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OFFICE OF THE CITY CLERK
OAKLAND

2019 NOV 21 PM 4:10

AGENDA REPORT

TO: Sabrina B. Landreth
City Administrator

FROM: Jason Mitchell
Director OPW

SUBJECT: Receive The Annual Informational
Report On The Status Of The City's
Compliance With The Federal Sewer
Consent Decree (CD) Requirements

DATE: November 8, 2019

City Administrator Approval

Date:

11/21/19

RECOMMENDATION

Staff Recommends That The City Council Receive An Annual Informational Report On The Status Of The City's Compliance With The Federal Sewer Consent Decree (CD) Requirements

EXECUTIVE SUMMARY

At the request of Councilmember Kalb, staff has prepared this report to summarize the Fiscal Year (FY) 2019 Sewer Collection System Consent Decree Annual Report. This report will also provide the status of the City's compliance with the federal Sewer Consent Decree requirements.

BACKGROUND / LEGISLATIVE HISTORY

City of Oakland Sewer System

The City of Oakland owns and operates a sanitary sewage collection system that serves approximately 400,000 residents within the City. The collection system includes approximately 934 miles of gravity main, less than one mile of pressure force main, and seven sewage pump stations. There are approximately 102,000 private lateral sewer connections to the collection system. Some of the City's first sanitary sewer pipes were installed around 1852 (166 years ago) when Oakland was incorporated as a town.

Item: _____
Public Works Committee
December 3, 2019

Sewer Consent Decree

Negotiations among the cities and districts, state and federal regulators, and local environmental groups have resulted in a Sewer Consent Decree that was finalized on September 22, 2014. This settlement gives the Defendants (East Bay Municipal Utility District (EBMUD) and the seven Satellite Agencies to include the Cities of Alameda, Albany, Berkeley, Emeryville, Oakland, Piedmont, and Stege Sanitary District) until 2036 to repair and replace sewer lines, reduce the amount of inflow and infiltration and reduce discharges into San Francisco Bay during heavy storms and reduce sanitary sewer overflows. The City and each separate entity must submit an annual progress report (Annual Report) by September 30th of each year to the regulatory agencies and the plaintiff local groups.

Per the Consent Decree EBMUD must perform mid-course check-in Wet-Weather Facilities (WWF) output tests of all three WWFs in 2022 and 2030. If the collective activities of all the Defendants do not yield the predicted progress towards slowing flows to the WWFs by the check-in periods of 2022 and 2030, a strategic Performance Evaluation Plan (PEP) would need to be developed and implemented.

Additionally, EBMUD must submit a Revised Work Plan (RWP). The RWP provisions of the Consent Decree shall apply only in the event the Defendants are obligated under this Consent Decree to implement the approved PEP. The Defendants would need to submit a single RWP signed on behalf of all Defendants.

The EPA 2014 Consent Decree can be found on the City's website through the following link:
<https://www.oaklandca.gov/documents/epa-2014-consent-decree>

Sewer Consent Decree Annual Reports

Since the Consent Decree's final approval in 2014, the City has submitted the required Annual Reports to Environmental Protection Agency (EPA), Regional Water Quality Control Board (RWQCB), and United States Department of Justice. The City of Oakland submitted the Fiscal Year (FY) 2019 Consent Decree Annual Report by the due date of September 30, 2019. This report summarizes the FY 2019 work plan and provides the status of the City's compliance with the Consent Decree requirements.

Previous Annual Reports have been summarized in a Sewer Information Report presented at the April 24, 2018 Public Works Committee meeting. The staff report can be found on the City's website through the following

link: <https://oakland.legistar.com/LegislationDetail.aspx?ID=3477088&GUID=C2ED6888-8808-4713-9167-4F245DFF910C&Options=&Search=>

ANALYSIS AND POLICY ALTERNATIVES

I. General

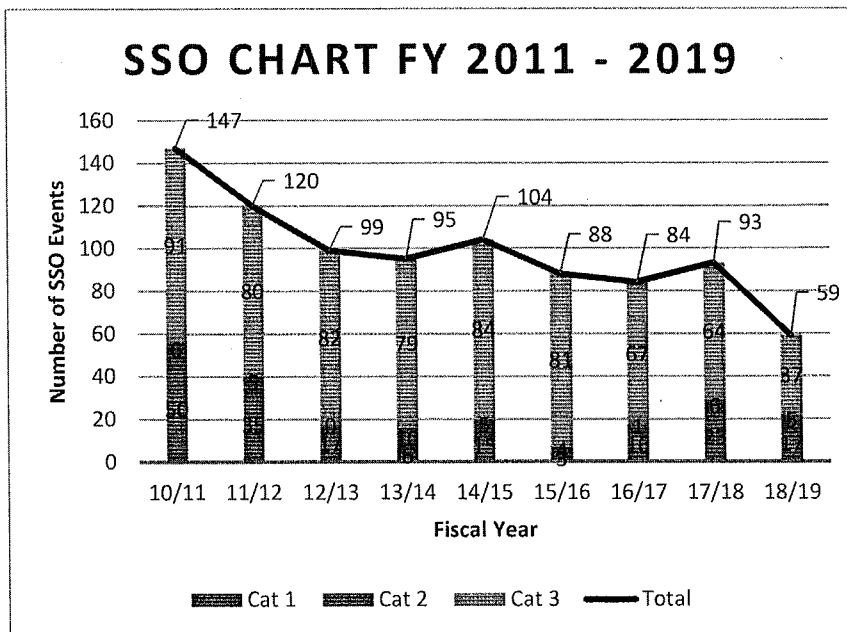
The purpose of the CD is to facilitate the City of Oakland’s (City) legally binding obligation to reduce inflow and infiltration that contributes to discharges from East Bay Municipal Utility District’s (EBMUD) Oakport and San Antonio Wet-Weather Facilities, and reduce the amount of sanitary sewer overflows that result in discharge to Waters of the United States. The City of Oakland has met, and in some cases exceeded, the annual operation, maintenance, repair, and rehabilitation requirements as stipulated in the CD.

II. Sanitary Sewer Overflows (SSOs)

The City has seen a significant decline in the number of sanitary sewer overflows during FY 2018-19. A total of fifty-nine (59) SSO events were recorded; a 37% reduction from the previous reporting period. Of these reported events, seventeen (17) were classified as Category 1 spills (spills discharged into a waterway or surrounding water body), three of which resulted in spills of greater than 10,000 gallons.

The total volume spilled in FY 2018-19 was 106,314 gallons, representing a 21% decrease in volume compared to the previous fiscal year. Of the total amount spilled, 14.99% was contained and returned to the system. The total volume that reached surface water was 82,109 gallons; a 16.01% volume reduction for spills that reached surface water from the previous fiscal year. The following graph shows a descending trend of SSOs.

Figure 1 SSO Trend



Cat 1 – Reached US Water
 Cat 2 – 1,000 gallons or greater not reached US Water
 Cat 3 – All other discharges of untreated or partially treated

It should be noted that neither the US EPA nor the State Water Resources Control Board's water policy differentiate between preventable and unpreventable sewer overflows. Each instance of sewer overflow reaching Waters of the United States is subject to penalty. Penalties range from informal enforcement (i.e., Notice of Violation) to formal enforcement action (i.e., Stipulated Order or Consent Decree). Under the current Consent Decree, the City has negotiated a penalty fee schedule as follows:

Penalty per SSO for SSOs totaling:		
Less than 1,000 gallons	1,000 – 9,999 gallons	10,000 gallons or more
\$200	\$1,000	\$25,000

The total potential assessed stipulated penalty for FY 2019 SSOs that reached Waters of the United States is \$79,400. In the Annual Report, the City requests that stipulated penalties be waived. The spills occurred due to non-point source fat, oil, grease (FOG), and debris loading, and several occurred during heavy wet-weather events. Additionally, the City has been reducing the number of SSOs and sewage discharge over the course of the Consent Decree, and moving in the right direction.

III. Asset Management Implementation Plan (AMIP)/Sanitary Sewer Management Plan (SSMP)

The City partnered with a panel of subject matter experts in the fields of wastewater regulatory compliance, design and construction of wastewater collection systems, and operation, maintenance, and repair of underground utilities, to perform a review and analysis of its asset management program. The City identified ten (10) high-priority actions to improve the overall effectiveness of its wastewater programs, six (6) of which involve improvements to the implementation of the asset management plan directly.

The City completed a five-year update and revision to the AMIP/SSMP and will submit it to the State Water Resources Control Board pending City Council approval in December of 2019.

IV. Summary of Infiltration and Inflow Reduction and SSO Reduction Work

The Annual Report highlights and summarizes work performed for which Oakland is held responsible for by the Sewer Consent Decree. A detailed summary of the FY 2019 Annual Report is shown in **Attachment A**. The submitted FY 2019 Annual Report is in **Attachment B**.

The cumulative sanitary sewer pipeline rehabilitation work is well ahead of schedule. The cleaning, inspection, and root foam programs are also ahead of schedule. The following listing summarizes the requirements and progress by the City:

Item	Consent Decree Requirement	FY 2019 Annual Report Update
A	Rehabilitate an average of 13 miles of sewer pipes per year	The City rehabilitated 8.8 miles in FY 2019. The City is ahead of schedule by an aggregate of 14 miles.
B	Complete cleaning of unique 184 miles each fiscal year	The City cleaned 189 miles, exceeded the requirement.
C	Inspect entire sewer system on a 10-year cycle	The City inspected and assessed cumulatively 540 miles using Closed-Circuit Television (CCTV), exceeded the requirement.
D	Root foam 50 miles of sewer pipes per year	The City root foamed cumulatively 313 miles, exceeded the requirement.
E	Renovate all 7 sewer pump stations by 2022	The City completed renovation of 4 pump stations. 3 pump stations are planned for rehabilitation in 2020. The City is on schedule.
F	Eliminate high priority storm water inflow sources and infiltration within 2 years wherever found	2 public high priority sources were identified in FY 2018. The City plans to repair the 2 sources by end of FY 2020.
G	Repair acute defects in pipes within one year	19 acute defects found in FY 2017-18 were repaired in FY 2018-19. No acute defects were found in FY 2018-19.
H	Maintain a list of 'hot spots' and clean annually for at least 3 years	The City maintains a 'hot spot' cleaning list for pipes that are cleaned on a 3-month; 6-month; or 12-month frequency every year until these locations are removed from the list.
I	Require private sewer Lateral (PSL) rehabilitation	Initiated program in 2012.
J	Report defective sewer laterals owned by Local, State, or federal entities to EPA	None were found to-date.

K	Rehabilitate sewer laterals owned by the City within 10 years at targeted locations	95 City facilities were identified in the Consent Decree. 46 City-owned sewer laterals have been inspected and completed. The remaining facilities are on track.
L	Notify owners of private defective sewer laterals within 90 days	All 76 private defective sewer laterals identified have been notified within 90 days.
M	Assist EBMUD in development of sewer lateral education program	The City continues to work with EBMUD in the Regional Private Sewer Lateral Program.
N	Implement a fat, oil, and grease (FOG) Control Program	19 SSOs were estimated to be associated with FOG. These locations were referred to EBMUD for investigation. This is a 27% reduction from last fiscal year.
O	Monitor water level for capacity assurance in Maintenance Holes at 12 designated locations	3 locations for capacity upgrades were completed in FY 2018-19. One additional location is planned for a capacity upgrade in Spring of 2020. No capacity-related SSOs were reported in FY 2018-19

V. I/I Reductions Demonstrated by the City and Satellites

The “2017/2018 Flow Model Calibration, Wet Weather Facilities (WWF) Output Ratios and Output Test Results” submitted to the EPA by EBMUD provides a fourth-year data point.

Output Ratio

The baseline condition model was calibrated using flow data from the FY 2010 and FY 2011 Wet Seasons, and its purpose was to establish a baseline to evaluate future discharge volume reductions over time. In the baseline model run, the predicted volume of discharge for the storm event at each WWF is known as the Baseline WWF Output. This comparison of the annually calculated discharge volumes to the Baseline WWF Output is referred to as the Output Ratio. A zero percentage of Output Ratios from each of the WWF are the end goals of the consent decree. The San Antonio Creek (SAC), Point Isabel (PI), and Oakport (OAK) WWFs must meet that requirement by the end of calendar years 2028, 2034, and 2036, respectively. The City of Oakland, City of Piedmont, and City of Alameda contribute to SAC WWF. The City of Oakland contributes to OAK WWF. Stege Sanitary District (the City of El Cerrito, Kensington, and Richmond Annex), the City of Emeryville, City of Berkeley, and City of Albany contribute to PI WWF.

Below is a table showing the last status update of the infiltration and inflow (I/I) reductions of each WWF from EBMUD’s “2017/2018 Flow Model Calibration, WWF Output Ratios and Output Test Results”. FY 2019 updates will be provided by EBMUD by the end of the calendar year 2019.

Table ES-2 Computed WWF Output Ratios

Facility	Output Ratios					CD Benchmarks		
	FY16	FY17	FY18	Three-Year-Average	FY18 Target ¹	2022	2030	Final Compliance
PI WWF	107%	97%	97%	100%	70%	53%	18%	0% by 2034
OAK WWF	73%	86%	77%	79%	78%	65%	31%	0% by 2036
SAC WWF	66%	86%	82%	78%	64%	43%	-- ²	0% by 2028

¹ FY18 target Output Ratio is estimated based on a straight-line interpolation from the Baseline WWF Output Ratio and the 2022 Mid-Course Check-In Benchmark Output Ratio.

² The compliance date for SAC WWF precedes 2030.

The FY 2018 three-year-average output ratio of both the OAK WWF and SAC WWF, 79% and 78% respectively, show that the I/I reductions are at risk of not meeting the First Mid-Course Check-In in 2022.

The FY 2018 three-year-average output ratio, 100%, of PI WWF show that the I/I reductions are at risk of not meeting the First Mid-Course Check-In in 2022.

Discharge Volume Reductions

As a secondary assessment of the effect of rehabilitation work in reducing discharge volumes from the EBMUD Interceptor System service area, a systemwide volume ratio was computed.

FY 2019 three-year average volume ratio indicates the I/I reductions are on pace with expected performance. Systemwide, a 9% reduction in total discharge volume has been calculated, exceeding the expected reduction of 6%. The total systemwide reduction demonstrates that the rehabilitative and private sewer lateral work performed within the regional wastewater collection system is removing I/I.

Proportional Share of I/I Reductions

According to EPA, the share of I/I reductions are as follows:

- Private Sewer Lateral (PSL) Program 60%, 300 million gallons per day (mgd)
- Satellite Sewer Rehabilitation 25%, 125 mgd
- Inflows from Regional Technical Support Program (RTSP) 15%, 75 mgd

Collaboration

Although the City of Oakland and Satellites are meeting the Consent Decree annual requirements overall, meeting the I&I reduction targets would require further improvements. The Defendants, EPA, and RWQCB are working together to continue monitoring the I&I reduction performance and create alternative work plans if necessary.

VI. Capital Improvement Program

Sewer Rehabilitation/Sewer Capacity Assurance and Pipe Upgrades

The Sewer Capital Improvement Program (CIP) address two objectives: 1) I/I correction; and 2) emergency and major defect repair/rehabilitation. As part of the Sewer Consent Decree, the CIP Program prioritizes sewer main rehabilitation located within targeted sub-basins identified to have high rainfall-dependent infiltrations factors and high peaking factors. It is the City's goal to have 300 miles of sewer main rehabilitation completed by the end of the 22-year Sewer Consent Decree.

As reported in the FY 2019 Annual Report, the City has rehabilitated cumulatively 85.3 miles, exceeding the requirement of 71.0 miles. Ancillary sewer structures are also rehabilitated, when needed, as part of these projects. Lower private sewer laterals are typically rehabilitated as well, with the exception of laterals located in private easements. The City grants a waiver for lower lateral work for those seeking a PSL Certificate.

Sanitary Sewer Master Plan

The City has plans to develop a master plan that not only meets the Sewer Consent Decree requirements but also provides a comprehensive strategy to address deficiencies of the entire sewer network. The City has chosen a consultant to work on the sanitary sewer master plan. A separate staff report will be delivered on the same date of this informational report. Staff recommends approval to enter into a professional services agreement with the selected consultant, and to begin the work on the Sanitary Sewer Master Plan. The duration of the project will be approximately two years.

Capacity Monitoring Program

The CIP Program also includes capacity assurance monitoring on 12 targeted maintenance hole locations. In the event that the City determines that the water level at any of the locations reaches within one foot of the rim due to lack of capacity, except during a rain event that is greater than the December 5, 1952 Storm, the City would have 24 months to implement improvements by upsizing the associated sewer mains.

In FY 2019 the City experienced three locations that have had high water levels. All three did not have any SSOs and were considered non-capacity related. To date, construction to upgrade capacity for all locations with high water levels detected caused by the lack of capacity has been completed.

