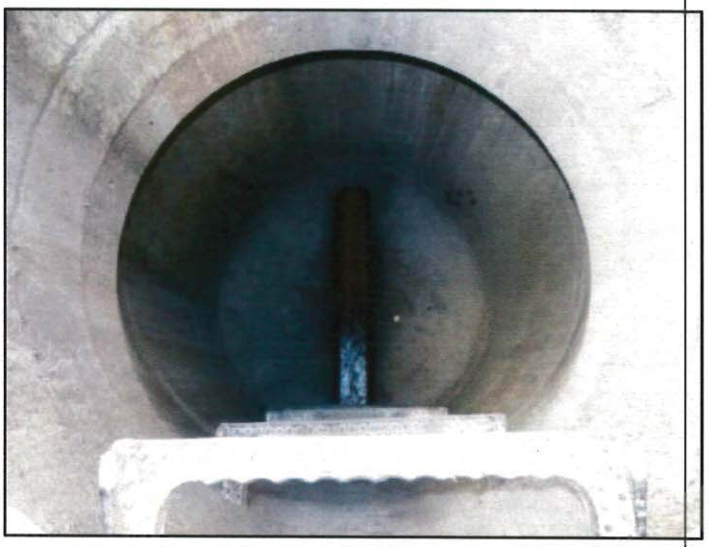


Photo 10: FOG sewer line inspection (view 2)

3. **SEWER LINE CAPACITY INSPECTION (Whittier and Pickering):** At approximately 1420, we drove to the intersection of Whittier Blvd. and Pickering Road to perform a visual inspection of a sewer line that has been identified as "under-capacity" in the City's SSMP (see Photos 11-14 below). Miller stated before opening the manhole that he was not really sure why this area had been selected by the Engineering department for being a problem with capacity. We also asked Miller and Lee about how often the Operations and Engineering departments within public works meet and Lee stated that they have not been meeting on a frequent basis in the past. Lee said that she plans to schedule and hold regular meetings with both departments on a more frequent basis to improve information sharing between the departments.

   The following list of deficiencies was documented for this portion of the inspection:

   1. Sewer line was running nearly full inside the manhole (during dry weather and also during an off-peak flow period of the day).

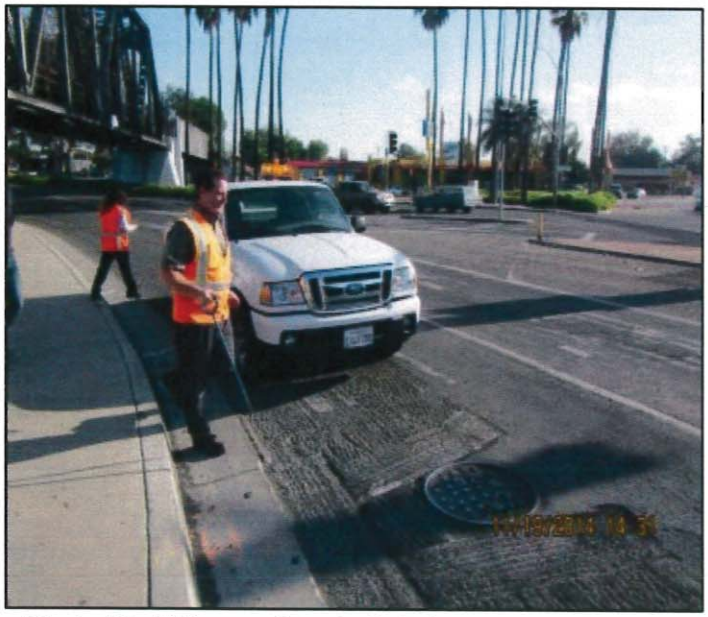


Photo 11: Miller opening manhole for capacity inspection

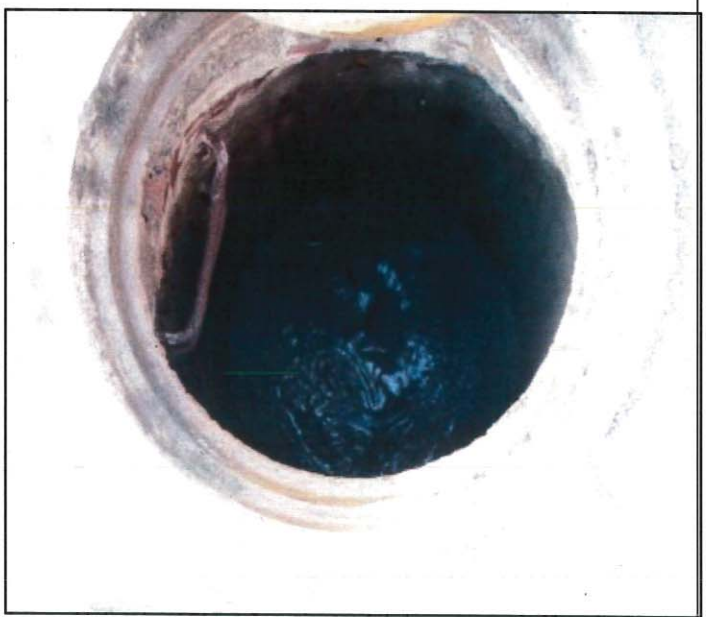


Photo 12: High sewage level with pipe nearly full (view 1)

Photo 13: High sewage level with pipe nearly full (view 2)

Photo 14: High sewage level with pipe nearly full (view 3)

4. **<u>FORMER SSO SITE INSPECTION (Painter Street and Bailey Street):</u>** At approximately 1440, we drove to the intersection of Painter and Bailey streets to perform a visual inspection and talk through collection crews about this former SSO site which experienced a root blockage (see Photos 15-18 below).

Photo 15: Former root blockage SSO site (view 1)

Photo 16: Former root blockage SSO site (view 2)

Photo 17: Former root blockage SSO site manhole (view 1)

Photo 18: Former root blockage SSO site manhole (view 2)

5. **SEWER LINE CAPACITY INSPECTION (6542 Bailey Street):** At approximately 1450, we performed a visual capacity inspection of a sewer line where flows had recently been reduced by the City due to a new capital project to "bypass" some of the sewage that normally flowed through this area (see Photos 19-20 below).

Photo 19: Miller explaining "bypass project" for this line

Photo 20: View of manhole in this location

6. **SEWER LINE CAPACITY INSPECTION (Bailey Street and Hadley Street):** At approximately 1500, we drove to Bailey and Hadley streets to inspect a sewer line and manhole that the City had recently rehabilitated (see Photos 21-22).

The following list of deficiencies was documented for this portion of the inspection:

1. Large rag located in pipe root (see Photo 22).

Photo 21: Miller opening rehabilitated manhole for inspection

Photo 22: View of manhole, pipeline and rag

7. **SEWER LINE CAPACITY INSPECTION (Norwalk Blvd and Loc Lomand Drive):** At approximately 1510, we arrived at the intersection of Norwalk Blvd at Loc Loman Drive to inspect this capacity issue area that had previously been identified by the City. We noted that the 10" mainline sewer pipe was running at least half full despite being a dry weather day and at a low flow period of the day. When we left the inspection site, we also noticed that there was a lack of manhole structures on Loc Loman Drive. Miller stated that their typical manhole spacing around the City is normally around 600 feet based on their design standards and he said he would check maps when we get back for the spacing on Loc Loman Drive. When we returned to the Corporation Yard, Miller said that he checked the maps which should be 320 feet between manholes. He said he thinks that the manholes on that street could have been covered-over by asphalt work.

