



Scenic Pacifica
Incorporated Nov. 22, 1957

CITY OF PACIFICA

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www.cityofpacifica.org

3/11/2021

Michael Montgomery, Executive Officer
California Regional Water Quality Control Board, San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
ATTN: Jessica Watkins

Dear Mr. Montgomery,

Subject: SSMP Audit and Annual Report of Sanitary Sewer System Overflows for Calendar Year 2020

The purpose of this letter is to report on the calendar year 2020 Sanitary Sewer System Overflows (SSOs) that occurred in the City of Pacifica sanitary sewer system during the period January 1, 2020 through December 31, 2020 and provide an audit of the Sewer System Management Plan (SSMP) for the same period. This report is submitted pursuant to the requirements included in the San Francisco Bay Regional Water Quality Control Board Letter, New Requirements for Reporting Sanitary Sewer Overflows, dated November 15, 2004, the Statewide General WDR dated May 2, 2006 and the 2013 WDR update.

Number and Size of SSOs

The total number of SSOs for the reporting period was 0. The sizes of SSOs are summarized as shown on Table 1.

Table 1. Number of SSOs

Size of SSO (gallons)	Number	Percent of Total by Number
Greater than or equal to 1,000	1	33.33%
From 100 to 999	1	33.33%
From 10 to 99	1	33.34%
Less than 10 [can include in line above]	0	0%
Total	3	100%

Location of SSOs

There were no apparent trends as the 3 SSO's were located in three different parts of the city.

SSO Trends

The number of SSOs from a mainline in the City of Pacifica during 2020 was an increase from 2019.

Table 4. Mainline SSOs

Mainline SSOs	Year	2015	2016	2017	2018	2019	2020
	Annual Number	1	5	6	4	0	3

Under Part VI of the City's Consent Decree the SSO Reduction Performance Goal for 2020 was 5 and we were 2 SSOs under our goal. The goal of the Wastewater Division in 2020 was to have 0 SSOs during the calendar year and we did not achieve that goal.

Sewer System Management Plan (SSMP)

No changes or updates were needed to the SSMP in 2020. We did however review it and confirmed that last year's update was still accurate. To view the current version of the SSMP go to:

http://www.cityofpacific.org/depts/wwt/waste_water_collection/sanitarymp.asp

SSMP Audit

Goals

The goals for the Collections Division of the Wastewater Department are outlined below along with a sub-bullet describing whether it was accomplished:

1. Operate the collection system in accordance with state and federal law to minimize maintenance-related backups/overflows and to reduce wet weather inflow/infiltration
 - a. Accomplished
2. Locate points of inflow and infiltration through flow measurement/television inspection and develop improvement programs for problem areas
 - a. Accomplished
 - i. Performed CCTV activities throughout the year
 - ii. During wet-weather events we performed visual inspection of areas with known infiltration
3. Continue implementation and refinement of the CMMS and GIS map
 - a. Accomplished
4. Maintain sewer evaluation television system to comply with state regulations
 - a. Accomplished

5. Continue implementing the Long Range Sanitary Sewer Capital Plan (LRSS-CIP)
 - a. Accomplished
6. Reduce sanitary sewer overflows (SSO) to under 5
 - a. Accomplished – 3 SSOs in calendar 2020
7. Continue to implement and evaluate chemical root control program
 - a. Accomplished – 15,328 linear feet of sewer mains were chemically treated in calendar 2020.
8. Perform at least 90 miles of line cleaning activities
 - a. Accomplished – Over 95 miles were cleaned
9. Perform at least 10 miles of CCTV inspection and assessment activities
 - a. Accomplished – 10.25 miles of sewer mains were CCTV'd in calendar year 2020.
10. Continue to perform sewer main and manhole repairs identified through line cleaning and CCTV activities
 - a. Accomplished – 34 in-house repairs made in 2020
 - b. Accomplished – By contract over 2,445 feet of damaged pipe was replaced. 13 manholes were rehabilitated.

Organization

In 2019 our organizational charts and contact pages were updated to reflect current staffing.

Legal Authority

No changes were made to our legal authority and no changes were requested. On January 1, 2012 the Pacifica City Council passed an ordinance that, among many things, placed the responsibility for maintaining and upgrading individual building sewer laterals with the property owners and required a condition assessment and potential replacement of the sewer lateral at a transfer of property event, significant structure remodel, addition of drain or fixture, and a change in water services. This was our formal private sewer lateral ordinance. Staff enforced this ordinance through the year and performed 214 construction inspections of private sewer lateral replacements in 2020 many of which were replaced because of the private sewer lateral ordinance.

Overflow Emergency Response Plans (OERP)

The OERP was updated in 2014 to reflect new changes to State regulations of sanitary sewer overflows and based on some feedback from the Collections staff. DKF Solutions, the consultant that collaborated with us to produce previous OERPs, was hired to work with us in updating our current OERP. This was accomplished in March of 2014 and the crews were retrained based on the updated procedures. The crews receive an annual refresher course. We successfully used the OERP for all SSOs during the year as well.

The OERPs for the pump stations did not require any changes and none were made. These plans continue to work well for us.