The following are construction updates and monitoring progress of the 12 locations:

- I. San Pablo at 60th Street – Construction completed on January 19, 2018
- II. San Pablo at 62nd Street – Construction completed on January 22, 2018
- III. Stanford Avenue at Gaskill Street – High level water not reached
- IV. 27th Street at Vernon Street – High level water not reached
- V. Harrison Street at 27th Avenue - High level water not reached
- VI. Grand Avenue at Harrison Street – Construction completed November 17, 2017
- VII. 19th Street at Jackson Street - High level water not reached
- VIII. Park Boulevard at Spruce Street – Construction Completed on March 26, 2019
- IX. 18th Avenue at 4th Avenue – Construction Completed on December 11, 2017
- X. Maybelle Avenue at Masterson Street - Phase I Construction completed on September 22, 2017. Phase II construction completed on May 28, 2019
- XI. 76th Avenue at Garfield Avenue - High level water not reached
- XII. Trestle Glen at Creed Road – Construction Completed on December 13, 2018

Pump Stations

The City's collection system has 7 pump stations that require renovation by 2022. Four pump stations have been completed and three are planned to begin in FY 2021. The following is the status of each pump station:

- Denton Place – Construction in FY 2021
- Fallon Street – Renovation completed in 2018
- Hegenberger Road – Renovation completed in 2018
- Parkridge Drive – Construction in FY 2021
- Tidewater Avenue – Renovation completed in 2012
- Shepherd Canyon Road – Renovation completed in 2018
- Skyline Blvd - Construction in FY 2021

Root Foaming

The CIP Program manages root foam contracts in which 50 miles of root foaming are required each year by the Sewer Consent Decree. The City has been meeting the targets each year. In FY 2019 the City root foamed 61.4 miles. The Root Foam Program chemically treats sewer mains that are filled with excessive roots. The minimum amount of sewer mains root foamed may be reduced as lines are rehabilitated or CCTV assessment indicated there are no longer excessive roots requiring treatment.

City Facility Sewer Laterals

On June of 2016 the City awarded two on-call construction contracts with two Contractors to inspect and where necessary, repair or rehabilitate defective City-owned Sewer Laterals of 95 City facilities identified in the Consent Decree. In FY 2019, the City has inspected and completed 46 Sewer Laterals Rehabilitation locations. The City expects to complete the inspection and repair of City-owned Sewer Laterals well ahead of the September 21, 2024

completion date specified in the Consent Decree. Locations are provided in Appendix D, pages 52-58 of the FY 2019 Annual Report in **Attachment A**.

Private Sewer Lateral Program

On July 6, 2010, City Council adopted Ordinance No. 13026 C.M.S. to adopt East Bay Municipal Utility District's (EBMUD) Private Sewer Lateral Regional (PSL) Ordinance to establish requirements for property owners to inspect and certify private sewer laterals at the time of property transfer, major remodel, or change in water service.

Oakland expanded the PSL program on January 16, 2012, in collaboration with the EPA Mandated Regional PSL Program administered by EBMUD.

The City requires that persons seeking building permits that require certificates of occupancy for construction or remodeling exceeding \$100,000 test and, where necessary, replace defective private sewer laterals and obtain Compliance Certificates from EBMUD before being issued certificates of occupancy. Public Works coordinates with the Planning and Building Department for the annual reporting to ensure that building permits are not finalized prior to the applicant of receiving a Compliance Certificate from EBMUD.

In FY 2019, 446 permits were finalized with Compliance Certificates. 21 permits were finalized without Compliance Certificates. The City has met the requirements of no more than 25 permits without Compliance Certificates.

In collaboration with City sewer maintenance and EBMUD, the PSL Program sends Notice To Abate letters to homeowners with defective sewer laterals attributable to infiltration and cross connections attributable to inflow. Defective sewer laterals are found from City sewer maintenance and EBMUD's smoke test program. Cross connections are found through dye testing and smoke testing from EBMUD. EBMUD provides the City by September 30th of each year an Annual Satellite Notification in which the City determines high priority locations and provides a formal response to EBMUD and EPA by the end of each calendar year.

During FY 2019 City crews identified 76 defective Sewer Laterals and all owners have been notified within 90 days.

VII. Fund 3100: Sewer Service Fund

In accordance with the City Charter, the Sewer Service fund is used for the construction and maintenance of the City's sanitary sewer infrastructure. This use includes all the mandates placed on the City by the EPA 2014 Consent Decree to address Sanitary Sewer Overflows and to reduce Infiltration and Inflow of stormwater into the sewer system. The table below outlines the recent FY 2019 Adopted Budget for the appropriation of Fund 3100 and outlines how the Sewer Fund is distributed and for what purpose.

FY 2019 Adopted Budget for Fund 3100

<u>Department</u>	<u>Appropriation</u>	<u>Percentage</u>	<u>Purpose of Funding</u>
City Attorney	847,694	1%	Representation for CD and Litigation
Finance Department	2,336,155	3%	Fee to EBMUD for collection
Fire Department	388,355	1%	Emergency Call Dispatcher
Oakland Public Works	33,728,133	50%	Sewer and Storm Maintenance Storm Maintenance and Street
Depart. of Transportation	3,180,613	5%	Repair after Sewer work
Information Technology	242,657	0.4%	GIS personnel for CD reporting
Non-Departmental and Port	9,596,409	14%	Debt Service and Franchise Fee
OPW Capital Improv.	<u>16,514,700</u>	25%	Sewer Design & Rehabilitation
Grand Total	\$66,834,716		

Summary

Over the past fiscal year, the City has made considerable efforts to improve its wastewater programs. Those efforts included an extensive evaluation of the entire wastewater program by an independent consortium of wastewater compliance experts, the addition of key personnel to provide oversight and facilitation of compliance with the CD and other wastewater regulations, and in-depth training and field exercises for operational staff in areas of critical concern. As a result of these efforts, the cumulative sewer rehabilitation work remained significantly ahead of schedule, sanitary sewer overflows significantly declined, and City personnel logged nearly twenty (20) hours per capita of SSO response training. In addition, the City's sewer budget, staffing, and tool and equipment inventory have increased over the year.

The City continues to work with East Bay Municipal Utility District (EBMUD) and the East Bay wastewater collection agencies (Satellites) to meet the goals of the Consent Decree. The Environmental Protection Agency and Regional Water Quality Control Board have been in good communication working together to significantly improve the aging sewer infrastructure and protect the San Francisco Bay for a cleaner and healthier environment.

FISCAL IMPACT

No fiscal impacts are associated with this informational report.

PUBLIC OUTREACH / INTEREST

This item did not require public outreach other than the required posting on the City's website.

Item: _____
Public Works Committee
December 3, 2019

COORDINATION

This report developed in coordination with:

- Oakland Public Works – Bureau of Infrastructure and Operations
- Oakland Public Works – Bureau of Design and Construction

In addition, the following offices have reviewed this report:

- Office of the City Attorney
- City Budget Bureau

SUSTAINABLE OPPORTUNITIES

Economic: Although the informational report has no direct economic opportunities, the continued efforts of maintaining the sanitary sewer infrastructure delivers an essential sewer service for residents and businesses.

Environmental: Although the informational report has no direct benefit to the environment, the report provides information on regulatory requirements and compliance to a long-term plan to eliminate wastewater discharges and overflows to the bay.

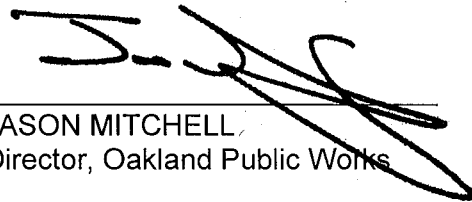
Race & Equity: Although the informational report has no direct benefit to social equity, the Sanitary Sewer Program strives to eliminate wastewater discharges and overflows to the bay, thereby, benefiting all Oakland residents.

ACTION REQUESTED OF THE CITY COUNCIL

Receive an Informational Report to summarize the Fiscal Year (FY) 2019 Sewer Collection System Consent Decree Annual Report. This report will also provide the status of the City's compliance with the federal Sewer Consent Decree requirements.

For questions regarding this report, please contact MATT LEE, ACTING ASSISTANT DIRECTOR at (510) 238-7039.

Respectfully submitted,



A handwritten signature in black ink, appearing to read 'J. Mitchell', is written over a horizontal line.

JASON MITCHELL
Director, Oakland Public Works

Reviewed by:
Matthew Lee, Acting Assistant Director

Reviewed by:
Tom Morgan, Agency Administrative Manager

Prepared by:
Jimmy Mach, Principal Civil Engineer

Attachments (2):

- A: Annual Report Summary
- B: Consent Decree Annual Report FY 2019

Attachment A

Annual Reports FY18-19 Summary

The Annual Reports summarize work performed for which Oakland is responsible for in the following:

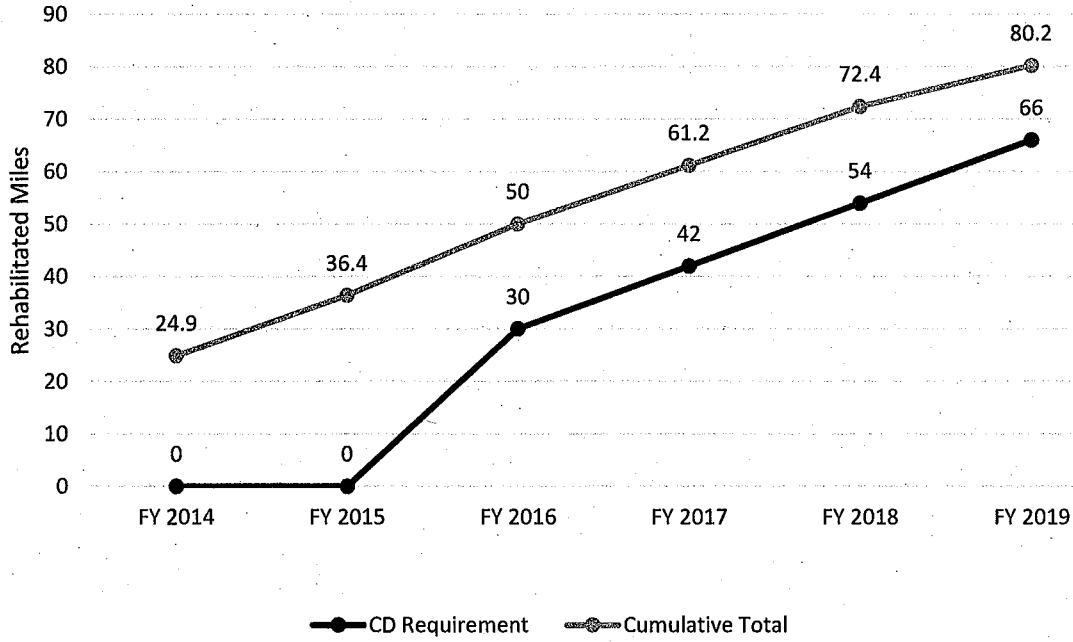
- A. Rehabilitate sewer mains in targeted subbasins and Citywide
- B. Clean the entire sewer system by 2018 and 180 miles per year thereafter
- C. Inspect no less than 92 miles of total footage of sewer pipes per year
- D. Root foam 50 miles of sewer pipes per year
- E. Renovate all 7 sewer pump stations by 2022
- F. Eliminate high priority storm water inflow and infiltration sources within 2 years wherever found
- G. Repair acute defects in pipes within one year
- H. Inspect and clean sewer hot spots annually for at least 3 years
- I. Require private sewer Lateral (PSL) rehabilitation (initiated in 2012)
- J. Report defective sewer laterals owned by Local, State, or federal entities to EPA
- K. Rehabilitate sewer laterals owned by the City within 10 years at targeted locations
- L. Notify owners of private defective sewer laterals within 90 days
- M. Assist EBMUD in development of sewer lateral education program
- N. Implement a fat, oil, and grease control program
- O. Monitor water level for capacity assurance in Maintenance Holes at 12 designated locations

- A. As of June 30, 2019, the City of Oakland has rehabilitated 423,342 feet (80.2 miles) of Sewer Main in targeted subbasins. This exceeds the CD requirement to rehabilitate 348,480 feet (66 miles) by June 30, 2019.

The City of Oakland has rehabilitated 26,696 feet (5.1 miles) of Sewer Main Citywide. This exceeds the CD requirement to rehabilitate 26,400 feet (5 miles) by June 30, 2019.

Below is a graph of the progress of sewer main rehabilitation since the beginning of the Consent Decree. The City's Sewer Main Rehabilitation Program is ahead of schedule as shown in the graphs and Table 4-1 and Table 4-4.

Sewer Main Rehabilitation (in Targeted Subbasins) Progress (miles)



Sewer Main Rehabilitation (Citywide) Progress (miles)

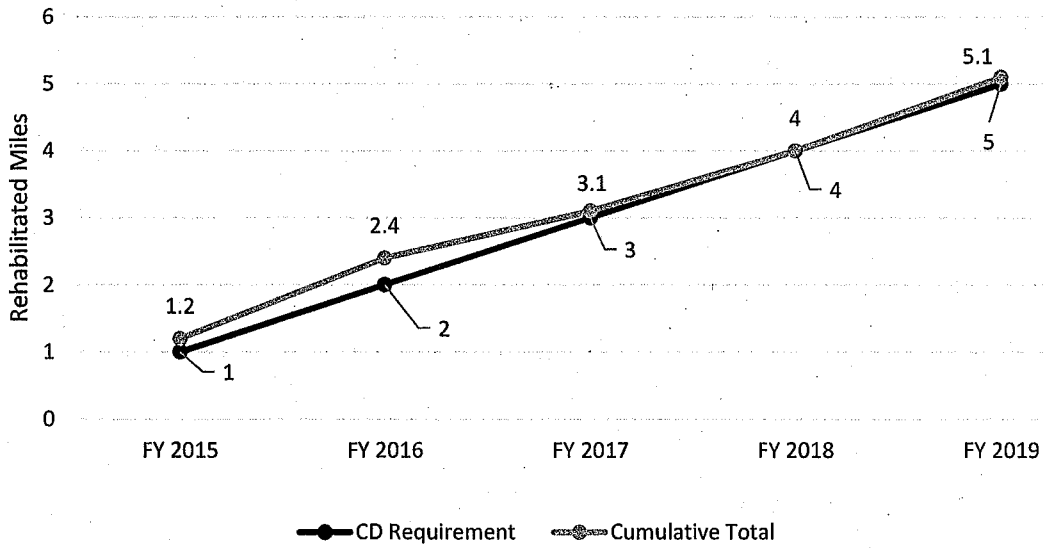


Table 4-1
Length of Rehabilitated Sewer Mains In Targeted Subbasins

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement **
FY 2018-19	40,995' (7.8 miles)	423,342' (80.2 miles)	348,480 (66 miles)

Table 4-4
Sewer Mains Rehabilitated Citywide

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement
FY 2018-19	5,506 (1.1 miles) ***	26,696' (5.1 miles)	26,400 (5 miles)

B. The City have completed the last 5-year cleaning cycle on time. As shown in Table 5-3a, in FY2018-19, 998,933 unique feet (189 miles) of Sewer Main were cleaned, which exceeds the CD requirement of 971,520 unique feet (184 miles).

Table 5-3a
Feet of Sewer Main Cleaned (Unique Feet)

Fiscal Year	Mains Cleaned*	Cumulative Total**	CD Requirement
FY2018-19	998,933' (189 miles)	998,933' (189 miles)	971,520' (184 miles)

C. As shown in Table 4-3, 2,851,200 feet (540 miles) of sewer mains have been inspected and assessed using CCTV inspection. This exceeds the CD requirement to inspect 2,671,680 feet by June 30, 2019. Below is a graph of the progress of sewer main assessment and inspection since the beginning of the Consent Decree. The City's Sewer Main Condition Assessment Program is ahead of schedule as shown in the graph and Table 4-3 below.

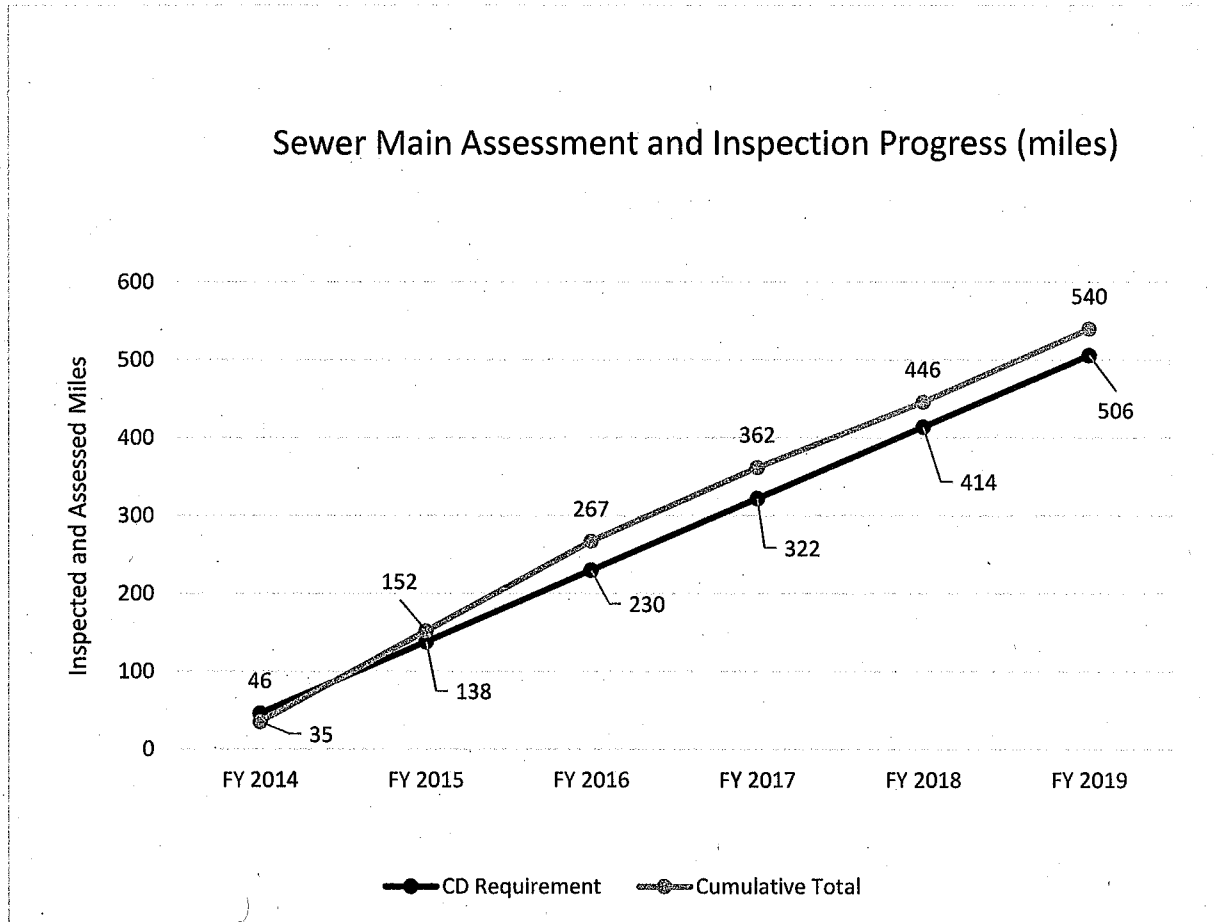


Table 4-3
Length of Sewer Mains Inspected and Assessed

Fiscal Year	Mains Assessed **	Cumulative Total ***	CD Requirement
FY 2018-19	495,639' (94 miles)	2,851,200' (540 miles)	2,671,680' (506 miles)

D. As of June 30, 2019, the City had root foamed 1,651,849 feet (312.9 miles) of Sewer Mains, which exceeds the CD requirement of 1,584,000 feet (300 miles). The City's Root Control Program is ahead of schedule as shown in the graph and Table 5-4 below.