   The following list of deficiencies was documented for this portion of the inspection:

   1. Sewer line was running very full inside the manhole (during dry weather and during an off-peak flow period of the day).

   2. Lack of accessible manholes on Loc Loman Drive.

Photo 23: Crews securing area for mainline inspection

Photo 24: Mainline inspection with Miller

Photo 25: View of mainline sewer in this location (view 1)

Photo 26: View of mainline sewer in this location (view 2)

PART 3: POST-INSPECTION CONFERENCE

At approximately 1545, we conducted a Post-Inspection Conference with City representatives including Pelser back at City Hall covering the following points:

- Reviewed information about the City's former sewer lateral maintenance program and capital improvement strategies integrating water, sewer and pavement.
- Reviewed information about the City's new efforts in looking into replacing laterals within City's "right of ways" to further assist with addressing current root problems.
- Reviewed and discussed new efforts being undertaken by the City to "upsize" many of their existing 6-inch sewer mains to at least 10-inches in diameter to improve flows and allow conveyance of any root balls that

enter the collection system which could prevent future SSOs.

- Encouraged the City to obtain additional best practices documentation to assist them with further reducing SSOs and improving their capital/asset management and root control efforts.

- Reviewed findings that the City's current SSMP Audit is not compliant with subsection D.13(x) of the SSS WDRs and needs to be improved.

- Reviewed findings that the City needs to address its backlog of CCTV data to support compliance with Provisions D.13(iv)(c) and D.13(viii) of the SSS WDRs.

ATTACHMENTS

ATTACHMENT 1 — Pre-Inspection Questionnaire Completed by Whittier City

ATTACHMENT 2 — Whittier City Inspection Sign-In Sheet for 11/19/2014

ATTACHMENT 3 — Whittier City Collection System Operational Report

ATTACHMENT 1

"Pre-Inspection Questionnaire" completed by Whittier City

SEWER COLLECTION SYSTEM

PRE-INSPECTION QUESTIONNAIRE

Version 1.7

PART 1 — DESCRIPTION

This Sewer Collection System Pre-Inspection Questionnaire (Questionnaire) includes questions specific to the requirements in the Sanitary Sewer System Waste Discharge Requirements Water Quality Order No. 2006-0003-DWQ (hereafter SSSWDR), and its accompanying Amended Monitoring Plan Order No. 2008-0002-EXEC (hereafter Amended MRP).

All of the questions in this Questionnaire must be answered by the Enrollee to demonstrate how the agency is complying with the SSSWDR and the Amended MRP. All responses provided in the Questionnaire along with the documentation required to be submitted by each Enrollee (see Part 3, Section 1) will be collected by the Water at the time of the inspection.

PART 2 — INSTRUCTIONS

1. Complete all questions in the Questionnaire.
2. Save an electronic copy of the completed Pre-Inspection Questionnaire (in MS Word), and the other documentation required for your collection system (see Part 3, Section 1). Print the last page of this Questionnaire and sign it in ink.

PART 3 — REQUIRED INFORMATION

1 DOCUMENTATION

P' e have the following documentation available during the inspection:

1.1 Sewer System Management Plan [(SSMP) [Sanitary Sewer System General Waste Discharge Requirements (SSSWDR), Sect. D.13] and any documents referenced within the SSMP. Also include documentation showing approval of the SSMP by your agency's local governing board (e.g., Board Resolution or other documentation).

1.2 SSMP Program Audit[1] [SSSWDR, Sect. D.13(x)], if not contained within your agency's SSMP

1.3 Sewer System Area Map [SSSWDR, Sect. D.13(iv)], if not contained within your agency's SSMP

1.4 Local Sewer Use Ordinance [SSSWDR, Sects. D.13(iii) and D.13(vi)], if not contained within your agency's SSMP

1.5 Evidence of Agency's SSO Field Response Documentation [SSSWDR, Amended MRP, B.5], if not contained within your agency's SSMP

1.6 Rehabilitation and Replacement Plan [SSSWDR, Sect. D.13(iv)(c)], if not contained within your agency's SSMP

1.7 Capital Improvement Plan (CIP) Schedule for System Evaluation and Capacity Assurance Plan (SECAP) [SSSWDR, Sect. D.13(viii)], if not contained within your agency's SSMP

2 Basic Information

2.1 Collection System Waste Discharge ID number (WDID) and Collection System Name: 4SSO10443

[1] .tisfy SSSWDR, Sect. D.13(x), the SSMP Audit must occur at least every two years following the original approval date of the agency's SSMP by the local governing board. The SSMP Audit must measure the effectiveness and compliance of an Enrollee's SSMP.

2.2 Collection System Main Point(s) of Contact (name, title, address, email, and telephone number): Howard Miller, Street Supervisor, 12016 Hadley St, Whittier, CA 90601, (562) 567-9558, hmiller@cityofwhittier.org

2.3 Type of Sanitary Sewer System (select ONE of the following: Municipal

2.4 What is the population served by your agency's sanitary sewer system? 85,363

2.5 What is this fiscal year's budget for operation and maintenance sanitary sewer system facilities? $1,473,045

2.6 What is this fiscal year's budget for capital expenditures for sanitary sewer system facilities? $2.45m

For questions 2.7 - 2.10, please identify the total number of employees (technical and mechanical) for your agency's sanitary sewer system (including pump station operations) working within the different classifications listed below.

2.7 Entry Level (Less than 2 years experience)

Number of agency employees? 1

2.8 Journey Level (Greater than or equal to 2 years experience)

Number of agency employees? 3

2.9 Supervisory Level

Number of agency employees? 2

2.10 Managerial Level

Number of agency employees? 3

For questions 2.11 – 2.14, please identify the total number of employees who hold CWEA Certification for Collection System Maintenance for your agency's sanitary sewer system (including pump station operations) for the various Certificates and Grades levels listed below.

2.11 Grade I

Number of certified (Grade I Collection System Maintenance) agency employees: 0

Number of certified (Grade I Plant Maintenance Technologist) agency employees: 0

2.12 Grade II

Number of certified (Grade II Collection System Maintenance) agency employees: 0

Number of certified (Grade II Electrical/Instrumentation Technologist) agency employees: 0

Number of certified (Grade II Mechanical Technologist) agency employees: 0

2.13 Grade III

Number of certified (Grade III Collection System Maintenance) agency employees: 0

Number of certified (Grade III Electrical/Instrumentation Technologist) agency employees: 0

Number of certified (Grade III Mechanical Technologist) agency employees:

2.14 Grade IV

Number of certified (Grade IV Collection System Maintenance) agency employees: 0

Number of certified (Grade IV Electrical/Instrumentation Technologist) agency employees: 0

Number of certified (Grade IV Mechanical Technologist) agency employees: 0

2.15 Estimated Size Distribution of Assets

Diameter of sewer pipe	Gravity Sewers (miles)	Force Mains (miles)
6 inches or less	71.04	0
8 inches	112.1	0
9 - 18 inches	11.04	0
19 - 36 inches	0	0
> 36 inches	0	0
Unknown Diameter	0	0
Totals	194.18	0

2.16 For which portion of sewer service laterals is your agency responsible? 0

(If None, skip question 2.17.)