Operations and Maintenance

In 2019 we added clean up and disinfecting procedures to this portion of the SSMP. We have an ongoing sewer system maintenance program in which we use a power rodding truck and a hydro-jet rod truck to clean the system based on a SSO Reduction Plan schedule.

In 2019 we adopted a new CMMS exclusively for our lift stations. The software we are using is called FIIX. This software has greatly improved our record keeping and preventive maintenance program within the lift stations.

A computerized asset management/maintenance system (CMMS) program was implemented in September of 2011 (ICOM3 by Redzone Robotics) and we continue to schedule our maintenance and repair activities through the program. The SSO Reduction Plan was developed for the Division by RMC Engineering and the information from this plan was incorporated in the CMMS. The data that is aggregated in the CMMS from line cleaning activities and CCTV activities are used to update the scheduled cleaning of the system and schedule any needed repairs. In 2020 Division staff cleaned approximately 95 miles of main lines using a mechanical power rodder (40.2 miles) and a hydro-jetter (55.3 miles). The Training Program identifies as performance metrics an average of six set-ups for a workday of power rodding and 10 set-ups with the hydro-jetter. A review of our performance data shows that we averaged in 2020 a little over five set-ups with the power rodder and 9 set-ups with our hydro-jetting units.

The Division has a CCTV in-house inspection program to identify sources of potential SSOs and infiltration and inflow and in 2020 approximately 10.25 miles of sewer mains were televised and inspected.

An inspection and assessment of our wastewater force mains was completed in 2014 under the project management of Brown and Caldwell. The inspection and assessment showed the various pipe types of the force mains to be in satisfactory condition and the report is available upon request.

The Division has a regular sewer repair crew that performs spot repairs of main lines identified as category four or five defects through CCTV and maintenance activities, and in some cases replaces whole pipe segments of the system. These in house repairs also represent manhole repairs. In 2020 the Division performed 34 repairs and main line replacements with this in-house crew. Our staff also responded to 41 private residents service calls in 2020. In addition to our in house repairs we issued to a pipeline replacement contract in 2020 which included the replacement 2,445 feet of pipe. This project consisted of replacing a root intruded VCP main line with HDPE pipe and the complete rehab and sealing of all 13 manholes within the easement.

We continued with our root foaming program using Duke's Root Control, Inc. Approximately 2.9 miles of main lines were identified from our CMMS data and CCTV inspections as having major root intrusion issues and Duke's was contracted to root foam those pipe segments. We performed quality control CCTV activities of most of the pipe segments that were root foamed over the last few years. We observed inhibited root growth in many of the pipe segments and the ones that did not appear to have been inhibited we had Duke's Root Control come back and perform a re-treatment. Approximately 95% of the pipe segments did not require re-treatment and appeared to have the root growth inhibited in a satisfactory manner.

The Division's training program continues to be a success with the CWEA training, regular bi-weekly safety training and weekly crew meetings. We will continue to receive training with Tilson & Associates (T&A). We will be reviewing and re-training on our customized standard operating procedures (SOPs) for the rod truck, sewer combination cleaner trucks, CCTV vehicle, and emergency response truck along with SSO calculation.

Design and Construction Standards

No changes were made to our design and construction standards and no changes were requested.

Fats, Oils, and Grease (FOG) Program

Staff continues to administer a FOG and Source Control Program in which we inspect the food establishments and FOG producers in Pacifica approximately 3 times a year. There are 73 FSE's and in 2020 we accomplished 105 inspections. 2020 seen a significant decrease in FSE inspections due to the fact that most restaurants were shut down because of Covid-19. Two employees administer this program and they work with local businesses to identify areas of non-compliance with our ordinances and will require upgrades where needed. Any establishments out of compliance are given a formal letter requiring them to become compliant or face enforcement action. In addition to issuing noncompliance letters our staff has now been authorized to issue monetary citations. We did not issue any citations during the year. We are now seeing near perfect compliance.

System Evaluation and Capacity Assurance Plan

Capital Plan and Master Plan Implementation

A copy of our updated LRSS-CIP is included with this report. The LRSS-CIP update included any additional condition assessment information from the CMMS and CCTV activities that had not been completed at the time the original LRSS-CIP was put together. The major projects completed in 2020 were the completion of the root intruded Gypsy Hill easement.

Monitoring, Measurement, and Program Modifications

We continually perform these functions and make modifications to our programs when deficiencies are identified. This report is the formal summary of the ways in which we monitor and measure performance and the actual and potential program modifications based on our performance.

SSMP Audits

During 2020 we evaluated our SSMP and no changes were needed. Our SSMP was updated in 2019.

Communication

No changes were made to our Communication program. In 2020 we had numerous public outreach meetings regarding FOG reduction. These meetings included senior living facilities, public gatherings and festivals and also school tours and presentations. In addition to these accomplishments we have developed and published four informational videos on what not to flush. These videos include both a commercial and a residential FOG presentation, a pharmaceutical presentation along with a "flushable wipes" video. All of these videos are available to the public on the City's website. See

https://www.cityofpacifica.org/depts/pw/wwt/outreach_videos/default.asp

Certification

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system,

or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in blue ink that reads "Rey Mendez". The signature is written in a cursive style with a long horizontal stroke at the end.

Rey Mendez

Collections Assistant Superintendent, City of Pacifica