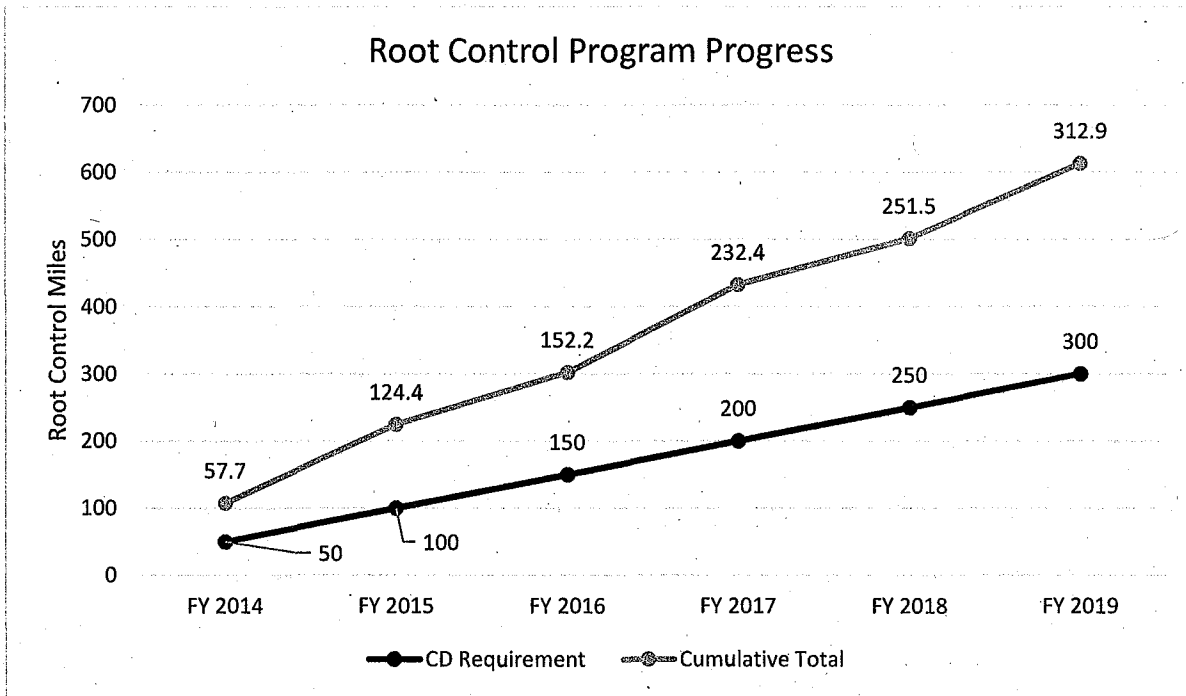


Table 5-4
Root Control Program Implementation

Fiscal Year	Mains Assessed	Cumulative Total	CD Requirement
FY 2018-19	324,192' (61.4 miles)	1,651,849' (312.9 miles)	1,584,000 (300 miles)

E. The City's collection system has 7 pump stations and requires renovation by 2022. The remaining pump stations planned for renovation in FY 2018/2019 have been delayed one year because of the high construction costs and newer technology is considered. The following is the status of each pump station:

- ❖ Denton Place – Construction in FY 2020/2021
- ❖ Fallon Street – Renovation completed in 2018
- ❖ Hegenberger Road – Renovation completed in 2018
- ❖ Parkridge Drive – Construction in FY 2020/2021
- ❖ Tidewater Avenue – Renovation completed in 2012
- ❖ Shepherd Canyon Road – Renovation completed in 2018
- ❖ Skyline Blvd - Construction in FY 2020/2021

F. Eliminate high priority storm water inflow sources and infiltration within 2 years wherever found by EBMUD. By September 30th of each year, EBMUD notifies the City of all identified I/I sources for the previous fiscal year. Below is a summary of high priority sources:

On October 2, 2018, EBMUD submitted to the City, FY18/19 Annual Satellite Notification, in which six (6) public I/I sources and seven (7) private I/I sources were identified. The City provided a response on December 20, 2018, in which two (2) of the six (6) public I/I sources were determined to be high-priority. NTA letters were issued to all seven (7) private I/I sources on January 28, 2019 after field investigations were completed. Both high priority sources are being actively enforced so that it can be eliminated within the required twenty-four months.

G. Acute Defects are by definition, failure in a sewer pipe in need of an urgent response to address an imminent risk of an SSO.

Acute Defects identified and completed in FY 2017-18 and 2018-19 are shown in Table 5-2 of Appendix C.

As detailed in Table 5-2, the following is a summary of activities related to acute defects.

- Nineteen (19) Acute Defects found in FY17-18:
- All nineteen (19) acute defects were repaired in FY18/19 within one Year of identification;
- No Sanitary Sewer Overflows occurred because of delays in Repair of Acute Defects.
- Zero (0) Acute Defects found in FY18/19.

H. Hot spot are by definition, sewer main locations in which more than one SSO occurs within a 3-year period. Hot spots are cleaned every three (3) to twelve (12) months.

The City's High Frequency cleaning program includes 207,677 feet (39.33 miles) of Sewer Mains which are cleaned every three (3) to twelve (12) months. Between July 1, 2018 and June 30, 2019, the City's sewer crews cleaned 361,104 feet (68 miles) of Sewer Mains as part of the High Frequency sewer cleaning program.

I. The City requires that persons seeking building permits which require certificates of occupancy for construction or remodeling exceeding \$100,000 test and, where necessary, replace defective private sewer laterals and obtain Compliance Certificates from EBMUD before being issued certificates of occupancy.

Table 4-10 below shows the City's compliance with the CD requirement to have "...permittees to submit Compliance Certificates before being issued certificates of occupancy for construction or remodeling permits in excess of \$100,000." (Paragraph 84.c).

Table 4-4 – Permits Finalized, with EBMUD Certificates of Compliance

Fiscal Year	# Permits Finalized	# with Compl Cert	# w/o Compl Cert
FY 2018-19	467	446	21

J. No defective sewer laterals owned by Local, State, or federal entities to EPA were found by the City and EBMUD.

K. On June of 2016, the City awarded two on-call construction contracts with two Contractors to inspect and, where necessary, repair or rehabilitate defective City-owned Sewer Laterals of 95 City facilities identified in the Consent Decree. In FY 2016-17, the City have inspected and completed 46 Sewer Laterals Rehabilitation locations. The City expects to complete inspection and repair of City-owned Sewer Laterals well ahead of the September 21, 2024, completion date specified in the Consent Decree.

L. As shown in Table 4-5, during FY18/19 City crews identified 76 defective Sewer Laterals.

Table 4-5
Defective Sewer Laterals

# of Defective Sewer Laterals Identified in Fiscal Year 2017-18	# Of Notices Sent Within 90 Days Or Repaired Within 90 Days	# Of Notices Sent Beyond 90 Days	# Of Administrative Enforcement Actions for Defective Sewer Laterals
76	76	0	0

M. The City provides information on its website a link to EBMUD's Regional Private Sewer Lateral Program describing the program. The City provides EBMUD's sewer lateral education and outreach materials in the permit counter. The City assisted EBMUD in the development of the Sewer Lateral education and outreach program by participating in a meeting with EBMUD in January 2015, when the development of the program and educational materials was reviewed and discussed. Additional review and comments occurred in February 2015, prior to EBMUD's submittal of the plan to EPA for review and comment in March 2015. The City will continue to work with EBMUD in the Regional Private Sewer Lateral Program.

N. The City identifies and reports Fat Oil Grease (FOG) problems to EBMUD. EBMUD investigates and inspects FOG sources and works with food service establishments (FSEs) to correct FOG problems. Non-compliant FSEs are referred to the City for enforcement action. EBMUD has not referred any FSEs to the City for enforcement action.

O. In FY 2018-19, the City experienced three locations that have had high water levels. All three did not have any SSOs and were considered non-capacity related.

The following are construction updates and monitoring progress of the 12 locations:

- I. San Pablo at 60th Street – Construction completed on January 19, 2018
- II. San Pablo at 62nd Street – Construction completed on January 22, 2018
- III. Stanford Avenue at Gaskill Street – High level water not reached
- IV. 27th Street at Vernon Street – High level water not reached
- V. Harrison Street at 27th Avenue - High level water not reached
- VI. Grand Avenue at Harrison Street – Construction completed November 17, 2017
- VII. 19th Street at Jackson Street - High level water not reached
- VIII. Park Boulevard at Spruce Street – Construction Completed on March 26, 2019
- IX. 18th Avenue at 4th Avenue – Construction Completed on December 11, 2017
- X. Maybelle Avenue at Masterson Street - Phase I Construction completed on September 22, 2017. Phase II construction completed on May 28, 2019
- XI. 76th Avenue at Garfield Avenue - High level water not reached
- XII. Trestle Glen at Creed Road – Construction Completed on December 13, 2018

Attachment B

Annual Report FY 2018-2019

CITY OF OAKLAND



250 FRANK H. OGAWA PLAZA OAKLAND, CALIFORNIA 94612-2033

Oakland Public Works Department
Jason Mitchell
Director

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September 30, 2019

Mr. Eric Magnan
Chief, Clean Water Act
Water Section I, (ENF 3-1)
Enforcement Division
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Mr. Michael Montgomery
Executive Officer
San Francisco Bay Regional
Water Quality Control Board
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Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
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Ms. Marnie Ajello
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Mr. Daniel S. Harris
Deputy Attorney General
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San Francisco, CA 94102

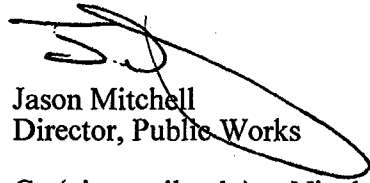
RE: Consent Decree--City of Oakland Annual Report

Dear Mr. Magnan, et al.:

In accordance with the 2014 Consent Decree, enclosed is the City of Oakland's Annual Report for the period from July 1, 2018 to June 30, 2019.

If you have any questions about this report, please contact Mr. Tyree Jackson, Regulatory Compliance Officer, at 510-238-3672.

Sincerely,


Jason Mitchell
Director, Public Works

Cc (via email only): Nicole C. Sasaki (Bay Keeper)
Christopher A. Sproul (Environmental Advocates)
Eileen White (EBMUD)
Chris Chan (Port of Oakland)

Attachments: 2018-19 Annual Report



Sanitary Sewer Collection System

Annual Report

July 1, 2018 to June 30, 2019

Consent Decree, Consolidated Case Nos. C 09-00186-RS and C 09-05684-RS

Annual Sanitary Sewer Collection System Report for July 1, 2018 to June 30, 2019

Certification

I certify under penalty of law that this document and its attachments were prepared either by me personally or under my direction or supervision in a manner designed to assure that qualified and knowledgeable personnel properly gathered and presented the information contained herein. I further certify, based on my personnel knowledge or on my inquiry of the individuals immediately responsible for obtaining the information, that to the best of my knowledge and belief the information is 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 and willful submission of a materially false statement.

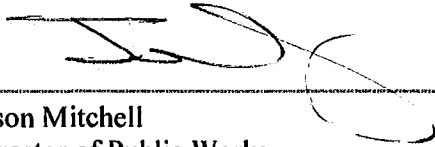
Reviewed by:



Richard Battersby
Assistant Director
Bureau of Maintenance and Internal Services



Matt Lee, PE
Acting Assistant Director
Bureau of Design & Construction



Jason Mitchell
Director of Public Works

9/27/19

Date

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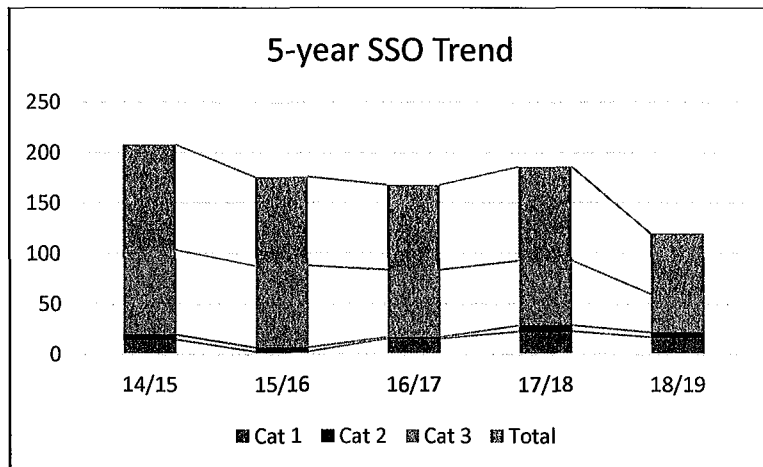
Executive Summary

The City of Oakland's Consent Decree (CD) for operation and maintenance of its Sewer Collection System was approved by state and federal regulatory agencies with an Effective Date of September 22, 2014. The purpose of the CD is to facilitate the City of Oakland's (City) legally binding obligation to reduce inflow and infiltration that contributes to discharges from East Bay Municipal Utility District's (EBMUD) Oakport and San Antonio Wet-weather Facilities, and reduce the amount of sanitary sewer overflows that result in discharge to Waters of the United States. The City of Oakland has met, and in some cases exceeded, the annual operation, maintenance, repair, and rehabilitation requirements as stipulated in the CD. The City is pleased to submit this Annual Report as required by the CD (CD) for Fiscal Year 2018-19 (July 1, 2018 to June 30, 2019).

Over the past fiscal year, the City has made considerable efforts to improve its wastewater programs. Those efforts included an extensive evaluation of the entire wastewater program by an independent consortium of wastewater compliance experts, the addition of key personnel to provide oversight and facilitation of compliance with the CD and other wastewater regulations, and in-depth training and field exercises for operational staff in areas of critical concern. As a result of these efforts, the cumulative sewer rehabilitation work remained significantly ahead of schedule, sanitary sewer overflows significantly declined, and City personnel logged nearly twenty (20) hours per capita of SSO response training. In addition, the City's sewer budget, staffing, and tool and equipment inventory have increased over the year.

Sanitary Sewer Overflows (SSOs):

The City saw a significant decline in the number of sanitary sewer overflows during FY18/19. A total of fifty-nine (59) SSO events were recorded, nearly a 37% reduction from the previous reporting period. Of these reported events, seventeen (17) were Category 1 spills – only three of which resulted in greater than 10,000 gallons discharged into a waterway or surrounding water body.



The total volume spilled in FY18/19 was 106,314 gallons, representing a 21% decrease in volume compared to the previous fiscal year. Of the total amount spilled, 14.99% was contained and returned to the system. In FY18/19, the total volume that reached surface water was 82,109 gallons. This is a 16.01% volume reduction from the previous fiscal year.

Asset Management Implementation Plan (AMIP)

The City partnered with a panel of subject matter experts in the field(s) of wastewater regulatory compliance, design and construction of wastewater collection systems, and operation, maintenance, and repair of underground utilities, to perform a review and analysis of its asset management program. The City identified ten (10) high-priority actions to improve the overall effectiveness of its wastewater programs, six (6) of which involve improvements to the implementation of the asset management plan, directly.

The City anticipates completion of a revised AMIP/SSMP by the end of 2019, and the development of a system-wide master plan by 2022. Both documents are intended to address both short-term improvements and corrective action for areas of concern, and long-term improvements to ensure successful achievement of CD goals.

Infiltration and Inflow Reduction Work:

Sewer Main and Maintenance Hole Rehabilitation.

As of June 30, 2019, the City has rehabilitated 423,342 feet (80.2 miles) of sewer main. This exceeds the CD requirement to rehabilitate 348,480 feet (66 miles) by June 30, 2019. In addition, the City had rehabilitated an additional 26,696 feet (5.1 miles) of sewer main – slightly more than the CD requirement to rehabilitate 26,400 feet (5 miles) by June 30, 2019.

Sewer Main and Maintenance Hole Inspection.

As of June 30, 2019, 2,851,200 feet (540 miles) of sewer mains have been inspected and assessed using standard CCTV methodology. This exceeds the CD requirement to inspect 2,671,680 feet by June 30, 2019. Between July 1, 2018 and June 30, 2019, 957 maintenance-hole inspections were performed. Two (2) maintenance holes were found in poor condition, during the reporting period, and are scheduled for repair/rehab within a one-year period.

Development of Regional Standards. The City bases its construction plans and specifications on *The “Greenbook”*: *Standard Specifications for Public Works Construction*, a statewide standard for the municipal construction industry. The City has incorporated these standards in all capital projects designed during this reporting period. The Defendants have and will continue to evaluate the effectiveness, and coordinate on potential revisions and improvements, as the need arises.