2.17 Estimated total miles of sewer service laterals (upper and lower) for which your agency is responsible?

2.18 Number of sewer service lateral connections? 21,107

2.19 Estimated total miles of easements within your sanitary sewer system? 10

2.20 What is your total easement sewer system cleaning production in miles/year? 10

2.21 What is your total gravity sewer system cleaning production in miles/year? 280

2.22 Does your agency own any separately enrolled collection systems? N

2.23 If yes to question 2.22, which collection system(s) does your agency own?

Collection System name(s): N/A

Collection System WDID(s): N/A

2.24 Which wastewater treatment plant(s) (WWTPs) ultimately receive wastewater from this collection system?

Receiving Treatment Plant name(s):

Receiving Treatment Plant WDID(s):

2.25 For question 2.24, does your agency own this/these WWTP(s)? N

2.26 Does your collection system discharge into any other collection system(s)]? N

2.27 If yes to question 2.26, which collection system(s) receive wastewater from this collection system?

Receiving Collection System name(s): Los Coyotes

Receiving Collection System WDID(s): 4B190107015

2.28 Do any upstream collection systems greater than 25,000 gallons/day (gpd) discharge into this collection system? N

2.29 If yes to question 2.28, which collection system(s) discharge into this collection system?

Upstream Collection System name(s): N/A

Upstream Collection System WDID(s): N/A

2.30 Estimated Collection System Flow Characteristics for your collection system:

Average Daily Dry Weather Flow (MGD)	Peak Daily Wet Weather Flow (MGD)
Unknown	Unknown
Enter description here how info. Is derived (based on EDUs measured, etc.)	Enter description here how info. Is derived (based on EDUs measured, etc.)

2.31 How many pump stations are there throughout the sewer collection system? 0

2.32 How many feet of above ground gravity pipelines are there throughout the sewer collection system? 0

2.33 How many feet of above ground pressurized pipelines are located throughout the sewer collection system? 0

2.34 How many air relief valves (ARVs) are located throughout the sewer collection system? 0

2.35 How many siphons are there throughout the sewer collection system? 1

2.36 Specify the percentage of piping and the number of pump stations constructed in the following table below:
(note: total percentage must equal 100%)

2.37 Has your agency ever conducted any historic flow monitoring for the sewer system to evaluate hydraulic characteristics during weather conditions? N

2.38 If yes to question 2.37 above, please list all specific dates when flow monitoring was conducted. N/A

2.39 Does your agency have any permanently installed flow monitor(s) in the collection system? N

2.40 If yes to question 2.38 above, please specific total number of monitor(s) installed. N/A

Age	Source of Age Info. (records, estimated, etc.)	Gravity & Pressure Sewers (%)	Pump Stations[2] 25k Gal/day & Over (number of stations)	Pump Stations[1] Under 25k Gal/day (number of stations)
2000 - Present		1%	0	0
1980 - 1999		8%	0	0
1960 - 1979		15%	0	0
1940 - 1959		50%	0	0
1920 - 1939		21%	0	0
1900 - 1919		5%	0	0
Before 1900		0%	0	0
Unknown Age		0%	0	0
Totals		100%	0	0

[1] For pump stations, flow categories are the maximum flow rate occurring over a 24-hr period based on annual operating data. Age is date asset was originally constructed.

3 ORGANIZATION

Local Governing Board Information

3.1 [SSSWDR, Sect. D.13(ii)]: Is/are your agency's Legally Responsible Official(s) and Data Submitter(s) registration information up-to-date with the State Water Board? Y

3.2 [SSSWDR, Sect. D.13(ii)]: If your local governing board has an internet website, please specify the internet address here: cityofwhittier.org

3.3 [SSSWDR, Sect. D.13(ii)]: Please list the names and titles of each of your agency's current governing board members: Whittier Utility Authority: Bob Henderson-Director, Cathy Warner-Chair, Joe Vinatieri-Director, Fernando Dutra-Vice Chair, Jeffrey W. Collier-Executive Director

Sewer System Management Plan Information

3.4 [SSSWDR, Sect. E.]: Is your agency's SSMP available on your agency's website? Y

3.5 [SSSWDR, Sect. E.]: If yes to question 3.4, please provide the internet address here: cityofwhittier.org

4 SEWER SYSTEM ASSETS

General System Information

4.1 [SSSWDR, Findings 2 & 3]: Please specify the basis for the population estimate in question 2.4 (e.g., official census data, estimated by agency, etc.)? 2010 U.S. Census; ref. City of Whittier website demographics

4.2 [SSSWDR, Sects. D.8, D.10]: What is the approximate size of the service area served by the sewer collection system for your agency, in square miles? 9.5

4.3 [SSSWDR, Sects. D.8, D.10]: Please describe the terrain within your agency's sewer service area (Mountainous, Hilly, Flat, Valley, etc.)? Mostly flat with some hillside residential.

4.4 [SSSWDR, Sects. D.8, D.10]: Please specify what percentage of the collection system's flow comes from residential, commercial, industrial, and institutional sources. Unknown

Asset Mapping

4.5 [SSSWDR, D.13(iv)]: Has your agency identified and mapped all the gravity sewer line segments, public access points (manholes, lamp holes, rod holes, etc.), pumping facilities, pressure pipes and valves, and stormwater-related facilities? Y

4.6 [SSSWDR, D.13(iv)]: Does your agency currently have sewer system assets mapped in a Geographic Information System (GIS)? Y

4.7 [SSSWDR, D.13(iv)]: Does your agency currently have stormwater-related facilities mapped in GIS? N

4.8 [SSSWDR, D.8 and D.10]: What is the estimated number of gravity sewer line pipe segments located throughout the collection system? Aprox 5000 segments

4.9 [SSSWDR, D.13(iv)]: Does your agency have a formal review process in place to ensure that any mapping issues noted by field staff or others are addressed? Y

4.10 [SSSWDR, D.13(iv)]: Please indicate the total number of public access points (manholes, lamp holes, rod holes, etc.) located within your sewer collection system. Aprox 5100

Sewer Service Laterals [SSSWDR, D.8, D.13(iv)]

4.11 Has your agency ever historically owned or maintained any portion of sewer service laterals? N

4.12 Does your agency have a voluntary sewer service lateral incentive program in place? N

4.13 How many incoming complaints did your agency receive for privately-owned sewer service lateral problems in the previous fiscal year? 150 (aprox)

4.14 How many service calls did your agency respond to in the field for privately-owned service lateral problems in the previous fiscal year? 150 (aprox)

4.15 Does your agency track all installation locations of sewer backflow prevention devices installed on sewer assets owned and/or maintained by your agency? N

4.16 If yes to 4.15, list number of known sewer backflow prevention devices installed on sewer assets owned and/or maintained by agency. N/A

Pumping Facility Assets

For questions 4.16 – 4.33 refer to your pump station assets from question 2.31 (above)

4.16 [SSSWDR, D.8, D.13(iv)]: Has your agency mapped each pump station's actual GPS coordinates? N/A

4.17 [SSSWDR, D.8, D.13(iv)]: Has your agency conducted a risk assessment for each asset? N/A

4.18 [SSSWDR, D.8 and D.10]: How many of these assets have redundant pipelines installed? N/A

4.19 [SSSWDR, D.8 and D.10]: How many have dedicated emergency stand-by power generators located onsite? N/A

4.20 [SSSWDR, D.8 and D.10]: Has your agency developed standard and emergency operating procedures for each asset in the event of a power and/or pumping failure? N/A

4.21 [SSSWDR, D.8 and D.10]: Has your agency determined the lowest hydraulic overflow point(s) and calculated the longest possible holding time(s) for each asset? N/A

4.22 [SSSWDR, D.6(iii) and (vi), D.8 and D.10]: Has your agency identified critical spare parts for each asset? N/A

4.23 [SSSWDR, D.6(iii) and (vi), D.8 and D.10]: For question 4.21, does your agency maintain the spare parts identified for each asset? N/A

4.24 [SSSWDR, D.8 and D.10]: How many facilities are located within 100 feet of a surface water, creek or drainage channel? N/A

4.25 [SSSWDR, D.8 and D.10]: How many are located within 20 feet of a storm drain inlet? N/A

4.26 [SSSWDR, D.8 and D.10]: How many pump stations are equipped with audible and/or visual alarms located in public view to expedite notification to your agency in the event of an SSO? N/A

4.27 [SSSWDR, D.8 and D.10]: How many pump stations are equipped with an Auto Dialer Alarm System(s) for detecting pump failure and/or high wet well levels? N/A

4.28 [SSSWDR, D.8 and D.10]: How many have a supervisory, control and data acquisition system (SCADA) installed and operational? N/A

4.29 [SSSWDR, D.8 and D.10]: For question 4.28, how many can be remotely operated? N/A

4.30 [SSSWDR, D.8 and D.10]: How many pump stations display emergency notification signage, including agency contact information, in public view to expedite notification to your agency in the event of an SSO? N/A

4.31 [SSSWDR, D.8 and D.10]: Does your agency implement vandalism control efforts to discourage unauthorized access and/or vandalism to these assets? N/A

4.32 [SSSWDR, D.8 and D.10]: How many pump stations have built-in pumping bypass capability for emergency use? N/A

4.33 [SSSWDR, D.8 and D.10]: How many have electrical power connections installed to allow for the use of portable emergency generators? N/A

Force Main Sewer Assets

4.34 [SSSWDR, D.8, D.13(iv)]: How many sewer force mains are owned by your agency? 0

4.35 [SSSWDR, D.8, D.13(iv)]: For the assets in question 4.34, has your agency conducted a risk assessment for each asset? N/A

4.36 [SSSWDR, D.8 and D.10]: For the assets in question 4.34, how many have a dedicated corrosion protection system(s) installed? N/A

4.37 [SSSWDR, D.8 and D.10]: For the assets in question 4.34, what is the total number of air relief valves installed? N/A

5 FINANCIAL INFORMATION

Funding Sources and Revenues [SSSWDR, D.9]

5.1 Does your agency utilize an Enterprise Fund for services provided to the public? Y

5.2 If yes to question 5.1, what are the total estimated annual revenues generated from this fund? 3.1 million

5.3 If yes to 5.1, what is the current fund balance? $8,132,076

5.4 Please provide a brief description of all sewer collection system funding source(s) (e.g., user fees, annual budget allocation, property taxes, etc.).

User Fees

5.5 What is your agency's total number of billed sewer connections? 20,637

5.6 What is your agency's total number of billed customers for sewer service? 20,637

5.7 What is your agency's current average monthly household user fee for sewage collection only? $12.87/mo

5.8 For the answer in 5.7, what is your agency's sewer fee rate basis? Measured flow

5.9 Has your local governing board approved any future sewer use fee increase(s)? N

Operations, Maintenance and Capital Funds and Expenditures [SSSWDR, Sects. D.9]

5.10 How much did your agency spend in the last fiscal year for operations and maintenance activities (O&M) of sewer assets? $1,183,408 (Employee Service Cost $582,886, O&M Cost $600,542)

5.11 How much did your agency spend in the last fiscal year on capital expenditures for sewer assets (e.g., new pipelines or equipment)? $224,102

6 LOCAL SEWER USE ORDINANCE [SSSWDR, D.13(iii) and/or D.13(vii)]

6.1 Does your agency have an adopted sewer use ordinance (Ordinance)? Y, WMC, Chap 13, Div II, Ord 3002, WMC Chap 8.26

If no to question 6.1, skip to question 7.1

6.2 Specify the date of last update/change of your agency's local Ordinance approved by your agency's local governing board. June 25, 2013

6.3 Specify the time frequency in which the Ordinance is reviewed. Every other year

6.4 Does your agency have legal authority within the Ordinance to limit and enforce illicit discharges from upstream public and/or private satellite collection system(s)? Y

6.5 If no to question 6.4, does your agency have service agreements or other procedures to limit and enforce illicit discharges from upstream public and/or private satellite collection system(s)? N/A

6.6 Does the Ordinance ban inflow from stormwater sources? N (not explicitly stated; City plans to monitor storm water infiltratic

6.7 Does the Ordinance specify who owns and/or maintains the sewer service lateral from the building foundation to the property line (upper lateral portion)? Y

6.8 Does the Ordinance specify who owns and/or maintains the sewer service lateral from the property line to the sewer main line (lower lateral portion)? Y

6.9 Does the Ordinance require testing and/or inspection of the sewer service lateral upon remodeling, renovations and/or transfer of property/residence? N

6.10 Does the Ordinance prohibit illicit discharges from service connections into the sewer? Y

6.11 Does the Ordinance require sewers and connections to be properly designed and constructed? Y

6.12 Does the Ordinance require proper maintenance, inspection and repairs of laterals? Y

6.13 Does the Ordinance limit the discharge of fats, oils and grease (FOG) and other debris that may cause blockages? Y

6.14 Does the Ordinance give your agency the authority to inspect grease producing facilities? Y

6.15 Does the Ordinance reference the Uniform Building Code? N (UBC adopted in separate ordinance)

6.16 Does the Ordinance reference the California Plumbing Code? N (CPC adopted in separate ordinance)

6.17 Does the Ordinance give your agency the authority to inspect, maintain and repair assets located within sewer easements? Y

6.18 Does the Ordinance provide your agency with the proper authority to issue notices of violation (NOVs)? Y

6.19 If yes to question 6.18, how many NOVs has your agency issued in the past 3 years? 0

6.20 Does the Ordinance provide your agency with the proper authority to issue enforcement penalties for violators? Y

6.21 If yes to question 6.20, how many enforcement penalties has your agency issued in the past 3 years? 0

6.22 Does Ordinance provide your agency with the proper authority to ban connections and/or disconnect services for violators? Y

6.23 If yes to question 6.22, how many actions has your agency undertaken in the past 3 years? 0

6.24 Does the Ordinance provide your agency with the authority to limit future development and/or building? N

6.25 If yes to question 6.24, how many actions has your agency undertaken in the past 3 years? 0

7 CAPITAL IMPROVEMENT PLAN

7.1 [SSSWDR, D.9]: What is the approval date of your Sewer Capital Improvement Plan (Sewer CIP) by your agency's local governing board? June 24, 2014

7.2 [SSSWDR, D.8 and D.13(iv)]: For question 7.1, is your Sewer CIP available on the internet for public review? Y

7.3 [SSSWDR, D.8 and D.13(iv)]: If yes to question 7.2, please specify the internet address: http://www.cityofwhittier.org/civicax/filebank/blobdload.aspx?blobid=2448

7.4 [SSSWDR, D.8 and D.13(iv)]: What is the projected date of your next Sewer CIP update? July 1, 2015

8 OPERATIONS AND MAINTENANCE PROGRAM

Computerized Maintenance Management System (CMMS)

8.1 [SSSWDR, D.8 and D.13(iv)]: Does your agency use a computerized maintenance management system (CMMS) to generate work orders and track sewer maintenance, operations and management information? N

8.2 [SSSWDR, D.7 and D.13(iv)]: If yes to question 8.1, is CMMS data used for ongoing strategies to eliminate/reduce SSOs? N/A

8.3 [SSSWDR, D.7 and D.13(iv)]: If yes to question 8.1, is the CMMS data used to evaluate cleaning production rates? N/A