EBMUD’s Sewer Lateral Education and Outreach Program. The City continues to work with EBMUD in implementation of the program.

Sewer Lateral Inspection and Repair. In FY18/19, the City finalized 467 building permits which required certificates of occupancy for construction, or remodeling permits in excess of \$100,000. The City met the CD requirement to limit the number of building permits issued without Compliance Certificates to less than 25 per Fiscal Year. Among the 21 building permits which didn’t receive Compliance Certificates from EBMUD, 11 actually completed sewer lateral replacement work to comply with I/I reduction, but failed to pay the certificate fee at permit final date. The remaining 10 building permits did not involve structures with a building sewer, and therefore a Compliance Certificate was not applicable.

Additionally, City crews identified seventy-six (76) defective sewer laterals during the reporting period. All affected property owners were notified in writing within 90 days of identifying the defective sewer laterals.

Inflow and Rapid Infiltration Identification and Elimination.

On October 2, 2018, EBMUD submitted to the City, FY 2017-18 Annual Satellite Notification, in which six (6) public I/I sources and seven (7) private I/I sources were identified. The City provided a response on December 20, 2018, in which two (2) of the six (6) public I/I sources were determined to be high priority. NTA letters were issued to all seven (7) private I/I sources on January 28, 2019 after field investigations were completed. Both high priority sources are being actively enforced so that it can be eliminated within the required twenty-four months.

SSO Reduction Work:

Capacity Assurance.

The CD requires the City to increase sewer capacity in certain locations when sewer flows reach within one foot of the Maintenance Hole rim. In FY18/19 the City experienced a total of three (3) locations that reached within one foot of the Maintenance Hole rim. All flows were contained within the system and no SSO event occurred at any of these three (3) locations.

Acute Defects.

- Nineteen (19) Acute Defects found in FY17-18:
 - All nineteen (19) acute defects were repaired in FY18/19 within the one-year requirement;
- No acute defects identified during the reporting period.

Sewer Main Cleaning.

The City started a new multi-year cleaning cycle during the reporting period. In FY2018-19, 998,933 unique feet (189 miles) of Sewer Main were cleaned, which exceeds the CD requirement of 971,520 unique feet (184 miles).

Root Cleaning (Foaming).

The City had root foamed 1,651,849 feet (312.9 miles) of sewer mains during the reporting period – which exceeds the CD requirement of 1,584,000 feet (300 miles).

Hot Spot Cleaning.

As of June 30, 2019, the City's High Frequency cleaning program includes 207,677 feet (39.33 miles) of sewer mains which are cleaned on a three (3) to twelve (12) month cycle. Each of these locations were cleaned at least once in FY18/19. One (1) SSO event was reported for a pipeline currently on a high-frequency maintenance schedule. Additional evaluation of the pipeline, and the prescribed maintenance activity, was performed – which resulted in the pipeline being placed on a wet-weather monitoring program.

Fats, Oil and Grease (FOG) Control.

In FY18/19, 19 SSOs were estimated to be associated with FOG. These locations were referred to EBMUD for investigation.

Pump Station Renovation.

The City's sewer collection system consists of seven (7) pump stations. Improvements on one pump station were completed in 2012. Improvements on three pump stations were completed in FY17-18. Design of the remaining three pump stations was completed in FY18/19. Due to high construction costs, the construction of the remaining three pump stations is to be scheduled in FY20-21. The completion of all pump stations will be completed by 2021, prior to the required deadline of October 2022.

Known Noncompliance with Consent Decree

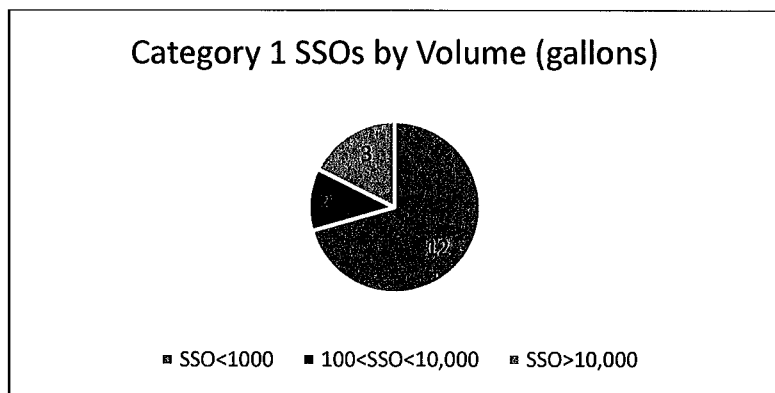
The City is unaware of any non-compliance, and believes that it has been in full compliance with the CD during the reporting period.

Assessment of Stipulated Penalties

Paragraph 186 of the CD: For each SSO that reaches waters of the United States, a stipulated penalty may be assessed as follows, with “gallons” referring to the total size of the overflow, spill or release:

Penalty Per SSO for SSOs totaling:		
Less than 1,000 gallons	1,000 to 9,999 gallons	10,000 gallons or more
\$200	\$1,000	\$25,000

In FY18/19, the total SSO volume reaching surface waters was 82,109 gallons from 17 SSO events. The total potential assessed stipulated penalty for FY 2018-19 SSOs that reached Waters of United States is \$79,400.



The City requests that stipulated penalties be waived for the SSO events that reached surface waters. The spills were generally occurred due to non-point source FOG and debris loading, and several occurred during heavy wet-weather events. In addition, one of the three largest spills was the result of damage to the utility not caused by the City. The City has been meeting the cleaning and rehabilitation goals annually since FY 2014, and continues to see a decline in the overall numbers of SSO events within its collection system. Assessment of stipulated penalties will divert funding from I/I reduction efforts, training for SSO response and reporting, and public outreach, and negatively impact the City’s ability meet future operational goals and requirements. If Plaintiffs disagree with this position, the City would appreciate the opportunity to discuss assessment of any potential penalties and provide additional explanations of its position.

Section 1. – Introduction

Paragraph 139 of the CD (Case Nos. C09-00186 and C09-05684) requires:

“By September 30th of each Fiscal Year... each Defendant shall submit to Plaintiffs, with a copy to Intervenors, an annual progress report (“Annual Report”) covering the period July 1st through June 30th of the prior Fiscal Year.”

This Annual Report has been prepared pursuant to the requirements of the CD. The following sections of this report present the required information for Fiscal Year 2018-19 (July 1, 2018 to June 30, 2019):

		Page in CD
Section 1.	CD Para 139 Introduction	8
Section 2.	CD Para 144 Annual Report of Sanitary Sewer Overflows (SSO)	9
Section 3.	CD Para 165 Asset Management Implementation Plan Status	13
Section 4.	CD Para 166 Infiltration and Inflow Reduction Work	
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Section 8.	CD Para 172 Assessment of Stipulated Penalties	42
Section 9.	CD Para 143 Recommended Changes to Required Work	43

Section 2. – Annual Report of Sanitary Sewer Overflows

Paragraph 144 of the CD requires:

“A Sanitary Sewer Overflow Report that includes the location of SSOs; the start and end date and time of each SSO; the SSO volume including gross volume, amount recovered, and amount not recovered; the destination of each SSO; the probable cause(s) of the SSOs; the location(s) of repeat SSOs; a list of any SSOs at locations where the Sewer Main had been Rehabilitated in the previous ten (10) Fiscal Years; and a description of measures taken to help prevent these SSOs in the future.”

Number of SSOs

The City of Oakland’s Sewer Collection System had 59 SSO events during FY18/19.

A detailed list of SSOs is shown in **Appendix A**.

Number and Location of Repeat Overflows

In FY18/19, the City had three locations (4 SSOs) in which a second sewer overflow occurred within a three-year period. Table 2-1 below lists the number and location of overflows occurring at repeat locations along with a description of measures taken to prevent future SSO’s at these locations. All locations below have been added to the High Frequency Cleaning List “Hot Spots”.

Table 2-1 Repeat SSO Locations, FY18/19

SSO Location	CIWQS #	Cause	Date	Measure(s) to prevent SSO	Pipe ID
814 Mandana Blvd	855761	Flow Exceeded Capacity	3/1/19	On 6 month PM list	20026
100 Crest Rd	852282, 852094	Root Intrusion, Root Intrusion	10/29/18, 10/28/18	On 6 month PM list	23084
3342 E 16 th St	856392	Grease Deposition (FOG)	2/22/19	On 12 month PM list	8754

Sewer Overflows in Rehabilitated Areas

In FY18/19, six (6) SSOs occurred in areas rehabilitated since July 1, 2008 (within the last ten years) as shown in Table 2-2 below. Of these locations, 4 of the 6 SSOs were FOG related problems, one was caused by debris, and one was caused by damage from a construction crane. Corrective actions, as detailed below, include cleaning, CCTV inspection, and addition to the “Hot Spot” list.

Table 2-2 – SSO Locations within Rehabilitated Areas, FY18/19

SSO Location	CIWQS #	Cause	Date	Measure(s) to prevent SSO	Rehab Year	Pipe ID
125 2 nd St	855820	Grease Deposition (FOG)	1/30/19	Added to High Frequency 6-month Power Rodding Program	2010	11030
3456 Boston Av	850942	Grease Deposition (FOG)	9/12/18	Added to High Frequency 12-month Power Rodding Program	2010	13688
401 15 th St	858507	Grease Deposition (FOG)	5/22/19	Added to High Frequency 6-month Power Rodding Program	2010	14944
1034 Agpar St	855902	Damage caused by a crane that was stationary over the sanitary sewer	2/4/19	Line repaired on 3/08/2019 by City Crew	2017	23901
Bellevue Av & Perkins St	854687	Grease Deposition (FOG)	12/25/18	Added to High Frequency 12-month Power Rodding Program	2013	36208
2938 68 th Av	857801	Debris-General	4/20/19	Added to High Frequency 6-month Hydro Flushing Program	2013	6577

Section 3. – Asset Management Implementation Program

Paragraph 165 of the CD requires:

“The City shall summarize implementation of each element of its AMIP. The summary shall include any proposed revisions to the AMIP, including, but not limited to, revisions to maintenance, construction, and Rehabilitation schedules, along with any associated changes to its financial plan, and an explanation of how those revisions are consistent with its obligations under the Consent Decree.”

On October 31, 2014, the City submitted an updated its AMIP which had been revised to comply with ORDER NO. WQ 2013-0058-EXEC (the amended MRP for the Statewide Waste Discharge Requirements) and Final Consent Decree. The AMIP provided new maintenance, construction and rehabilitation schedules, as well as a revised financial plan. The City is implementing both the AMIP and the CD. Also, the City is working on updating the AMIP/SSMP document, and anticipates submittal of a revised AMIP/SSMIP to the State, during fiscal year 2019/2020. The proposed revisions will affect the SSMP portion of the asset management plan.

Section 4. – Inflow/Infiltration Reduction Work

4.1 Sewer Main and Maintenance Hole Rehabilitation

Paragraph 166.a.i. of the CD requires that the Annual Report contain:

“Rehabilitation: all Sewer Main and Maintenance Hole Repair and Rehabilitation activities completed...”

Paragraph 83.a. of the CD requires:

“Between January 1, 2014 and June 30, 2016, the City of Oakland shall rehabilitate 158,400 feet [30 miles] of Sewer Main.... When the City rehabilitates a Sewer Main, it shall also Rehabilitate, as needed, all Maintenance Holes associated with the Sewer Main and ensure that abandoned Sewer Laterals are not connected to that Sewer Main.”

Sewer Mains Rehabilitated

As of June 30, 2019, the City of Oakland has Rehabilitated 423,342 feet (80.2 miles) of Sewer Main. This exceeds the CD requirement to rehabilitate 348,480 feet (66 miles) by June 30, 2019. The City’s Sewer Main Rehabilitation Program is ahead of schedule as shown in Table 4-1.

Table 4-1 – Length of Rehabilitated Sewer Mains

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement **
1/11/14-6/30/14	131,653’ (24.9 miles)	131,653’ (24.9 miles)	-----
FY 2014-15	60,546’ (11.5 miles)	192,199’ (36.4 miles)	-----
FY 2015-16	71,751’ (13.6 miles)	263,950’ (50.0 miles)	158,400’ (30 miles)
FY 2016-17	58,964’ (11.2 miles)	322,914’ (61.2 miles)	221,760’ (42 miles)
FY 2017-18	59,433’ (11.2 miles)	382,347’ (72.4 miles)	285,120 (54 miles)
FY 2018-19	40,995’ (7.8 miles)	423,342’ (80.2 miles)	348,480 (66 miles)

**Cumulative total beginning 01/01/14

Additional Sewer Mains Rehabilitated

Paragraph 83.b. of the CD requires:

“...In addition to the Work required under paragraph 83(a), beginning on July 1, 2014, the City shall complete, by the end of each Fiscal Year, Rehabilitation of no less than 5,280 feet of Sewer Main, anywhere within the City’s Collection System, based on a cumulative total (i.e., 5280 feet by June 30, 2015; 10,560 feet by June 30, 2016; 15,840 feet by June 30, 2017; etc.) for the duration of the Consent Decree.”

As of June 30, 2019, the City of Oakland had Rehabilitated 26,696 feet (5.1 miles) of Additional Sewer Mains as shown in Table 4-2.

Table 4-2 – Length of Additional Sewer Mains Rehabilitated

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement
FY 2014-15	6,485’ (1.2 miles)	6,485’ (1.2 miles)	5280’ (1 mile)
FY 2015-16	6,097’ (1.2 miles)	12,582’ (2.4 miles)	10,560’ (2 miles)
FY 2016-17	3,803’ (0.7 miles)	16,385’ (3.1 miles)	15,840’ (3 miles)

FY 2017-18	4,805' (0.9 miles)	21,190' (4.0 miles)	21,120 (4 miles)
FY 2018-19	5,506 (1.1 miles) ***	26,696' (5.1 miles)	26,400 (5 miles)

*** The reported mileage has been adjusted by subtracting the over-reported mileage of 2,062 feet (0.39 miles) in previous Annual Reports (FY14-15, FY15-16, and FY16-17) as documented in the response to EPA's Report titled "Review of the City's Oakland's Compliance under Consent Decree in US. Et al. V. EBMUD et al. Case Nos. 3:09 cv-00186-RS and 3:09-cv-05684-RS (N.D. Cal)" dated May 6, 2019.

Maintenance Holes

Paragraph 166.a.i.C. of the CD requires that the Annual Report contain:

"...the number of Maintenance Holes associated with Rehabilitated Sewer Mains and the number of Maintenance Holes Rehabilitated;"

As part of its Sewer Main Rehabilitation Program in FY18/19 the City Repaired or Rehabilitated a combined total of 449 Maintenance Holes.

Abandoned Sewer Laterals

Paragraph 166.a.i.D. of the CD requires that the Annual Report contain:

"...a statement that the City did not reconnect any abandoned Sewer Laterals that the City found to be connected to the Sewer Main;"

The City sealed off any abandoned sewer laterals which were encountered during construction. No abandoned laterals were reconnected to Sewer Mains.

Sewer Main Rehabilitation Budget and Expenditures

Paragraph 166.a.i.F. of the CD requires that the Annual Report contain:

"...the Rehabilitation budget and dollars spent on Sewer Main Rehabilitation;"

During FY18/19, the City budgeted \$ 16,514,700 for capital improvements of the sewer collection system. Improvements include rehabilitating or replacing sewer mains, lower laterals, and associated sewer structures. This budgeted amount is intended to cover hard construction costs and soft costs associated with design and construction management. It must be noted that capital budget is not typically spent in one fiscal year as project activities and expenditures span a 2 to 3 year periods. The total combined expenditure for sewer main rehabilitation was \$11,372,285 in FY2018-2019.

Proposed Sewer Main Rehabilitation Projects

Paragraph 166.a.i.G of the CD requires that the Annual Report contain:

"...the Sewer Mains targeted to be Rehabilitated in the next Fiscal Year;"

In FY 2019-20, the City plans to complete five (5) Sewer Main Rehabilitation projects. These projects will rehabilitate approximately 11 miles of sewer mains in FY 2019-20. All appurtenant sewer maintenance holes will also be rehabilitated as needed as part of these projects. The locations of these projects are selected from Appendix H of the CD and various locations for the one (1) additional mile of sewer main rehabilitation required under Paragraph 83.b. The locations for the additional one (1) mile of sewer mains rehabilitation will be developed in response to complaints and requests. Appendix H of the CD lists Oakland's Sewer Collection System sub-basin priorities.

Revisions to Appendix H

Paragraph 166.a.i.H. of the CD requires that the Annual Report contain:

“...an explanation of any revisions that were made to Appendix H, or the financial plan associated with future Sewer Main Repair and Rehabilitation...”

No revisions were made to Appendix H.

4.2 Sewer Main and Maintenance Hole Inspection

Paragraph 83.c. of the CD requires:

“For the duration of this CD, the City of Oakland shall inspect, using CCTV or other equally effective methods, and document condition assessment of, its Collection System at an annual rate of no less than 10 percent of its Sewer Mains per Fiscal year (at least 485,760 feet of Sewer Mains per Fiscal Year) on a cumulative basis (i.e., 242,880 feet by June 30, 2014; 728,640 feet by June 30, 2015; 1,214,400 feet by June 30, 2016; etc.).”

Paragraph 166.a.ii.A. of the CD requires the Annual Report to contain:

“the total feet of Sewer Main inspected with completed condition assessment and the cumulative total feet of Sewer main inspected with completed condition assessment since the Effective Date”

Sewer Main Condition Assessment

As shown in Table 4-3, 2,851,200 feet (540 miles) of sewer mains have been inspected and assessed using CCTV inspection. This exceeds the CD requirement to inspect 2,671,680 feet by June 30, 2019.

Table 4-3 – Length of Sewer Mains Inspected and Assessed

Fiscal Year	Mains Assessed **	Cumulative Total ***	CD Requirement
FY 2013-14*	182,935’ (35 miles)	182,935’ (35 miles)	242,880’ (46 miles)
FY 2014-15	618,991’ (117 miles)	801,926’ (152 miles)	728,640’ (138 miles)
FY 2015-16****	619,913’ (117 miles)	1,408,769’ (267 miles)	1,214,400’ (230 miles)
FY 2016-17	502,816’ (95 miles)	1,911,585’ (362 miles)	1,700,160’ (322 miles)
FY 2017-18	441,361’ (84 miles)	2,352,943’ (446 miles)	2,185,920’ (414 miles)
FY 2018-19	495,639’ (94 miles)	2,851,200’ (540 miles)	2,671,680’ (506 miles)

*Six months, January 1, 2014 – June 30, 2014

**Newly-unique feet assessed during the FY (feet that had no previous assessment between January 1, 2014 and the start of the FY)

***Cumulatively-unique feet starting January 1, 2014

****Beginning FY 2015-16, the numbers reflect updates to sewer GIS data each year. Totals for prior fiscal years were not re-calculated based on the newer updates to sewer GIS data; therefore, the current cumulative total may not equal the prior cumulative total plus the total for the current fiscal year.

Maintenance Hole Inspection

Paragraph 83.c of the CD requires:

“When the City inspects a Sewer Main, it shall also inspect all Maintenance Holes associated with that Sewer Main.”

Paragraph 166a.ii.C of the CD requires:

“the number of Maintenance Holes inspected”

Between July 1, 2018 and June 30, 2019, 957 maintenance-hole inspections were performed. Field staff visually inspected the barrel of every maintenance hole and completed a computerized maintenance hole inspection form.

4.3 Development of Regional Standards

Paragraph 166.a.iii. of the CD requires the Annual Report to contain:

“Regional Standards: a description of the activities to develop...Regional Standards.”

Paragraph 83.d. further requires:

“The City shall work with other Defendants to create Regional Standards for sewer installation, Rehabilitation and Repair and participate in submitting a group report of the recommended standards for EPA’s review and approval by June 30, 2016, and for review, every five years thereafter.”

A Regional Standards committee (RSC) was formed in May 2015 by all Defendants for the review and development of Regional Standards regarding the work on sewer mains, manholes, and sewer laterals. In April 2015, a consultant (Humphrey Consulting) was contracted to assist the Defendants and the RSC in the development of standards. The City actively participated in the meetings of the RSC, held from May 2015 through June 2016. On June 30, 2016, Humphrey Consulting submitted the Regional Standards to EPA for review and approval and to the Plaintiffs on behalf of all Defendants, as required in the CD.

The City have implemented the Regional Standards for the design of its capital projects. The Defendants have and will continue to discuss the Regional Standards, its effectiveness, and potential revisions and improvements at coordination meetings.

4.4 Sewer Lateral Inspection and Repair

Paragraph 166.b.i. of the CD requires the Annual Report to contain:

“Sewer Laterals: a description of the activities taken and materials used to notify property owners of defective sewer Laterals...”

Regional Private Sewer Lateral (PSL) Program

Paragraph 84.c of the CD requires:

“The City, to satisfy the requirements of this subparagraph, shall document, in spreadsheet format, the building permits issued during the Fiscal Year, the certificates of occupancy issued, and whether a Compliance Certificate was submitted prior to issuance of the certificate(s) of occupancy.”

Oakland started its PSL program on January 16, 2012, in collaboration with the Regional PSL Program administered by the East Bay Municipal Utility District (EBMUD).

The City requires that persons seeking building permits which require certificates of occupancy for construction or remodeling exceeding \$100,000 test, and, where necessary, replace defective private sewer laterals and obtain Compliance Certificates from EBMUD before being issued certificates of occupancy.

Table 4-4 shows the City's compliance with the CD requirement to have “...permittees to submit Compliance Certificates before being issued certificates of occupancy for construction or remodeling permits in excess of \$100,000.” (Paragraph 84.c).

Table 4-4 – Permits Finalized, with EBMUD Certificates of Compliance

Fiscal Year	# Permits Finalized	# with Compl Cert	# w/o Compl Cert
FY 2018-19	467	446	21

In FY18/19, the City finalized 467 building permits which required certificates of occupancy for construction or remodeling permits in excess of \$100,000. Among the 467 building permits, 446 building permits received Compliance Certificates issued by EBMUD and 21 building permits didn't receive Compliance Certificates from EBMUD which met the CD requirement to limit the number of building permits issued without Compliance Certificates to less than 25 per Fiscal Year. Among the 21 building permits which didn't receive Compliance Certificates from EBMUD, 11 building permits indeed completed sewer laterals replacement work to comply with I/I reduction but didn't pay the certificate fee at permit final date; the rest 10 building permits do not involve structure with a building sewer, i.e., replacement of mechanical requirements; therefore, a Compliance Certificate is not needed. The City continues to share data with EBMUD and sends spreadsheets detailing Oakland's activities.

Other Privately Owned Defective Sewer Laterals

Paragraph 85.a. of the CD requires:

“Within 90 days of identifying a Sewer Lateral as defective the City of Oakland shall notify the owner in writing.”

Paragraph 166.b.i. of the CD requires the Annual Report to contain:

- “A. the number of sewer Laterals identified as defective;*
- B. the number of property owners notified that their Sewer Laterals are defective;*
- C. a copy of a representative notice that was sent to property owners notifying them that their Sewer Lateral is defective;*
- D. a description and the number of administrative enforcement actions taken against property owners for defective Sewer Laterals;”*

As shown in Table 4-5, during FY18/19 City crews identified 76 defective Sewer Laterals. The City, as a practice, immediately notifies property owners when defective sewer laterals are identified by placing a door hanger notice (Figure 4-3, Appendix B) at the affected property. This is done every time our sewer maintenance crews complete a field investigation with confirmation of a defective sewer lateral. The City is in full compliance with the requirements in Paragraph 85.a. of the CD in FY2018-19. In addition, the City sends a secondary notice to the affected property, a sample letter of administrative enforcement actions is attached in Figure 4-3, Appendix B.

Table 4-5 – Defective Sewer Laterals

# of Defective Sewer Laterals Identified in Fiscal Year 2017-18	# Of Notices Sent Within 90 Days Or Repaired Within 90 Days	# Of Notices Sent Beyond 90 Days	# Of Administrative Enforcement Actions for Defective Sewer Laterals
76	76	0	0

Oakland-Owned Sewer Laterals

Paragraph 166.b.i.E requires the Annual Report to contain:

“...the number of Oakland-owned Sewer Laterals inspected and Repaired or Rehabilitated and the cumulative number of Oakland-owned Sewer Laterals inspected and Repaired or rehabilitated from the Effective Date;”

On June of 2016, the City awarded an on-call construction contracts with two Contractors to inspect and, where necessary, repair or rehabilitate defective City-owned Sewer Laterals of 95 City facilities identified in Appendix H-1 of the CD. During FY18/19, the City completed sewer lateral rehabilitations at 46 locations, which brings the total number of rehabbed locations to 73. The City expects to complete inspection and repair of City-owned Sewer Laterals ahead of the September 21, 2024, completion date specified in the CD. A list of Oakland-Owned Sewer Laterals is presented in Table 4-6 of Appendix D.

Defective Sewer Laterals Owned by Other Public Entities or Government Agencies

Paragraph 166.b.i.F. requires the Annual Report to contain:

“...the address and name of any property owned by a Public Entity, or the State or federal government, that has an identified defective Sewer Lateral, including a description of the defect;”

During FY18/19, the city did not identify any defective Sewer Laterals owned by other Public Entities or the State or federal government.

Sewer Lateral Education and Outreach Program

Paragraph 166.b.i.G. requires the Annual Report to contain:

“... a summary of the City’s assistance to EBMUD in the development of a Sewer Lateral education and outreach program.”

The City will continue to work with EBMUD in implementation of the program.

Lower Sewer Laterals

Paragraph 166.b.ii requires the Annual Report to contain:

“Lower Sewer Laterals: the number of Sewer Laterals connected to the Rehabilitated Sewer Mains and the number of Lower Sewer Laterals Repaired or Rehabilitated.”

City Repaired or Rehabilitated 187 Lower Sewer Laterals as part of the construction projects as part of its Sewer Main Rehabilitation, the City reconnected all 584 encountered Sewer Lateral connections, including connections to laterals within easements. The Laterals within easements are within private properties and are not considered Lower Sewer Laterals.

4.5 Inflow and Rapid Infiltration Identification and Elimination

Paragraph 166.c.i. of the CD requires the Annual Report to contain:

“a description of the City’s cooperation with EBMUD’s implementation of the RTSP...”

The City will continue to work with EBMUD in implementation of the program.

On October 2, 2018, EBMUD submitted to the City, FY18/19 Annual Satellite Notification, in which six (6) public I/I sources and seven (7) private I/I sources were identified. The City provided a response on December 20, 2018, in which two (2) of the six (6) public I/I sources were determined to be high priority. NTA letters

were issued to all seven (7) private I/I sources on January 28, 2019 after field investigations were completed. Both high priority sources are being actively enforced so that it can be eliminated within the required twenty-four months.

Section 5. SSO Reduction Work

Paragraph 167 of the CD requires:

“The City shall summarize its Work to reduce SSOs in its service area in the reporting Fiscal Year.”

A targeted approach to increase maintenance of pipelines known (or suspected) to have operational issues (i.e. excessive root intrusion, non-dispersible wipes, paving debris, and/or FOG) was implemented throughout the fiscal year. In addition, the City re-instituted use of a degreasing additive in its hydro-jetting maintenance (both routine and high-frequency) to aid in effectiveness of cleaning activity.

From approximately September 1st, 2018 through June 30th, 2019, the City piloted a manhole monitoring project to assist with monitoring and evaluation of wet-weather surcharging, and predictive maintenance activity, at select locations within the collection system.

Additional SSO prevention measures are identified in the following sections:

5.1 Capacity Assurance

Paragraph 167.a. of the CD requires that the Annual Report contain:

“Capacity Assurance: a description of the activities performed in order to monitor the locations in Paragraph 89(a) during rain events...”

During FY18/19, the City monitored water levels in Maintenance Holes listed in Paragraph 89(a) of the CD by using high-water level alarm sensors. These sensors were installed 12” below the rim of the manhole cover. The low water level alarm sensors were installed 17” below the rim of the manhole cover. Table 5-1 provides information required in Paragraph 167a of the CD.

Paragraph 167.a.i requires the City to show the *“highest water level in relation to the Maintenance Hole observed in the reporting Fiscal Year”*.

Table 5-1 is a cumulative list of all locations that received high water level alarms in FY 2014-15, FY 2015-16, FY 2016-17, FY 2017-18, and FY18/19. In FY18/19 the City experienced a total of three (3) locations that reached within one foot of the Maintenance Hole rim. All flows were contained within the system and no SSO events have occurred at any of these three (3) locations. All locations were non-capacity related.

Paragraph 167.a.ii requires the City to identify any *“capacity-related SSO or instance of the water level reaching within one (1) foot of the Maintenance Holes rim due to a lack of capacity and whether the event(s) occurred during a rain event that was greater than the December 5, 1952 Storm”*.

As shown in Table 5-1, high water levels were experienced in two locations that were triggered by the February 13, 2019 storm event. Our analysis shows that the February 13, 2019 storm have exceeded the December 5, 1952 storm. The event surpassed a 5-year classification with a full duration classification of a 10-year, 21-hour event. Despite this, and out of an abundance of caution, the City has begun design of upgrades to the two locations where high water levels were triggered. The City, at our discretion will assess if funding these projects are obtainable, as they are not required by the CD. A list of the City’s progress on the planned upgrades is provided next page.

Paragraph 167.a.iii requires the City to provide *“a description of all activity the City performed to prevent an SSO from occurring at a location where the City had reason to believe a capacity-related SSO was likely to occur”*.

Table 5-1 includes a description of maintenance activities performed to prevent SSO’s for each location.

Paragraph 167.a.iv requires the City to provide *“a description of activities to address locations that do not have sufficient capacity”*.

There are no activities to report in FY2018-19.

Paragraph 167.a.v requires the City to provide *“a list of sewer segments improved pursuant to Paragraph 89(b) including the date the capacity was improved, and certification that any improved Sewer Main has sufficient capacity”*.

The following is a summary progress report on all four locations:

- Maybelle Avenue and Masterson Street (Phase 2) - Construction Completed on May 28, 2019
- Trestle Glen Road at Creek Road – Construction Completed on December 13, 2018
- Park Blvd and Spruce Street - Construction Completed on March 26, 2019
- Maybelle Avenue, Porter Street and High Street – Construction planned for Spring 2020

Paragraph 167.a.vi requires the City to provide *“identification of any capacity-related SSOs and the SSO date and location”*.

There are no capacity-related SSOs to report in FY2018-19.

Table 5-1 – Capacity Related High Level Alarms Triggered

No. Listed from CD	Location	Date of Occurrence	Rain Event?	Exceeded 1952 Storm?	Reasons for High Level Alarm	Maintenance Performed to Prevent SSO's	Comment
i.	San Pablo Avenue at 60th Street ****	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 5-29-14, 2-18-15, 9-20-16 Cleaned: 2-18-15, 4-28-16, 9-20-16 On Hot Spots List	**Construction Completed on January 19, 2018.
		1/19/2016	Yes	No	Grease & Capacity		
		3/5/2016	Yes	No	Grease & Capacity		
		6/5/2019	No	No	Maintenance staff triggered sensor		
ii.	San Pablo Avenue at 62nd Street****	9/23/2015	No	N/A	Maintenance staff triggered sensor	Televised: 4-29-14, 10-17-16 Cleaned: 9-23-15, 8-30-16 On Hot Spots List	**Construction Completed on January 22, 2018.
		10/20/2017	No	N/A	Construction activities triggered sensor		
		6/8/2019	No	No	Maintenance staff triggered sensor		
iii.	Stanford Avenue at Gaskill Street	9/23/2015	No	N/A	Maintenance staff triggered sensor	Televised: 8-20-14, 10-06-16. Cleaned: 10-06-15, 10-06-16. Inspected and reset surge alarm unit 9-23-15.	Upsizing not needed.
		8/25/2016	No	N/A	Maintenance staff triggered sensor		
iv.	27th Avenue & Vernon Street	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 4-29-14, 12-16-14, 9-19-2016 Cleaned: 4-29-14, 6-2-14, 1-13-15, 7-27-15, 2-8-16, 8-10-16, 9-19-15, 2-14-17, 8-25-17, 3-9-17, 5-2-17 On High Frequency Cleaning List, Every 6 Months	Upsizing not needed. The current hydraulic model shows there is sufficient capacity. The location is placed on the High Frequency 6-month cleaning list.
		1/19/2016	Yes	No	Grease		
		12/15/2016	Yes	No	Grease		
		2/20/2017	Yes	Yes	Exceeded 1952 Storm		
		11/28/2018	Yes	No	Grease and Debris		
		11/29/2018	Yes	No	Grease and Debris		

		2/13/2019	Yes	Yes	Exceeded 1952 Storm		
v.	Grand Avenue and Harrison Street****	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 4-28-14 Cleaned: 4/28/14, 5/27/2015, 6-8-16, 6/13/17	**Construction Completed on November 17, 2017.
		1/06/2016	Yes	No	Grease & Sag		
		1/17/2016	Yes	No	Grease & Sag		
		1/19/2016	Yes	No	Grease & Sag		
		1/22/2016	Yes	No	Grease & Sag		
		3/5/2016	Yes	No	Grease & Sag		
		12/10/2016	Yes	No	Grease & Sag		
		12/15/2016	Yes	No	Grease & Sag		
		1/9/2017	Yes	No	Grease & Sag		
		1/10/2017	Yes	No	Grease & Sag		
		1/18/2018	Yes	No	Grease & Sag		
		1/20/2017	Yes	No	Grease & Sag		
		1/22/2017	Yes	No	Grease & Sag		
		2/20/2017	Yes	Yes	Exceeded 1952 Storm		
		3/4/2017	Yes	No	Grease & Sag		
		4/7/2017	Yes	No	Grease & Sag		
7/29/2017	No	N/A	PG&E Construction activities				
vi.	19th Street and Jackson Street	† 12/13/2015	Yes	No	Downstream sewer construction by-pass and cleaning triggered sensor	Televised: 5-27-14, 10-3-16, 11-18-16, 5/15/2017 Cleaned: 11-21-14, 9-19-16, 11-16-16, 5/2/2017, 11-22-19 Inspection every 6 months	Revised conclusion that the trigger was not capacity related. Additionally, a sewer relief line was constructed in 2010.