8.4 [SSSWDR, D.7, D.13(iv) and D.13(ix)]: If yes to question 8.1, does your agency use the CMMS information to provide data for tracking system trends, problems and/or performance? N/A

8.5 [SSSWDR, D.7, D.13(iv) and D.13(ix)]: If no to question 8.1, does your agency have a different method in place to provide data for tracking system trends, problems and/or performance? Y

Inspections, Operations and Management Activities

8.6 [SSSWDR, D.8, D.13(iv)]: What was your agency's total gravity sewer collection system cleaning production (hydro flushing, mechanical and hand rodding) over the past 12 months (miles per year)? 280

8.7 [SSSWDR, D.8, D.13(iv)]: What is your agency's total gravity sewer collection system cleaning production scheduled (hydro flushing, mechanical and hand rodding) for the next 12 months (miles per year)? 280

8.8 [SSSWDR, D.8, D.13(iv)]: What was your agency's total video (CCTV) Inspection production in the past 12 months (miles)? 1 mile

8.9 [SSSWDR, D.8, D.13(iv)]: What is your agency's total video (CCTV) inspection production scheduled for the next 12 months? 1 mile

8.10 [SSSWDR, D.8, D.13(iv)]: Does your agency have a method in use for reviewing and analyzing force main sewers and their components? N/A

8.11 [SSSWDR, D.7 and D.13(iv)]: What is the total number of focused problem areas ("SSO hot spots") located throughout the collection system? 51 (21 monthly, 30 quarterly)

8.12 [SSSWDR, D.8 and D.10]: Does your agency have a program to inspect and maintain air relief valves (ARVs)? N/A

8.13 [SSSWDR, D.8 and D.10]: How many ARVs are not accessible for inspection/maintenance? N/A

8.14 [SSSWDR, D.7 and D.13(iv)]: What was the total number of ARVs exercised and cleaned in past 12 months? N/A

8.15 [SSSWDR, D.7 and D.13(iv)]: What is the total number of ARVs planned to be exercised and cleaned in the next 12 months? N/A

8.16 [SSSWDR, D.13(iv)]: What is the total number of public access points (manholes, lamp holes, rod holes, etc.) inspected in the past 12 months? 3,366

8.17 [SSSWDR, D.13(iv)]: What is the total number of public access points (manholes, lamp holes, rod holes, etc.) scheduled to be inspected in the next 12 months? Aprox 5000 (manholes only)

8.18 [SSSWDR, D.13(iv)]: Does your agency visually inspect pipeline routes at least annually, and after major storms, earthquakes or other events that could damage these assets, to check for sink holes or leaks along force main(s)? N/A

8.19 [SSSWDR, D.13(iv)]: How many above ground crossings (if applicable) were inspected in the past 12 months? N/A

8.20 [SSSWDR, D.13(iv)]: How many siphons (if applicable) were inspected in the past 12 months? 1

8.21 [SSSWDR, D.13(iv)]: Does your agency have a process to identify areas subject to excess hydrogen sulfide corrosion? N

8.22 [SSSWDR, D.13(iv)]: Does your agency have a formal pipe grading process in place to identify pipe discontinuities? N

8.23 [SSSWDR, D.13(iv)]: Does your agency require video (CCTV) inspections before and after cleaning to measure the effectiveness of these activities? N

8.24 [SSSWDR, D.13(iv)]: Does your agency video (CCTV) inspect pipes after all SSO(s)? N

8.25 [SSSWDR, D.13(iv)]: Does your agency conduct smoke, dye or other tests to check for illicit connections? N

8.26 [SSSWDR, D.13(iv)]: If yes to question 8.25, how many miles of sewer system were tested in the past 12 months? N/A

8.27 [SSSWDR, D.13(iv)]: Does your agency use video (CCTV) to monitor discharger compliance for illicit connections? N

8.28 [SSSWDR, D.13(iv)]: If yes to question 8.27, list the total number of miles of video (CCTV) inspection conducted for this purpose in the past 12 months. N/A

8.29 [SSSWDR, D.13(iv) and D.13(viii)]: Does your agency have formal agreements in place to increase resources through established mutual assistance agreements with other agencies/contractors for wet weather episodes or for SSO response activities? N

8.30 [SSSWDR, D.13(iv) and D.13(viii)]: Does your agency have a program in place to identify areas with inflow and infiltration (I/I) ? N

8.31 [SSSWDR, D.13(iv) and D.13(viii)]: If yes to question 8.30, estimate the total number of miles identified by this program. N/A

8.32 [SSSWDR, D.13(iv)]: Does your agency have an active root control program in place? Y

8.33 [SSSWDR, D.13(iv)]: If yes to question 8.32, please list the type(s) of control efforts in place. Chemical & mechanical.

8.34 [SSSWDR, D.13(iv)]: If your agency uses chemical(s) for root control, please list chemical(s) used. Sanaform Vaporooter II – active ingredient metam sodium, EPA #1015-70

Fats, Oils and Grease [SSSWDR, D.13(iv) and D.13(viii)]

8.35 Does your agency have a commercial FOG program in place? N

8.36 If no to question 8.35, has your agency justified in its SSMP why a FOG program is not needed? Y

8.37 If yes to question 8.35, does your agency have a FOG Ordinance separate from the sewer use ordinance? N/A

8.38 If yes to question 8.37, please list the FOG Ordinance citation number: N/A

8.39 If yes to question 8.35, approximately how many food service establishments (FSEs) such as restaurants, schools, hospitals, jails, and convalescent homes are subject to FOG control. N/A

8.40 If yes to question 8.35, what is the total number of FSE permits issued for FOG control? N/A

8.41 If yes to question 8.35, what is the total number of dedicated FSE FOG inspectors? N/A

8.42 If yes to question 8.35, how many FSE FOG inspections were conducted in past 12 months? N/A

8.43 If yes to question 8.35, how many FSE FOG enforcement action(s) were initiated in the past 12 months? N/A

8.44 If yes to question 8.35, how many FSE FOG inspections are planned for the next 12 months? N/A

8.45 Does your agency have a residential FOG program in place? N/A

8.46 If yes to question 8.45, briefly describe the program: _____

Sewer Contract Services

8.47 [SSSWDR, D.8 and D.13(iv)]: Does your agency retain contract service(s) for sewer collection system maintenance, operations, and/or management? Y

8.48 [SSSWDR, D.8 and D.13(iv)]: If yes to question 8.47, for services in excess of $10,000/year, please provide some basic information about these services in the table below:

Contractor Name	Description (cleaning, root control, repairs, , etc.)	Frequency of Contract	Budget (annual $)
Pacific Sewer Maintenance	Root control	Annual	$125,000
ter Sanitation	Spot repairs	Annual	$216,000

9 SSO EMERGENCY RESPONSE PROGRAM [SSSWDR, D.13(vi)]

9.1 Does your agency's SSO Emergency Response Plan incorporate procedures for pump stations/force main sewers? N/A

9.2 Does your agency have a dispatcher(s) within your agency to handle, dispatch and document incoming complaints from your sewer system customers? Y

9.3 If yes to 9.2, does your agency utilize a dispatch radio system for notifying collection crews who respond to SSOs? Y

9.4 If yes to 9.3, please list the frequency(s) in use for the dispatch radio system: 000458.30000000

9.5 Does your agency have standard operating procedures (SOPs) in place to test and document, at least once per year, the performance of its after-hours emergency notification system(s)? Y

9.6 Does your agency provide and document any scenario-based SSO emergency response simulation training for collections staff at least on an annual basis to ensure staff are properly trained and prepared in the event of an SSO? Y