		11/28/2018	Yes	No	Debris		
		2/2/2019	Yes	No	Maintenance staff triggered sensor		
vii.	Park Blvd and Spruce Street	1/17/2016	Yes	No	Capacity	Televised: 11-14-14, 8-3-16 Cleaned: 1/23/14, 7-8-16 On High Frequency Cleaning List; every 12 Months	Capacity deficiency mitigated due to immediate downstream upsizing project on East 18 th Ave at 4 th Ave. *** Construction Completed on March 26, 2019.
		3/5/2016	Yes	No	Capacity		
		3/12/2016	Yes	No	Capacity		
		1/8/2018	Yes	No	Maintenance staff triggered sensor		
		10/9/2018 – 6/5/2019	No	No	Construction activities. Sensor removed during duration of Capacity upgrade till completion of March 2019. Maintenance staff triggered sensor in June 2019.		
viii.	East 18th Avenue at 4th Avenue****	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 12-26-14, 8-14-15, 8-29-17 Cleaned: 8-09-16	**Construction Completed on December 11, 2017.
		12/13/2015	Yes	No	Capacity		
		12/21/2015	Yes	No	Capacity		
		1/06/2016	Yes	No	Capacity		
		1/17/2016 & 1/19/2016	Yes	No	Capacity		
		3/05/2016 & 3/10/2016	Yes	No	Capacity		
		12/10/2016 & 12/15/2016	Yes	No	Capacity		
		2/20/2017	Yes	Yes	Exceeded 1952 Storm		

		6/2/2019	No	No	Maintenance staff triggered sensor		
ix.	††Maybelle Avenue and Masterson Street****	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 1-2-15, 9-22-16, 1-10-17, 8-24-17, 11-19-17 Cleaned: 12-27-15, 3-15-16, 1-2-17, 9-13-17	***Construction Completed on September 22, 2017.
		1/17/2016 & 1/19/2016	Yes	No	Sag		
		3/5/2016 & 3/10/2016	Yes	No	Sag		
		3/13/2016 & 1/10/2017	Yes	No	Sag		
		2/20/2017	Yes	Yes	Exceeded 1952 Storm		
		9/19/2017	No	N/A	Construction activities triggered sensor		
		8/25/2018	No	N/A	Construction activities triggered sensor		
		1/6/2019	Yes	No	Sag		
		2/13/2019	Yes	Yes	Exceeded 1952 Storm		
x.	†††Trestle Glen road and Creed Road	* 12/11/2014	Yes	Yes	Exceeded 1952 Storm	Televised: 1-26-15 Cleaned: 5-6-15, 11-9-15, 5-10-16, 12-5-16, 6-6-17 Location on High Frequency Cleaning List Every 3 Months	*** Construction Completed on December 13, 2018.
		1/17/2016 & 1/19/2016	Yes	No	Debris & Sag		
		3/5/2016	Yes	No	Debris & Sag		
		12/10/2016 & 12/15/2016	Yes	No	Debris & Sag		
		1/10/2017	Yes	No	Debris & Sag		
		2/20/2017	Yes	Yes	Exceeded 1952 Storm		
		4/7/2018	Yes	No	Debris & Sag		
		8/25/2018	No	N/A	Construction activities triggered sensor		
		10/9/2018 – 12/1/2018	No	No	Construction activities. Sensor removed during duration of Capacity upgrade.		
		5/18/2019	No	N/A	Construction activities triggered sensor		
		6/8/2019	No	No	Maintenance staff triggered sensor		

xi.	76 th Avenue and Bancroft Avenue	8/25/2016	No	N/A	Maintenance staff triggered sensor	Televised: 12-18-14, 9-29-17
		2/20/2017	Yes	Yes	Exceeded 1952 Storm	Cleaned: 5-28-14, 6-3-2015, 2-9-16, 6-22-16, 2-15-17, 9-29-17 Location on High Frequency Cleaning List Every 12 Months

* Locations in which the water level reached within one foot of the Maintenance Hole rim during the December 11, 2014 rain event. Rain event exceeded 1952 Storm.

** Project 1001173

*** Project 1001173 Task #2, Park Blvd and Spruce Street Sewer Capacity Upgrade project, construction completed on March 26, 2019.

† The following information was not included in FY2015-16's Annual Report, because of a recent finding. The City re-evaluated the 12/13/2015 trigger event and revised a conclusion that the trigger was not capacity related. The trigger was caused by construction activities on a sewer project downstream between December 7, 2015 and December 17, 2015. The construction activities included a sewer bypass, sewer pipe cleaning, and CIPP preparation setup for a 48" sewer line rehabilitation at San Pablo and West Grand Avenue. The bypass pump was set up between San Pablo Ave and West Grand Ave.

Additionally, a sewer relief line was constructed from City Project No. C59310 in 2010 to increase sewer capacity near the intersection of Jackson Street and 19th Street. The project split the sewer flows running north on Jackson Street; diverting a portion of the flow to continue north towards Lakeside Drive. Prior to the construction of these improvements, the sewer manhole 50-904-24 would experience high flow levels during high-intensity rain events. The constructed relief line added an alternative flow path from Jackson Street and 19th Street to the 60" trunk sewer line located on 20th Street to the north. The increased capacity provided by the new relief line has reduced the chance of a sanitary sewer overflow (SSO) at this location.

The City have undergone hydraulic analysis to determine the benefit the relief line provides. The City's hydraulic model was run under two scenarios, (1) without improvements and (2) with the relief line constructed. In both instances a 5yr-7hr design storm was used to evaluate sewer performance during a rainfall event. Under scenario (1), the hydraulic grade line (HGL) rose above the rim elevation at manhole 50-904-24, indicating that an SSO would occur. Under scenario (2), with the relief line constructed, the HGL lowered from 8.38 to 7.63 and below the manhole rim.

†† To mitigate the capacity deficiencies in the sewer pipes between Maybelle Avenue and Masterson Street, City has completed construction to upsized the existing 10-inch VCP sewer pipe to 14-inch HDPE pipe along Maybelle Avenue between Masterson Street and MacArthur Boulevard. These improvements substantially reduce the risk of a sanitary sewer overflow during wet-weather. In addition to the completed project, the City has also completed construction of upsizing approximately 47 linear feet of existing 10-inch VCP sewer pipe to 12" VCP at the intersection of Maybelle and Masterson on 5/28/2019. The City is proceeding with preparing construction plans for capacity upgrades between Maybelle Avenue, Porter Street and High Street, and construction is expected to commence in 2020.

††† Trestle Glen Road and Croed Road Sewer Capacity Upgrade project, construction completed on December 13, 2018.

**** The City proposes to delist the following five (5) mandatory monitoring locations where no capacity-related alarms have been triggered for more than one year since capacity upgrades were complete.

- San Pablo Avenue at 60th Street
- San Pablo Avenue at 62nd Street
- Grand Avenue and Harrison Street
- East 18th Avenue at 4th Avenue
- Maybelle Avenue and Masterson Street

5.2 Post SSO Inspection

Paragraph 167.b. of the CD requires that the Annual Report contain:

“Inspections: a statement that Oakland completed CCTV inspections downstream of each SSO location.”

During FY18/19, the City completed CCTV inspections downstream of each SSO.

5.3 Acute Defects

Paragraph 167.c. of the CD requires that the Annual Report contain:

“Acute Defects: a description of the activities to Repair Acute Defects...”

Paragraph 91 further provides:

“Acute Defects. The City of Oakland shall continue to repair Acute Defects as soon as possible, but no later than within one Year of identification.”

Acute Defects identified and completed in FY 2017-18 and 2018-19 are shown in Table 5-2 of Appendix C.

As detailed in Table 5-2, the following is a summary of activities related to acute defects.

- Nineteen (19) Acute Defects found in FY17-18:
 - All nineteen (19) acute defects were repaired in FY18/19 within one Year of identification;
- No Sanitary Sewer Overflows occurred because of delays in Repair of Acute Defects.
- Zero (0) Acute Defects found in FY18/19.

5.4 Sewer Main Cleaning

Paragraph 167.d. of the CD requires that the Annual Report contain:

“Sewer Main Line Cleaning: a description of activities conducted under its sewer cleaning program...”

Paragraph 92.b. further provides:

“Beginning July 1, 2018, and for the duration of the CD, the City shall clean at least 971,520 feet of Sewer Main per Fiscal Year on a cumulative basis (i.e., 971,520 feet by June 30, 2019; 1,943,040 by June 30, 2020; etc.). The City will determine which sewers to clean as long as a cumulative total of 971,520 feet of Sewer Main is cleaned each Fiscal Year. The cleaning frequency shall prevent the buildup of debris, roots, grease, or other material.”

As shown in Table 5-3a, in FY2018-19, 998,933 unique feet (189 miles) of Sewer Main were cleaned, which exceeds the CD requirement of 971,520 unique feet (184 miles).

Table 5-3a – Feet of Sewer Main Cleaned (Unique Feet)

Fiscal Year	Mains Cleaned*	Cumulative Total**	CD Requirement
FY 2013-14	544,051' (103 miles)	2,085,969' (395 miles)	1,900,800' (360 miles)
FY 2014-15	778,526' (147 miles)	2,864,495' (543 miles)	2,640,000' (500 miles)
FY 2015-16 ***	941,179' (178 miles)	3,777,533' (715 miles)	3,379,200' (640 miles)
FY 2016-17	625,001' (118 miles)	4,402,534' (834 miles)	4,118,400' (780 miles)
FY2017-18	501,139' (95 miles)	4,903,673' (929 miles)	4,903,673' (929 miles)
		<i>Reset to zero on July 1, 2018</i>	
FY2018-19	998,933' (189 miles)	998,933' (189 miles)	971,520' (184 miles)

Since Effective Date (September 22, 2014)***	4,150,417' (786 miles)	n/a	n/a
----------------------------------------------------	------------------------	-----	-----

* Mains Cleaned: Newly-unique feet cleaned during the FY. (Feet that had not been cleaned prior to the fiscal year; reset July 1, 2018.)

** Cumulative Total: Beginning FY18/19, reset to zero on July 1, 2018. In prior fiscal years, zero started on January 1, 2010. Updates to sewer GIS data are done throughout the year, and totals for prior fiscal years are not re-calculated based on the newer updates to sewer GIS data; therefore, the current cumulative total may not equal the prior cumulative total plus the total for the current fiscal year.

*** Since Effective Date: Unique feet cleaned September 22, 2014 through June 30, 2019. (Reset to zero at 9/22/14.) The length of a sewer main is counted once regardless of the number of times it is cleaned. Table 5-3a includes feet of sewer main that were cleaned only once during the timeframe, and also includes feet of sewer main that were cleaned more than once in the timeframe (Table 5-3b only includes feet of sewer pipe that were cleaned more than once). Numbers reflect updates to sewer GIS data.

Reference: Paragraph 92.a., Paragraph 167.d.i.

Table 5-3b – Feet of Sewer Main Cleaned More Than Once

Per Paragraph 167.d.ii., in this Table 5-3b, the length of a Sewer Main is counted once regardless of the number of times it is cleaned.

Fiscal Year	Mains Cleaned	Cumulative Total*	CD Requirement
FY 2014-15	379,663' (72 miles)	1,508,005' (286 miles)	n/a
FY 2015-16 **	411,287' (78 miles)	1,960,753' (371 miles)	n/a
FY 2016-17 **	325,672' (62 miles)	2,269,887' (430 miles)	n/a
FY 2017-18 **	281,057' (53 miles)	2,544,909' (482 miles)	n/a
FY 2018-19 **	258,786' (49 miles)	2,892,629' (548 miles)	n/a

* Cumulative Total: Starting January 1, 2010

** Updates to sewer GIS data are done throughout the year. Totals for prior fiscal years were not re-calculated based on the newer updates to sewer GIS data. The pipes that are cleaned more than once in a fiscal year may be the same or different in each fiscal year, and the calculation is specific to each fiscal year. For example, pipe A may have been cleaned twice in FY2014-15 and twice in 2015-16, so its footage is included in each fiscal year's calculation; whereas pipe B may have been cleaned once in FY 2014-15 and twice in FY2015-16, so its footage is only included in the FY 2015-16 calculation. The cumulative total would include pipe A only once and pipe B only once, which is why the current cumulative total cannot be calculated by combining the prior cumulative total and the total for the current fiscal year.

Table 5-3c Feet of Sewer Main Cleaned, Including Repeat Cleanings

Per Paragraph 167.d.iii., in this Table 5-3c, the length of a Sewer Main is multiplied by the number of times it is cleaned.

Fiscal Year	Mains Cleaned	Cumulative Total*	CD Requirement
FY 2014-15	2,017,932' (382 miles)	6,486,856' (1,229 miles)	n/a
FY 2015-16 **	2,361,494' (447 miles)	8,799,050.32' (1,666 miles)	n/a
FY 2016-17 **	1,854,591 (351 miles)	10,656,915' (2,018 miles)	n/a
FY 2017-18 **	1,670,390' (316 miles)	12,355,381' (2,340 miles)	n/a
		Reset to zero on July 1, 2018 per paragraph 196.d.iii.	
FY 2018-19 **	1,383,101' (262 miles)	1,383,101' (262 miles)	n/a

* Cumulative Total: Beginning FY 2018-19, reset to zero on July 1, 2018. In prior fiscal years, zero started on January 1, 2010.

** Updates to sewer GIS data are done throughout the year, and totals for prior fiscal years are not re-calculated based on the newer updates to sewer GIS data; therefore, the current cumulative total may not equal the prior cumulative total plus the total for the current fiscal year.

5.5 Root Cleaning (Foaming)

Paragraph 167.e. of the CD requires that the Annual Report contain:

“Root Cleaning: a description of the activities conducted under Oakland’s root control program, including the feet of Sewer Main treated for root control cumulatively and in each Fiscal Year beginning July 1, 2013.”

Paragraph 92.e. further provides:

“For the first three Fiscal Years, the City of Oakland shall treat a minimum of 264,000 feet of Sewer Mains per Fiscal Year on a cumulative basis (i.e., 264,000 feet by June 30, 2014; 528,000 feet by June 30, 2015; and 792,000 feet by June 30, 2016.)”

The City has been treating sanitary sewer mains to reduce instances of excessive root infiltration. The root-foaming program uses an herbicide which penetrates root cell walls and causes them to decay and die. This treatment destroys roots that have infiltrated sewer mains that can cause stoppages and damages.

From 2011 to 2015, the root-cleaning program selected pipes for treatment based on a non-targeted, basin-wide approach. Beginning in FY 2015-16, the City revised its pipe selection process to more efficiently target pipes and avoid treating pipes known to be clear of roots. Selection of pipes within the system for root foam treatment is based primarily on observation of roots from CCTV inspections. Other selection criteria include:

1. Priority is given to pipes within easements.
2. All pipes in a sub-basin are treated if a significant number of pipes are affected by root intrusion as indicated in CCTV inspections.
3. Pipes will not be selected for root foaming if the pipe has been rehabilitated within the last five years.
4. Pipes will not be selected for root foaming if the pipe will be rehabilitated within five years or the pipe resides in the hot spot list.

As of June 30, 2019, the City had root foamed 1,651,849 feet (312.9 miles) of Sewer Mains, which exceeds the CD requirement of 1,584,000 feet (300 miles). Results of the City’s root-cleaning program are as follows in Table 5-4:

Table 5-4 Root Control Program Implementation

Fiscal Year	Mains Assessed		Cumulative Total		CD Requirement	
FY 2013-14	304,811’	(57.7 miles)	304,811’	(57.7 miles)	264,000’	(50 miles)
FY 2014-15	352,176’	(66.7 miles)	656,987’	(124.4 miles)	528,000’	(100 miles)
FY 2015-16	146,784’	(27.8 miles)	803,771’	(152.2 miles)	792,000’	(150 miles)
FY 2016-17	423,361’	(80.2 miles)	1,227,132’	(232.4 miles)	1,056,000’	(200 miles)
FY 2017-18	100,525’	(19.0 miles)	1,327,657’	(251.5 miles)	1,320,000’	(250 miles)
FY 2017-18	324,192’	(61.4 miles)	1,651,849’	(312.9 miles)	1,584,000’	(300 miles)

Paragraph 92.e. further provides:

“By December 31, 2016, the City shall submit an evaluation of its root control program to EPA for review and approval. The evaluation shall consider the need to treat additional or fewer Sewer Mains to address results from cleaning and CCTV. The evaluation shall propose refinements to the City’s root control program in order to ensure excessive roots in the Collection System are controlled.”

On December 9, 2016, the City submitted an evaluation report of the root control program to EPA for review and approval. On February 27, 2017, EPA rejected the City’s proposal to foam 23.4 miles of sewer mains per year and was directed to continue treating 50 miles of sewer mains per year as specified in paragraph 92(e) of the CD. On February 28, 2017, the City submitted a request for technical feedback and reconsideration since there was no explanation of the rejection provided. The City is waiting for the Water Board and EPA to provide a more substantial response and is requesting reconsideration of a conditional approval. The root foam evaluation was data-driven and concluded 23.4 miles of pipe treatment annually is optimal for Oakland Sewer Collection System. It will not be the best use of the sewer service funds for the City to treat pipes that are not needed for the remainder of the CD. Stege Sanitary District was approved to reduce root foaming mileage requirements based on sewer main rehabilitated mileage.

5.6 Hot Spot Cleaning

Paragraph 167.f. of the CD requires that the Annual Report contain:

“Hot Spot Cleaning: description of activities conducted under its hot spot program, including feet of Sewer Main in the hot spot cleaning program and the range of cleaning frequencies for Sewer Main in the hot spot cleaning program;”

The City’s High Frequency cleaning program includes 207,677 feet (39.33 miles) of Sewer Mains which are cleaned every three (3) to twelve (12) months. Between July 1, 2018 and June 30, 2019, the City’s sewer crews cleaned 361,104 feet (68 miles) of Sewer Mains as part of the High Frequency sewer cleaning program.

5.7 Fats, Oil and Grease (FOG) Control

Paragraph 167.g. of the CD requires that the Annual Report contain:

“FOG: a description of activities to control FOG in the Collection System; a list of any SSOs that were thought to be associated with FOG or excessive buildup of grease, a list of FOG locations referred to EBMUD for investigation, and any actions that were taken against food service establishments related to inadequate FOG controls.”

The City’s FOG Control Program is described in Section 3.3 of its AMIP. The City identifies and reports FOG problems to EBMUD. EBMUD investigates and inspects FOG sources and works with food service establishments (FSEs) to correct FOG problems. Non-compliant FSEs are referred to the City for enforcement action.

In FY18/19, 19 SSOs were thought to be associated with FOG as listed in Appendix A. These locations were referred to EBMUD for investigation as shown in Table 5-5.

The City did not receive any referrals for FOG-related enforcement action during the reporting period.

Table 5-5 FOG-Related SSOs

CIWQS Event ID	Address
849613	3745 Foothill BLVD Oakland Ca, 946221
849894	9th St & Mandela Parkway Oakland, CA, 94607
849918	14th ST & Castro St Oakland, CA, 94612
850712	209 Cairo Rd Oakland.CA, 94603
850844	5652 Ascot Dr. Oakland, CA, 94611
850942	3456 Boston Ave Oakland 94602
850944	2842 London Rd Oakland, CA,94602
851103	2050 Broadway Oakland Ca,94621
852124	140 Maiden Lane, Oakland Ca, 94612
853291	82nd Ave and Iris Street Oakland ca
854687	565 Bellevue Ave Oakland, Ca. 94610
854696	879 58th Street Oakland, Ca. 94608
854731	3801 Telegraph Avenue Oakland Ca,94621
854813	2800 Rawson Street Oakland Ca. 94619
855084	578 Grand Avenue Oakland, Ca. 94610
855101	5300 Walnut St. Oakland Ca,94612
855820	125 2nd Street Oakland, Ca. 94607
856392	3336 E.16th St. Oakland Ca,94621
858507	401 15th Street Oakland Ca

5.8 Pump Station Renovation

Paragraph 167.g of the CD requires that the Annual Report contain:

“Pump Stations: a description of pump station renovation and upgrades required by the Pump Station Reliability Plan during the previous Fiscal Year and a description of projects to be completed in the following Fiscal Year.”

Paragraph 94 further requires:

“The City shall complete improvements described in the Plan by October 15, 2022.”

The city's collection system has ten (10) small pump/lift stations. Renovation of the Tidewater Pump Station was completed in 2012. Renovation of the Hegenberger, Shepherd Canyon, and Fallon Pump Stations was completed in 2018.

Design work on the Denton Place, Parkridge Drive, and Skyline Blvd pump stations was completed in FY18/19. Due to high construction costs, the construction of the remaining three pump/lift stations will be scheduled in FY20-21. The completion of all pump stations will be completed by 2021, prior to the required deadline of October 2022.

Section 6. Deliverables

Date Submitted	Description	Comments Received
9/30/15	Annual Report FY14/15	N/A
10/02/15	Annual Report FY14/15 Amendment	7/18/16, Comments addressed on 9/19/16
6/30/16	Regional Standards	None
9/30/16	Annual Report FY15/16	8/29/17, Comments addressed as part of Annual Report FY16/17
12/9/16	Root Control Program Evaluation Report	2/28/17. Requests for a 2 nd Response
12/16/16	RTSP Notification Response (Non-Linear High Priority Source Plan)	None
4/18/2018	EPA/RWQCB submitted Demand Letter	
6/14/18	Transmittal letter in response to EPA/RWQCB Demand Letter dated 4/18/2018 for payment of stipulated penalties	None
8/8/2018	EPA stated no response to FY16-17 annual report.	
8/31/18	Response letter to EPA/RWQCB Letter dated 4/18/2018 inquiring on additional stipulated penalties	None
7/03/19	Response letter to EPA/RWQCB Letter dated July 1, 2019 addressing the areas of concern identified by the EPA and Regional Board dated May 6, 2019.	None

- On December 9, 2016, the City submitted an evaluation report of the root control program to EPA for review and approval. On February 27, 2017, EPA rejected the City's proposal to foam 23.4 miles of sewer mains per year and directed the City to continue treating 50 miles of sewer mains per year as specified in paragraph 92(e) of the CD. The City requests for a more substantial response and reconsideration of the request for a conditional approval. No response has been provided to date.
- On December 16, 2016, the City submitted the City of Oakland's response to EBMUD's 2015/2016 RTSP Annual Satellite Notification for the period of July 1, 2015 to June 30, 2016 to EPA and EBMUD. The response provides the Non-Linear High Priority Source Plan.
- On June 14, 2018, the City submitted a transmittal letter with payment in response to EPA/RWQCB Demand Letter dated 4/8/2018. Payment made under dispute.
- On August 31, 2018, the City submitted a letter in response to EPA/RWQCB Demand Letter dated 4/8/2018 for further reply of additional stipulated penalties.

- On July 3, 2019, the City submitted a letter in response to 2 reports dated May 6, 2019 concerning the City's compliance with the areas of work required by the CD on sanitary sewer overflow response and sewer rehabilitation.

Section 7. Known Non-Compliance with CD

Paragraph 142 of the CD requires that the Annual Report contain:

“A description of any known noncompliance by that Defendant with this CD during the reporting period.”

In FY2018-19, the City is in full compliance with CD.

Section 8. Assessment of Stipulated Penalties

Paragraph 186 of the CD requires that the Annual Report contain:

“For each SSO reaching waters of the United States, a stipulated penalty may be assessed as follows, with “gallons” referring to the total size of the overflow, spill or release:

Penalty Per SSO for SSOs totaling:		
Less than 1,000 gallons	1,000 to 9,999 gallons	10,000 gallons or more
\$200	\$1,000	\$25,000

In FY18/19, the total volume reaching surface waters was 82,109 gallons from 17 SSO events as shown in Table 8-1. The total potential assessed stipulated penalty from FY18/19 for SSOs Reaching Waters of United States is \$79,400 as detailed below:

Table 8-1 – SSOs That Reached Waters of United States

FY	# of SSOs for SSOs totaling Less than 1,000 gallons	# of SSOs for SSOs totaling 1,000 to 9,999 gallons	# of SSOs for SSOs totaling 10,000 gallons or more
FY 2017-18	12	2	3
Potential Assessed Stipulated Penalty	\$2,400	\$2,000	\$75,000
Total Potential Assessed Stipulated Penalty from FY 2018-19	\$79,400		

Paragraph 172 of the CD provides:

“If the Annual Report documents that any of the obligations subject to stipulated penalties may not have been complied with, and a Defendant takes the position that potentially applicable stipulated penalties should not be assessed, that Defendant may include in the Annual Report an explanation as to why Plaintiffs should forego collecting such penalties; ... ”

The City requests that stipulated penalties be waived for the SSO events that reached surface waters. The spills were generally occurred due to non-point source FOG and debris loading, and several occurred during heavy wet-weather events. In addition, one of the three largest spills was caused by damage to the utility not caused by the City. The City has been meeting the cleaning and rehabilitation goals annually since FY 2014, and continues to see a decline in the overall numbers of SSO events within its collection system. Assessment of stipulated penalties will divert funding from I/I reduction efforts, training for SSO response and reporting, and public outreach, and negatively impact the City’s ability meet future operational goals and requirements. If Plaintiffs disagree with this position, the City would appreciate the opportunity to discuss assessment of any potential penalties and provide additional explanations of its position.

Section 9. Recommended Changes to Required Work

Paragraph 143 of the CD requires that the Annual Report contain:

“Any recommended changes to the Work required of that Defendant by this CD, including any proposed material modifications to any Deliverable.”

Since December 9, 2016 in the Root Control Program Evaluation Report and subsequent Annual Reports, the City proposed to foam 23.4 miles of sewer mains per year instead of the 50 miles of sewer mains per year as specified in paragraph 92(e) of the CD. The City continues to provide this recommendation.

The City proposes to delist the following five (5) mandatory monitoring locations where no capacity-related alarms have been triggered for more than one year since capacity upgrades were complete.

- San Pablo Avenue at 60th Street
- San Pablo Avenue at 62nd Street
- Grand Avenue and Harrison Street
- East 18th Avenue at 4th Avenue
- Maybelle Avenue and Masterson Street

Appendix Summary

Appendix	Table Name	Table Number
A	List of Sanitary Sewer Overflows (SSOs) in FY18/19	
B	Notice to Abate Door Hanger & Sample Letter	Figure 4-3
C	Acute Defect Lists	Table 5-2
D	City-Owned Sewer Laterals	Table 4-6

Appendix A

List of Sanitary Sewer Overflows (SSOs) in FY18/19

SSO Event ID	Certification ID	Spill Location	Start Date	Est End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Reached Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
849613	742211	3745 Foothill BLVD Oakland Ca, 946221	2018.07.27 22.00.00	2018.07.28 12.15.00	2018.08.22 00.00.00	405	355	0	Unpaved surface	Grease Deposition (FOG)	null
849894	826286	9th St & Mandela Parkway Oakland, CA, 94607	2018.08.05 10.44.00	2018.08.05 12.54.00	2018.08.09 00.00.00	260	260	0	Separate Storm Drain, Street/Curb and Gutter	Grease Deposition (FOG)	null
849918	283372	14th ST & Castro St Oakland, CA, 94612	2018.08.06 08.00.00	2018.08.06 13.30.00	2018.08.20 00.00.00	4500	4400	0	Separate Storm Drain, Unpaved surface	Grease Deposition (FOG)	12" vcp main sewer overflowed onto an easement down to the freeway off ramp and into a storm drain. Staff recovered 4,400 gallons of wastewater and returned it to the collection system. 100 gallons soaked into the ground.
850095	742117	3521 Rubin Dr. Oakland, Ca. 94602	2018.08.10 10.20.00	2018.08.10 18.20.00	2018.08.23 00.00.00	240	40	0	Unpaved surface	Root Intrusion	null
850618	203616	Tiffin Rd & Whittle Ave Oakland, CA, 94602	2018.08.28 15.00.00	2018.08.28 18.00.00	2018.09.17 00.00.00	180	180	0	Separate Storm Drain	Vandalism	null
850712	457481	209 Cairo Rd Oakland CA, 94603	2018.08.30 11.45.00	2018.08.30 12.30.00	2018.09.28 00.00.00	187	0	0	Unpaved surface	Grease Deposition (FOG)	Two hundred and thirty-six gallons overflowed from manhole on an easement at this address. All two hundred and thirty-six gallons soaked into the dirt.
850790	109403	5640 Fernhoff Rd. Oakland, Ca. 94619	2018.08.28 09.06.00	2018.08.31 18.00.00	2018.09.20 00.00.00	4795	0	0	Unpaved surface	Other (specify below)	Spill was from the result of a tree trunk pushing against 8" VCP sanitary sewer conduit. Spill exited broken pipe and reentered main sewer at downstream opening.
850844	737369	5652 Ascot Dr. Oakland, CA, 94611	2018.09.05 20.00.00	2018.09.06 01.00.00	2018.09.17 00.00.00	1200	0	600	Drainage Channel; Surface Water	Grease Deposition (FOG)	null

SSO Event ID	Certification ID	Spill Location	Start Date	Est. End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Reached Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
850942	291124	3456 Boston Ave Oakland 94602	2018.09.11 09.30.00	2018.09.12 09.30.00	2018.09.19 00.00.00	489	0	0	Building or Structure	Grease Deposition (FOG)	480 gallons dripped in a 24-hour period from a lateral and soaked into the ground.
850944	822020	2842 London Rd Oakland, CA,94602	2018.09.12 19.00.00	2018.09.12 23.00.00	2018.09.19 00.00.00	480	0	480	Separate Storm Drain	Grease Deposition (FOG)	null
851103	162877	2050 Broadway Oakland Ca,94621	2018.09.11 08.00.00	2018.09.12 12.00.00	2018.12.27 00.00.00	500	500	0	Building or Structure	Grease Deposition (FOG)	null
851319	164156	3987 Oakmore Rd. Oakland Ca,94621	2018.09.25 12.15.00	2018.09.25 16.15.00	2018.10.04 00.00.00	360	0	0	Unpaved surface	Pipe Structural Problem/Failure	8" Main Sewer discharged from a clay pipe into the ground at this location.
851439	471330	Campus Dr. & Canyon Oaks Dr. Oakland Ca,94621	2018.10.01 10.22.00	2018.10.01 12.00.00	2018.10.04 00.00.00	490	0	490	Surface Water	Debris-General	8" Sanitary Sewer discharged from a man hole into a running Storm drain that leads down to Arroyo Viejo Creek.
851516	502284	106th Avonue & Sheldon St. Oakland Ca,94612	2018.10.07 09.50.00	2018.10.07 13.50.00	2018.10.10 00.00.00	660	0	660	Other (specify below)	Root Intrusion	Storm lines run to the San Francisco Bay.
851890	116005	7849 Greenly Drive, Oakland Ca, 94621	2018.10.03 08.00.00	2018.10.03 11.00.00	2018.10.31 00.00.00	20	20	0	Unpaved surface	Root Intrusion	Twenty gallons soaked into the ground at this location.
852094	242185	98 Crest Rd. Oakland Ca. 94611	2018.10.28 09.00.00	2018.10.28 12.15.00	2018.10.30 00.00.00	195	0	0	Unpaved surface	Root Intrusion	null
852124	535555	140 Maiden Lane, Oakland Ca, 94612	2018.10.19 09.10.00	2018.10.19 10.20.00	2018.11.14 00.00.00	70	70	0	Drainage Channel	Grease Deposition (FOG)	70 gallons overflowed from an eighth inch Slip line into a storm drain at this location. 70 gallons was captured and returned to the collection system.
852282	198177	100 Crest Rd Oakland, Ca. 94619	2018.10.29 12.15.00	2018.10.29 18.00.00	2018.11.14 00.00.00	248	0	0	Unpaved surface	Root Intrusion	null

SSO Event ID	Certification ID	Spill Location	Start Date	Est End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Reached Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
853291	491985	82nd Ave and Iris Street Oakland ca	2018.11.21 14.00.00	2018.11.21 17.00.00	2018.12.04 00.00.00	6499	0	6499	Separate Storm Drain	Grease Deposition (FOG)	null
854541	856979	12688 Brook Park Rd. Oakland Ca,94621	2018.12.18 14.55.00	2018.12.19 09.30.00	2018.12.31 00.00.00	21090	0	21090	Surface Water	Root Intrusion	Twenty-one thousand ninety gallons overflowed from an eight-inch Vitrified clay pipe on an easement. The sewage went down the hillside into, Redwood Creek. Tree roots obstructed the pipe.
854687	637051	565 Bellevue Ave Oakland, Ca. 94610	2018.12.25 15.15.00	2018.12.25 17.43.00	2018.12.27 00.00.00	565	10	555	Surface Water	Grease Deposition (FOG)	Storm drain and Lake Merritt.
854696	247964	879 58th Street Oakland, Ca. 94608	2018.12.21 14.30.00	2018.12.21 16.31.00	2018.12.27 00.00.00	120	120	0	Paved Surface	Grease Deposition (FOG)	null
854731	217118	3801 Telegraph Avenue Oakland Ca,94621	2018.12.22 14.00.00	2018.12.22 16.00.00	2018.12.27 00.00.00	15	12	0	Unpaved surface	Grease Deposition (FOG)	Fifteen gallons overflowed from an eight-inch vitrified clay pipe on to the ground. Twelve gallons was captured and returned to the collection system. Three gallons soaked into the ground.
854813	917505	2800 Rawson Street Oakland Ca. 94619	2018.12.27 10.53.00	2018.12.27 12.44.00	2018.12.28 00.00.00	560	560	0	Separate Storm Drain	Grease Deposition (FOG)	Main sewer seeped out from a man hole down into a storm system during dry weather. Staff plugged off down stream of storm line, discharged clean water to the storm line, flush the storm line, returned all of gray water to the sewer system.
854954	532523	36th Street and MLK JR. Way Oakland, Ca. 94609	2018.12.28 16.27.00	2018.12.28 18.57.00	2019.01.07 00.00.00	300	50	250	Separate Storm Drain	Inappropriate Discharge to CS	Separate storm drain.
855006	280337	138 Monte Cresta Oakland, Ca. 94611	2019.01.02 19.40.00	2019.01.02 22.00.00	2019.01.07 00.00.00	280	140	140	Separate Storm Drain	Root Intrusion	null
855084	576998	578 Grand Avenue Oakland, Ca. 94610	2019.01.06 16.00.00	2019.01.06 19.00.00	2019.01.09 00.00.00	900	0	900	Separate Storm Drain	Grease Deposition (FOG)	null

SSO Event ID	Certification ID	Spill Location	Start Date	Est End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Reached Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
855101	914478	5300 Walnut St. Oakland Ca,94612	2019.01.06 21.00.00	2019.01.06 22.15.00	2019.01.10 00.00.00	675	0	300	Street/Curb and Gutter; Surface Water	Grease Deposition (FOG)	Six hundred seventy-five gallons overflowed from an eight-inch clay pipe. Three hundred gallons was lost down the storm inlet at this location. Three hundred gallons was captured and returned back to the collection system. Large amounts of grease obstructed the main causing an overflow.
855236	125534	Golf Links Rd. & Grass Valley Rd. Oakland, Ca. 94605	2019.01.10 16.52.00	2019.01.10 19.22.00	2019.01.16 00.00.00	300	150	150	Separate Storm Drain	Root Intrusion	null
855515	694150	Perth Place & West View Dr. Oakland Ca,94621	2019.01.22 09.30.00	2019.01.22 12.00.00	2019.02.28 00.00.00	150	0	0	Unpaved surface	Debris-General	One hundred and fifty gallons overflowed from a manhole on an eight-inch vitrified clay pipe. One hundred and fifty gallons soaked into the hillside at this location. General debris obstructed the pipe causing the overflow.
855573	294608	5746 International Blvd. Oakland, Ca. 94621	2019.01.25 10.45.00	2019.01.25 13.45.00	2019.01.29 00.00.00	900	500	400	Separate Storm Drain	Other (specify below)	null
855672	132378	83rd Avenue & Iris Street Oakland Ca,94621	2019.01.16 17.15.00	2019.01.16 19.35.00	2019.02.21 00.00.00	240	240	0	Street/Curb and Gutter	Surcharged Pipe (Combined CS Only)	Two hundred and forty gallons overflowed from a Vitrified Clay Pipe on to the curb and gutter area. There was a capacity issue due to a storm event.
855673	397947	Perkins Street & Bellevue Street Oakland Ca,94621	2019.01.16 17.45.00	2019.01.16 22.00.00	2019.02.08 00.00.00	480	480	0	Street/Curb and Gutter	Surcharged Pipe (Combined CS Only)	Four hundred and eighty gallons overflowed from a eight-inch vitrified clay pipe. The pipe overflowed due to surcharging.
855761	215518	814 Mandana Oakland Ca,94621	2019.01.16 19.00.00	2019.01.16 23.00.00	2019.02.21 00.00.00	720	720	0	Street/Curb and Gutter	Surcharged Pipe (Combined CS Only)	Seven hundred and twenty gallons overflowed from a eight-inch vitrified clay pipe. Seven hundred and twenty gallons overflowed on to the curb and gutter at this location. sewage was captured and returned to collection system.