9.7 If yes to 9.6, does this training include practical exercises including researching SSO start times and calculating the SSO volume spilled and recovered? Y

9.8 Do your emergency operating procedures (EOPs) include requirements to determine the impact of an SSO, including accelerated or additional environmental monitoring? Y

10 SSO REDUCTION PERFORMANCE AND MONITORING PROGRAM [SSSWDR, D.13(ix)]

10.1 Does your agency have a process in place to collect data to monitor performance of its SSMP and efforts in reducing SSOs? Y

10.2 If yes to question 10.1, does your agency use the data collected to update SSMP program elements? Y

11 COLLECTIONS STAFFING AND TRAINING

11.1 [SSSWDR, D.9]: What is the total number of dedicated sewer maintenance crews in place at your agency? 2

11.2 [SSSWDR, D.9]: For question 11.1, how many staff are typically in each maintenance crew? 2

11.3 [SSSWDR, D.9 and D.13(iv)(d)]: Does your agency have a program in place to identify and document the core competencies/capabilities of collections staff at least on an annual basis (examples include sewer line cleaning, point repairs, video (CCTV) inspection, pump station maintenance, excavation, utility line locating, etc.)? Y

11.4 [SSSWDR, D.9]: If yes to question 11.3, does this program identify gap(s) in competencies/capabilities of collections staff? Y

11.5 [SSSWDR, E]: Does your agency require collections staff to review the SSSWDR and the agency's SSMP at least annually? Y

11.6 [SSSWDR, D.9]: Does your agency use a workforce planning/retention program to ensure adequate future collections staff? N

11.7 [SSSWDR, D.8 and D.13(iv) and (vi)]: Does your agency provide initial and recurrent training to appropriate staff [including outside contractor(s)] regarding your agency's SSO Emergency Response Plan and O&M programs? N

11.8 [SSSWDR, D.8 and D.13(iv) and (vi)]: If yes to 11.7, what is the total number of individuals trained in the past 12 months. N/A

11.9 [SSSWDR, D.8 and D.13(iv) and(vi)]: For contracted sewer services, do your contracting specifications contain specific language requiring initial and recurrent training of contractor staff regarding your agency's SSO Emergency Response Plan and O&M programs? N

12 MAJOR EQUIPMENT INVENTORY [SSSWDR, D.4, D.7, D.8, D.13(iv)]

12.1 How many combination truck(s) (hydro flush/vacuum models) are owned and/or leased by your agency? 2

12.2 For question 12.1, how many have a dedicated logbook(s) to document fieldwork activities? 2

12.3 How many hydro flusher(s) are owned and/or leased by your agency? 2

12.4 How many mechanical rodder(s) are owned and/or leased by your agency? 1

12.5 How many video (CCTV) inspection vehicle(s) are owned and/or leased by your agency? 0

12.6 How many utility truck(s) are owned and/or leased by your agency? 0

12.7 How many portable sewage pump(s) are owned and/or leased by your agency? 1

12.8 How many portable generator(s) are owned and/or leased by your agency? 0

12.9 Does your agency own equipment designed to block the storm drain system, in an emergency, to prevent untreated or partially treated wastewater from reaching surface waters? N

13 EXTERNAL COMMUNICATIONS PROGRAM

13.1 [SSSWDR, D.13(xi)]: Does your agency have a program in place for communicating on a regular basis with the public regarding the development, implementation, and performance of its SSMP? Y (TV, website)

13.2 [SSSWDR, D.13(xi)]: Does your agency have a program in place for communicating with upstream or downstream satellite sewer system(s) connected to its collection system? N/A

13.3 [SSSWDR, D.11]: Does your agency participate in responding to Underground Service Alert(s) (USA) or other similar organizations to identify and mark sewer lines? Y

13.4 [SSSWDR, D.7, D.13(iv), G, and Amended MRP]: Does your agency's communication program give the public the opportunity to provide input as your SSMP is being implemented? Y

14 NOTIFICATION, REPORTING AND RECORD KEEPING

14.1 [SSSWDR, Amended MRP B(5)]: Are all the records required in the Amended MRP, B(5) ("Record Keeping") readily available for review by the Water Boards? Y

14.2 [SSSWDR, Amended MRP, B(5)]: Does your agency maintain a list and description of all sewer-related complaints from customers for the past 5 years, including calls received after normal working hours? Y

14.3 [SSSWDR, Amended MRP, B(5)]: If yes to question 14.2, does this include information for privately owned sewer laterals? Y

14.4 [SSSWDR, G, and Amended MRP]: Does your agency have a quality assurance/quality control (QA/QC) procedure in place for review of technical information collected by field staff prior to certification of the SSO report(s) in the Water Board's online reporting system (CIWQS) by the Legally Responsible Official(s)? Y

14.5 [SSSWDR, G and Amended MRP]: Does your agency require crews to take photos of <u>all</u> SSOs? N

14.6 [SSSWDR, G and Amended MRP]: If no to question 14.5, does your agency at least require crews to take photos of SSOs that result in backups into structures? Y

14.7 [SSSWDR, G and Amended MRP]: Does your agency have a procedure(s) in place for collecting field information to assist in determining the actual SSO start time? N

14.8 [SSSWDR, G and Amended MRP]: Does your agency use SOPs to estimate SSO volume spilled, recovered and not recovered, including estimation of cleanup water used? Y

14.9 [SSSWDR, G and Amended MRP]: Does your agency regularly update initial reports given to the California Emergency Management Agency, local health department, and Regional Board as information develops regarding SSOs requiring notificati N

14.10 [Amended MRP, B.6]: Does your agency maintain water quality monitoring records as required by the Amended MRP, section B(6)? Y

15 SSO PREVENTION AND MITIGATION

15.1 [SSSWDR, D.13(ix)]: Does your agency generate SSO reduction performance metric(s) for its collection system for use in future planning? Y

15.2 [SSSWDR, D.13(ix)]: Does your agency have a program in place to conduct periodic video (CCTV) inspections of areas throughout the collection system that have never been evaluated by video (CCTV) to date? N/A

15.3 [SSSWDR, D.13(ix)]: Does your agency document meetings between O&M and source control staff, if applicable? Y

15.4 [SSSWDR, 8 and D.6]: Does your agency document meetings between O&M and engineering staff to discuss system problem areas and projects, if applicable? N/A

15.5 [SSSWDR, 8 and D.6]: Does your agency hold post-SSO briefings with collections staff, management and others involved, to evaluate root cause of SSOs and document service changes necessary to be prepared in responding to SSOs in the future? Y

15.6 [SSSWDR, 8 and D.6]: Does your agency pursue investigation of upstream satellite(s) or potential illicit dischargers as part of the SSO cause determination process? N

15.7 [SSSWDR, 8 and D.6]: Does your agency adjust sewer collection system cleaning interval(s) for problem areas based on review and analysis of each past SSO? Y

15.8 [SSSWDR, 8 and D.6]: How many of the SSOs over the past 12 months were preventable through more proactive maintenance? 27

15.9 [SSSWDR, 8 and D.6]: How many of the SSOs over the past 4 years occurred at repeat locations? 11

15 DECLARATION

I, Hye Jin Lee *, the approved Legally Responsible Official (LRO) of collection system (name and Waste Discharge ID#)* 4SSO10443 *certify under penalty of law that based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information in this Pre-Inspection Questionnaire (Version 1.0) is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine or imprisonment, for knowing violations.*

Hye J Lee

Legally Responsible Official Signature

Dec. 19, 2014

Date

ATTACHMENT 2

Whittier City Inspection Sign-In Sheet for 11/19/2014

City of Whittier

	Name	Agency	number
1.	Julia Hooten	SWRCB	916-[illegible]-6010
2.	Bryan Elder	SWRCB	916-327-8363
3.	Andrew Chi	LA RWQCB	213-576-6791
4.	Eric Magnan	U.S. EPA	415-947-4179
5.	James Fischer	SWRCB/OE	916-341-5548
6.	CAROLE KRESSIN	C of Whittier	562-567-9517
7.	Hye Jin Lee	City of Whittier	562-567-9500
8.	Howard Miller	City of Whittier	(562) 567-9558
9.	Ann Kitteridge	City of Whittier	562-567-9519

David A. Pelser Whittier Popped in to say hello afternoon joined for closing

ATTACHMENT 3

Whittier City Collection System Operational Report

California Home

Wednesday, March 25, 2015

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
STATE WATER RESOURCES CONTROL BOARD

California Integrated Water Quality System Project (CIWQS)

COLLECTION SYSTEM OPERATIONAL REPORT

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

[VIEW PRINTER FRIENDLY VERSION]

SEARCH CRITERIA: [REFINE SEARCH] [NEW SEARCH] [GLOSSARY]
Agency (**whittier**)
Date Range: Start_Date (**03/25/2014**) End_Date (**03/25/2015**)

DRILLDOWN HISTORY: [GO BACK TO LISTING OF COLLECTION SYSTEMS]
Whittier City CS
Agency: Whittier City

General Information

Region	Place ID	Place Name	CS Category	Place Address	Place County
4	631782	Whittier City CS	Municipal (Public)	3230 East Penn Whittier, CA, 90602	Los Angeles

Collection System Spill Summary

Operational Indices: Whittier City CS

Spill Rate Indice (#spills/100mi/yr)									
	Category 1			Category 2			Category 3		
	Mainlines	Laterals	Not Specified	Mainlines	Laterals	Not Specified	Mainlines	Laterals	Not Specified
Whittier City CS	14.42	N/A	0.0	0.0	N/A	0.0	6.69	N/A	0.0
State Municipal (Public) Average	4.36	N/A	2.23	2.52	N/A	0.36	8.04	N/A	3.47
Region Municipal Average	3.16	N/A	15.15	1.32	N/A	0.62	3.23	N/A	0.82

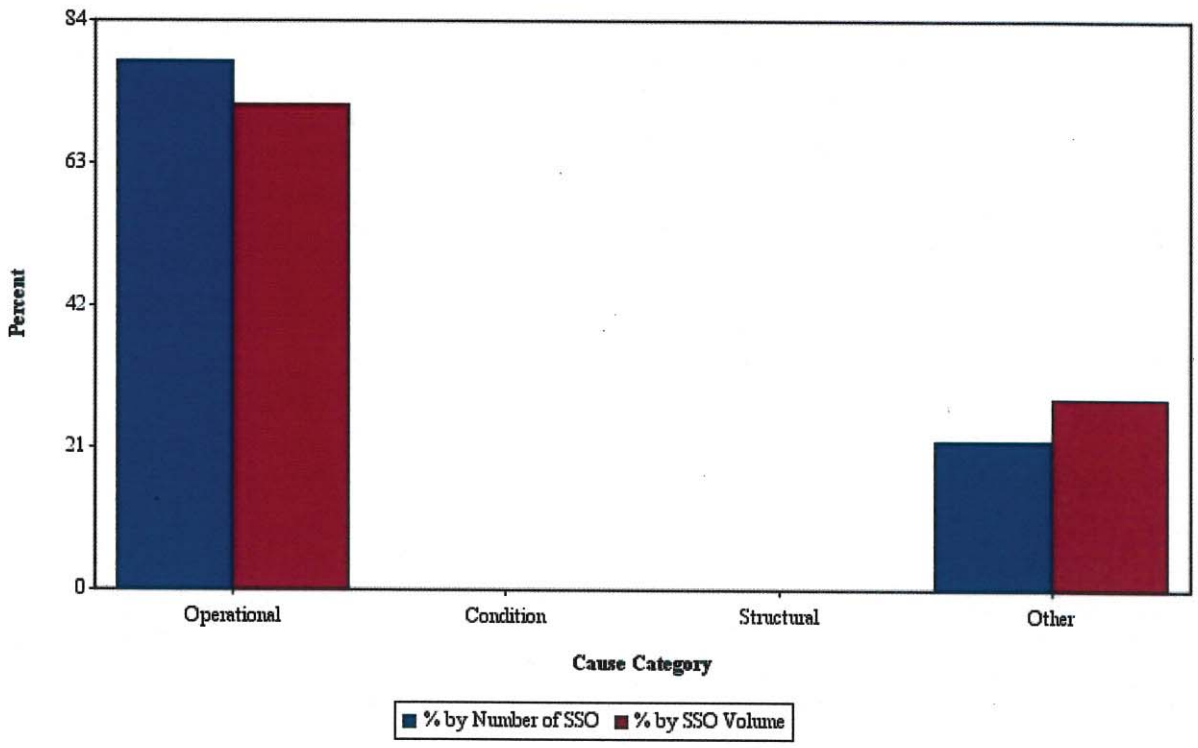
Net Volume Spills Indice (Net Vol in gallons/1000 Capita/yr)									
	Category 1			Category 2			Category 3		
	Mainlines	Laterals	Not Specified	Mainlines	Laterals	Not Specified	Mainlines	Laterals	Not Specified
Whittier City CS	155.17	N/A	0.0	0.0	N/A	0.0	11.02	N/A	0.0
State Municipal (Public) Average	1073.66	N/A	1590.24	630.78	N/A	30.88	68.48	N/A	4.05
Region Municipal Average	162.49	N/A	487.55	66.12	N/A	85.28	16.06	N/A	0.02

Note: **Click on hyperlinks to get comparison charts for CS, Region, and State grouped by 'Miles Of Pipe'.**

(1) The number of Category 1, 2 and 3 SSOs resulting from a failure in the Enrollee sewer system per 100 miles sewer system owned by the Enrollee per year.
(2) Net Volume (volume spilled minus volume recovered) of SSOs, for which the reporting Enrollee is responsible, per capita (i.e. the population served by your agency's sanitary sewer system), per year.
(3) Value calculated using miles of force mains and other pressure systems and miles of gravity sewers the agency is responsible for.
(4) Value calculated using miles of laterals the agency is responsible for (Lower Only, UpperLower). For collection systems with no lateral responsibility a N/A is shown.
(5) Value Calculated using total miles of collection system pipe the agency is responsible for.
(6) Comparison made between similar collection systems type (e.g. municipal) and lateral responsibility for the entire state over the selected time period. Comparison indices are calculated for all similar collection systems and averaged for comparison.
(7) Comparison made between similar collection systems type (e.g. Municipal) and lateral responsibility for collection systems in same region (e.g. Region 5S). Collection system indices are calculated for all similar collection systems and averaged for comparison. For airport, hospital, marinas, military, park, port, prison, school, and other collection systems facilities, only state comparison is shown.
(8) For Criteria used and term definitions refer to the SSO Glossary of Terms.

Percentage of total Number and Volume of SSOs by Spill Cause

Collection System: **Whittier City CS**



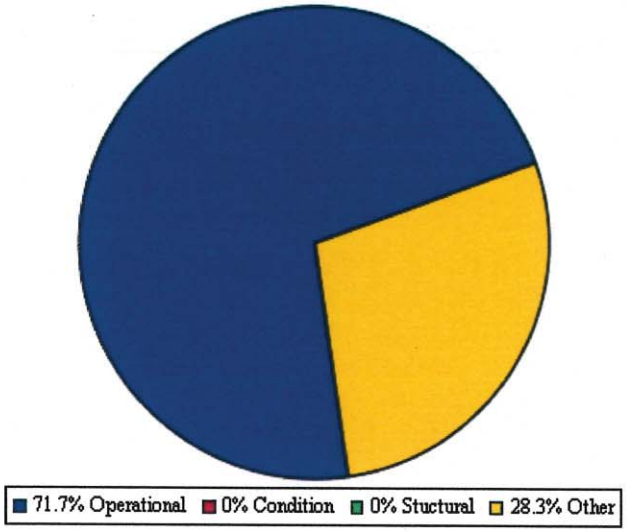
Percentage of total Volume of SSOs by Spill Cause

Operational: Debris from Construction, Debris from Lateral, Debris-General, Debris-Rags, Grease Deposition (FOG), Root Intrusion, Non - Dispersible Wipes

Condition: Flow Exceeded Capacity (Separate CS Only), Natural Disaster, Rainfall Exceeded Design, I&I (Separate CS Only)

Structural: Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure , Pipe Structural Problem/Failure, Pipe Structural Problem/Failure - Installation, Pump Station Failure-Controls, Pump Station Failure-Mechanical, Pump Station Failure-Power, Siphon Failure

Whittier City CS



Region 4

State of California

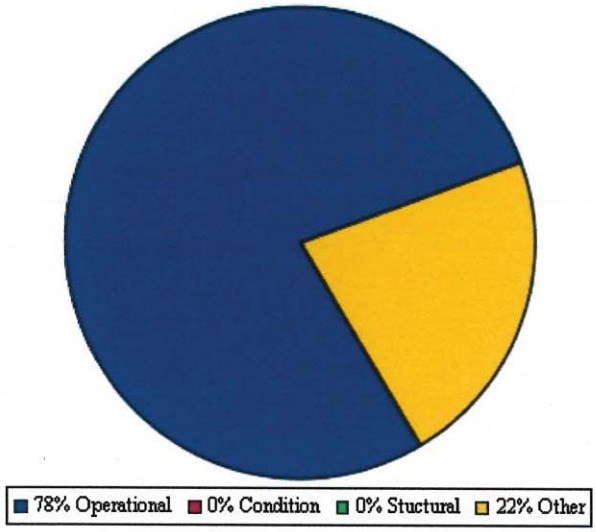
Percentage of total Number of SSOs by Spill Cause

Operational: Debris from Construction, Debris from Lateral, Debris-General, Debris-Rags, Grease Deposition (FOG), Root Intrusion, Non - Dispersible Wipes

Condition: Flow Exceeded Capacity (Separate CS Only), Natural Disaster, Rainfall Exceeded Design, I&I (Separate CS Only)

Structural: Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure , Pipe Structural Problem/Failure, Pipe Structural Problem/Failure - Installation, Pump Station Failure-Controls, Pump Station Failure-Mechanical, Pump Station Failure-Power, Siphon Failure

Whittier City CS



Region 4

State of California

Collection System Questionnaire Data(*)

Collection System Information: Whittier City CS

Status	Active
Last Updated On	2014-11-13 15:54:43.0
Population Served	87,000
Miles of Force Main	0
Miles of Gravity Sewer	194.2
Miles of Laterals	198
Portion of Laterals Responsible	none
Miles of Laterals Responsible	0
Number of Service Lateral Connection	21107
Sewer Constructed 2000 Current	1
Sewer Constructed 1980 1999	8
Sewer Constructed 1960 1979	15
Sewer Constructed 1940 1959	50
Sewer Constructed 1920 1939	21
Sewer Constructed 1900 1919	5
Sewer Constructed Before 1900	0
Inaccessible Sewer (Miles)	12
Sewer Clean Production (Miles/Yr)	280
Gravity Sewer Inspection (Miles/Yr)	0

(*) The information presented above was provided by the Enrollee in the Collection System Questionnaire. Enrollees are required to update the questionnaire

information at least once a year; therefore, the information presented above may not be the most current.

Sewer System Management Plan (SSMP) Completion (*)

SSMP Information: Whittier City CS

Task and Associated Section	Completed
Development Plan and Schedule	Yes
Section I - Goal	Yes
Section II - Organization	Yes
Section III - Legal Authority	Yes
Section IV - Operation & Maintenance Program	Yes
Section V - Design & Performance Provisions	Yes
Section VI - Overflow Emergency Response Plan	Yes
Section VII - FOG Control Program	Yes
Section VIII - System Evaluation & Capacity Assurance Plan	Yes
Section IX - Monitoring, Measurement, and Program Modifications	Yes
Section X - SSMP Program Audits	Yes
Section XI - Communication Program	Yes
Complete SSMP Implementation	Yes

(*) Under theStatewide General WDRs for Sanitary Sewer Systems, WQO No. 2006-0003 , enrollees are required to develop and implement a written Sewer system Management Plan (SSMP) and must make it publicly available. The SSMP must be approved by the deadlines in the SSMP Time Schedule presented in the Sanitary Sewer Systems WDR.

Additional Information:

- Data used for the Operational report is reported by the enrollees through the CIWQS (California Integrated Water Quality System) SSO module.
- Indices are calculated for the date range specified (default is past 4 months) and using data available since reporting was required for all enrollees as specified in the Sanitary Sewer Systems WDR. Reporting was required to begin for Regions 4,8,9 on 1/2/2007, Regions 1,2,3 on 5/2/2007, and, Regions 5,6,7 on 9/2/2007.
- Comparisons are made between similar collection systems type (e.g. Municipal), and lateral responsibility for the entire state and region. Indices are calculated for all similar collection systems and averaged for comparison.
- Category 1 and 2 spills are required to be fully certified 15 calendar days after SSO response conclusion and Category 3 spills are required to be fully certified 30 Calendar days after end of calendar month which SSO occurred. Therefore, spill records for the past approximately 60 days may be incomplete.
- Average Number of Spills per 100 miles: Measures the number of sewer overflows per 100 miles of sewer lines. Notice that these indices are strongly influenced by the length of collection system owned by the enrollee.
    - For instance, an enrollee that owns and operates a collection system of one (1) mile in length having only one (1) spill (analyzing data for ONE year) will have a Operational indice of 100.0 spills/100mi/yr. On the other hand, an enrollee that owns and operates a collection system of one hundred (100) miles in length having only one (1) spill (analyzing data for ONE year) will have a Operational indice of 1.0 spills/100mi/yr.
- Average Net Volume (volume spilled minus volume recovered) of Spills per Capita: Measures the volume in gallons of SSOs, for which the reporting Enrollee is responsible, per capita (the population served by your agency's sanitary sewer system). Where the volume recovered is greater than the volume spilled, the net volume will be considered to be zero.
- The "agency" or Enrollee listed on a SSO report is responsible for the data presented in this report and should be contacted directly for questions related to their Data.
- More information on the Sanitary Sewer Overflow Reduction program is available at: http://www.waterboards.ca.gov/water_issues/programs/sso/index.shtml

- **The Sanitary Sewer Overflows Incident Map is available at:**
  http://www.waterboards.ca.gov/water_issues/programs/sso/sso_map/sso_pub.shtml

- **The Interactive SSO report:** https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso_main

The current report was generated with data as of: Tuesday, March 24, 2015
Regional Boards are in the process of entering backlogged data.
As a result, data may be incomplete.

Back to Main Page | **Back to Top of Page**