SSO Event ID	Certification ID	Spill Location	Start Date	Est. End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Reached Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
855820	295202	125 2nd Street Oakland, Ca. 94607	2019.01.30 07.30.00	2019.01.30 09.29.00	2019.02.01 00.00.00	238	238	0	Separate Storm Drain	Grease Deposition (FOG)	null
855902	110326	1034 Apgar Street Oakland, Ca.	2019.02.04 08.05.00	2019.02.04 11.30.00	2019.02.08 00.00.00	1635	1635	0	Paved Surface	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	Paved area in street.
856392	244220	3336 E. 16th St. Oakland Ca,94621	2019.02.22 19.00.00	2019.02.22 21.00.00	2019.02.28 00.00.00	2693	2693	0	Building or Structure	Grease Deposition (FOG)	Two thousand six hundred and ninety-three gallons overflowed from an six-inch vitrified clay pipe into basement garage at this location. Sewage was captured in the basement garage until the blockage was cleared. Grease obstructed the pipe causing the overflow.
856396	582701	12980 Brookpark Rd. Oakland, Ca. 94619	2019.02.24 08.00.00	2019.02.24 12.00.00	2019.02.27 00.00.00	1200	0	0	Unpaved surface	Root Intrusion	null
856783	548557	1322 Wellington St. Oakland Ca,94621	2019.03.01 15.15.00	2019.03.01 20.35.00	2019.05.24 00.00.00	120	40	80	Drainage Channel; Street/Curb and Gutter	Root Intrusion	Eighty gallons overflowed from an eight-inch vitrified clay pipe into a storm drain at this location. Sewage overflowed due to a pipe defect. Forty gallons was captured and returned to collection system.
856995	695975	5478 Manila Avenue Oakland Ca, 94621	2019.03.07 12.00.00	2019.03.07 13.00.00	2019.05.28 00.00.00	5	5	0	Street/Curb and Gutter	Root Intrusion	Five gallons was captured and returned in the collection system.
857123	252996	2960 Peralta Oaks CT. Oakland Ca,94621	2019.03.20 06.00.00	2019.03.20 22.34.00	2019.04.01 00.00.00	25060	0	25060	Other (specify below); Surface Water	Root Intrusion	Overflow came from manhole, 85-230-43, directly in the, Upper Elmhurst Creek. The Upper Elmhurst Creek, connects to the, San Leandro creek.
857433	670261	6188 Antioch Street Oakland Ca,94621	2019.03.29 08.30.00	2019.03.29 11.05.00	2019.04.12 00.00.00	95	95	0	Drainage Channel; Street/Curb and Gutter	Debris-General	Ninety-five gallons overflowed from an eight-inch vitrified clay pipe into to storm drain at this location. Ninety-five gallons spilled into a storm inlet at this location. Ninety-five gallons was captured and returned to the collection system.

SSO Event ID	Certification ID	Spill Location	Start Date	Est End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Rerouted Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
857434	213590	8141 Couch Street Oakland Ca,94621	2019.03.14 18.00.00	2019.03.14 22.00.00	2019.04.12 00.00.00	30	0	0	Other (specify below)	Debris-General	Thirty gallons seeped from a pin hole on the lamp hole cover onto a concrete drainage channel, in the rear of the property. Waste was captured in the rear of the property.
857470	673150	9527 Walnut Avenue Oakland Ca,94621	2019.03.11 18.00.00	2019.03.11 19.40.00	2019.04.09 00.00.00	270	270	0	Drainage Channel	Debris-General	Two hundred and seventy gallons overflowed from a eight-inch vitrified clay pipe into a storm drain at this location. Staff back flushed storm pipe and captured lost sewage, and returned waste water to the collection system.
857793	329874	4326 Arden PL Oakland CA	2019.04.20 17.00.00	2019.04.20 18.30.00	2019.04.30 00.00.00	90	0	90	Surface Water	Pipe Structural Problem/Failure	Salsa Creek
857799	952026	7181 Thorndale Dr Oakland Ca	2019.04.14 09.22.00	2019.04.19 16.00.00	2019.05.04 00.00.00	22500	0	22500	Other (specify below)	Vandalism	Spill discharged into a storm inlet, down into the creek and down to Lake Temescal.
857801	233413	2938 68th ave Oakland Ca,	2019.04.20 11.00.00	2019.04.20 11.40.00	2019.04.30 00.00.00	20	0	0	Paved Surface	Debris-General	null
857816	540187	3900 Carrington St. Oakland Ca,94621	2019.04.16 07.22.00	2019.04.16 08.52.00	2019.04.30 00.00.00	90	90	0	Other (specify below)	Root Intrusion	Ninety gallons overflowed from a area drain at this address. All ninety gallons was captured and returned to the collection system.
857940	128717	3701 Broadway Oakland Ca,94621	2019.04.26 16.05.00	2019.04.26 16.57.00	2019.05.24 00.00.00	156	156	0	Street/Curb and Gutter	Debris-Rags	null
858507	604588	401 15th Street Oakland Ca	2019.05.20 09.51.00	2019.05.20 12.20.00	2019.05.28 00.00.00	298	298	0	Building or Structure	Grease Deposition (FOG)	null
858697	904767	6470 Thornhill Dr. Oakland Ca,94621	2019.05.31 07.20.00	2019.05.31 13.50.00	2019.06.05 00.00.00	390	90	0	Other (specify below)	Root Intrusion	The overflow occurred on private property. The city's sewer main ran in the rear of the property at this location. There was concrete and dirt in the rear of the property. Three hundred and ninety gallons spilled, three hundred gallons was captured and returned to the collection system. Ninety gallons soaked into the dirt in the rear of the property.
858698	586475	6167 Contra Costa Rd.	2019.05.30 10.19.00	2019.05.30 17.00.00	2019.06.05 00.00.00	401	0	0	Other (specify below);Unpaved surface	Root Intrusion	The overflowed occurred on an easement in the rear of the property. Sewage soaked into the dirt at this location

SSO Event ID	Certification ID	Spill Location	Start Date	Est End Date	Certification Date	Spill Volume	Spill Volume Recovered	Spill Vol Remedied Surf	Final Spill Destination	Spill Cause	Final Spill Destination Explanation
858776	421884	Oakland Ca,94621 907 Glendone Circle Oakland Ca,94621	2019.06.02 14.00.00	2019.06.02 17.30.00	2019.06.10 00.00.00	210	0	0	Unpaved surface	Debris-General	Sewage spilled from the garage down the hillside of property. The main sewer was obstructed with debris and rock.
858837	314242	2828 Aljida St. Oakland Ca,94621	2019.06.06 09.11.00	2019.06.06 17.00.00	2019.06.10 00.00.00	935	935	0	Other (specify below)	Other (specify below)	M/S Plugged and caused an Overflow into the basement where it was contained. We returned all of the overflow gray water to the Sanitary Sewer system.
858888	763213	2096 Mountain Blvd Oakland Ca, 94611	2019.06.06 11.30.00	2019.06.06 13.30.00	2019.06.12 00.00.00	180	180	0	Other (specify below)	Debris-General	The Overflow was contained in the corner of the parking lot.
858894	140962	655 MacArthur Blvd Oakland Ca 94608	2019.06.10 13.30.00	2019.06.10 17.30.00	2019.06.12 00.00.00	400	400	0	Other (specify below)	Debris-General	M/S Discharged from M/S out on to the ground and into the gutter. Staff contained the overflow in the gutter area and returned to the Sanitary Sewer System.
859462	289765	5968 Johnston Dr. Oakland Ca	2019.06.25 15.30.00	2019.06.25 19.00.00	2019.06.28 00.00.00	200	0	0	Other (specify below)	Root Intrusion	8" M/S discharged from a clean out and soaked into the ground.
859486	280908	8036 Shephard Canyon Rd Oakland Ca	2019.06.23 09.51.00	2019.06.24 16.35.00	2019.07.03 00.00.00	20	5	0	Other (specify below)	Root Intrusion	The M/S discharged out of a clean out and soaked into the ground.
859552	809403	4374 Whittle Ave Oakland Ca	2019.06.20 08.30.00	2019.06.20 11.30.00	2019.07.03 00.00.00	5	0	0	Paved Surface	Root Intrusion	Gray water seeped from a Lamp Hole and soaked into the ground.

Appendix B

Figure 4-3 – Door Hanger Notice & Sample Final Notice to Abate Letter

Back Side

Front Side



CITY OF OAKLAND

**ATTENTION RESIDENT
AND/OR MERCHANT
PLEASE CONTACT US**

This notice is to inform you that our Sewer Maintenance Division will need to access your property for the following reason:

Inspect our City main and/or structures
Repair our City main and/or structures
Dye-test your service lateral from inside your residence/building.
Other:

Pursuant to Section 13.08.100 of the Oakland Municipal Code, please take the necessary steps to correct the complaint/identified defect, immediately. Failure to do so could result in a threat to public health and safety, and may result in legal and/or financial consequences.

To schedule an appointment, or for additional information on Contractors, and/or funding programs, please contact our office Mon-Fri 7:00am to 3:30pm, at (510)615-5969.

Thank you,
Crew Leader _____ Date: _____

To request service from the Public Works Department please contact our OAK311 call center by:

Phone: Call 311 from any phone within Oakland. (If you are calling from outside Oakland, continue to use the number (510) 615-5566.)

E-mail: OAK311@oaklandnet.com

Web: 311.oaklandca.gov

App: OAK 311, available free for Apple and Android smart devices (powered by SeeClickFix)

Oakland Public Works – Sewer Maintenance Division



Oakland Public Works • Design, Engineering and Construction • Right of Way Management

Sewer & Sidewalk Division • 250 Frank H. Ogawa Plaza, Suite # 4314 • Oakland, California 94612 • (510)238-3651

14 Day Notice to Abate

Date

Name

Address

Oakland, CA 94607-2225

Re: Sewer Lateral at Address, Oakland

Dear Property Owner,

You are hereby notified that under the provisions of Section 13.08.540 of the Oakland Municipal Code¹ and in the opinion of the Director of Public Works Agency, the public health, safety, and welfare require repairs to your building sewer lateral.

The dye test conducted on **date** from the caved in area of the street at **address** by the City's Sewer Maintenance Division noted that the dye did appear in the City sewer main which indicates that the private sewer lateral servicing your home is in need of repair. This is a public health hazard and must be corrected. You are required to repair or replace your building's private sewer lateral no later than **date**.

The completed repairs must restore the subject-building sewer to a watertight condition, free of breaks or separations and constructed to proper grade and alignment. An inspection must be performed by the Construction Inspector to assure that the repairs meet the code requirements.

Prior to repairing or replacing a sewer lateral, you must have a Building Sewer Inspection Permit and/or a Street Excavation Permit if the repairs are to be completed in the public right-of-way.

If you have already made the repairs please provide proof of the repairs, you may fax it to 510-238-6632.

Questions concerning this matter should be directed to Fred Loeser, Construction Inspection Supervisor, at (510) 238-6348 or email floeser@oaklandnet.com.

Sincerely,

Fred Loeser,
Supervisor, Construction Inspection

/ts

SEC. 13.08.540 EMERGENCY WORK BY CITY, NOTICE, LIABILITY FOR COST OF WORK

Whenever, in the opinion of the Director of Public Works Agency, the Public Health, safety, or welfare shall require that repairs or protective measures to a building sewer be made or instituted immediately, the Director is hereby authorized to proceed with all necessary work to abate the condition and may enter upon private property for such purposes. The City may erect and maintain all necessary barricades, warning lights, and the protective devices upon public or private property. The City will give the owner of the premises upon which the repairs are to be made, or the protective measures to be instituted, such notice, if any, and by such means as the circumstances shall permit.

The owner of the property upon which the condition exists and the person creating such condition shall be jointly and severally liable to the City of Oakland for all costs incurred by it in abating said emergency condition and erecting and maintaining said protective devices.

The cost of abating such condition shall constitute a special assessment against the real property on which said condition was abated. The special assessment shall be made in the manner set forth in Section 13.08.280 of the Oakland Municipal Code using the Notice of Lien as found in Section 13.08.330.

(As added by Ordinance No. 10877 C.M.S., passed June 23, 1987)

Appendix C

Table 5-2 – Acute Defects Identified and Completed in FY 2017-18 and 2018-19

Asset ID	Date Identified	Date Completed	Days to Completion	Address	Street	PACP Defect Code
SEPI18182	11/29/2017	5/30/2018	182	6434	BUENA VENTURA	BVV, Broken void visible
SEPI17614	11/27/2017	7/9/2018	224	930	LARKSPUR RD.	CIP, MANY PROBLEMS, BROKEN PIPE
SEPI27568	11/20/2017	10/22/2018	336		THOMAS AVE. & MONROE AVE.	BVV, Broken void visible
SEPI2376	11/17/2017	9/18/2018	305	1900	96TH AVE.	BVV, Broken void visible
SEPI9183	11/13/2017	10/3/2018	324	3153	HERRIOTT AVE.	BVV, Broken void visible
SEPI24230	11/7/2017	10/30/2018	357		40TH ST. & SHAFTER	BVV, Broken void visible
SEPI7405	10/18/2017	10/21/2017	3		37TH AVE. & INTERNATIONAL	BVV, Broken void visible
SEPI17594	10/17/2017	8/6/2018	293	872	NORTHVALE	BVV, Broken void visible
SEPI26663	10/16/2017	11/6/2017	21	6860	PASO ROBLES DR.	BVV, Broken void visible
SEPI18293	10/4/2017	8/27/2018	327	4010	OAKMORE RD	BVV, Broken void visible
SEPI11998	9/28/2017	8/21/2018	327	3890	LOMA VISTA	BVV, Broken void visible
SEPI7416	9/19/2017	9/22/2017	3		39TH AVE & INTERNATIONAL	BVV, Broken void visible
SEPI17699	9/15/2017	8/15/2018	334	872	ROSEMOUNT RD.	BVV, Broken void visible
SEPI231	9/12/2017	7/19/2018	310		EMPIRE RD. & CAIRO	BVV, Broken void visible
SEPI20473	9/7/2017	7/13/2018	309	689	CARLSTON AVE.	BVV, Broken void visible
SEPI3148	7/21/2017	4/6/2018	259		INTERNATIONAL - NEAR 84TH AVE	BVV, Broken void visible
SEPI11066	7/18/2017	6/18/2018	335		PARK WAY E8TH TO E10TH	BVV, Broken void visible
SEPI15710	7/7/2017	5/23/2018	320	4021	WOODRUFF & HAMPEL	BVV, Broken void visible
SEPI25775, 25776	7/3/2017	5/10/2018	311		BROADWAY TERRACE (2 LOCATIONS)	BVV, Broken void visible

Appendix D

Table 4-6 – Repair/Rehab Schedule for City-Owned Sewer Laterals

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
1	Sanborn (Carmen Flores) Recreation Center	1637 Fruitvale Ave	5601	25-722-26	346	2/19/2019	C329152-2
2	Dimond Branch Library	3565 Fruitvale Ave 94602	5602	29A-1302-14		7/1/2019	1000715-Tsk7
3	Fire Station #14	3459 Champion St	5602	28-905-13-2		7/1/2019	The facility sold.
4	Fire Station #14 Storage Building	3460 Champion St	5603	28-905-13-3		7/1/2019	The facility sold.
5	Fire Station #25	2795 Butters Dr	5606	29-1161-25	67	6/7/2019	1000715-Tsk7
6	Fire Station #25 Exercise Building	2795 Butters Dr	5606	29-1161-25	40	6/7/2019	1000715-Tsk7
7	Joaquin Miller Park-The Abbey	3082 Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral
8	Joaquin Miller Park-Fire Circle Restroom	3540 Joaquin Miller Rd	5606	29-1200-6-3	371	5/9/2017	C329152-Task Order 1
9	Joaquin Miller Park-Sanctuary to Memory	3540 Joaquin Miller Rd	5606	29-1200-6-3	213	5/9/2017	C329152-Task Order 1
10	Joaquin Miller Community Center	3594 Sanborn Dr	5606	29-1200-6-3	216.5	5/9/2017	C329152-Task Order 1
11	Joaquin Miller Park-415 Society Trailer	3540 Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral
12	Joaquin Miller Park-Meadow Restroom	3540 Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	Cesspool-Not connected to the City sewer system
13	Joaquin Miller Park-Shipping Container (2)	3540 Joaquin Miller Rd	5606	29-1200-6-3	363	5/9/2017	C329152-Task Order 1
14	Joaquin Miller Park-Storage	3540 Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
15	Joaquin Miller Park-Storage Barn	3540 Joaquin Miller Rd	5606	29-1200-6-3	50	5/9/2017	C329152-Task Order 1
16	Ranger Station	3590 Sanborn Dr	5606	29-1200-6-3	166	5/9/2017	C329152-Task Order 1
17	Sequoyah Lodge	2666 Mountain Blvd	5606	29-1200-6-3		7/1/2019	1000715-Tsk7
18	Joaquin Miller Park-Woodminster Cascades	Joaquin Miller Park, 3300 Joaquin Miller Road 94602	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1
19	Woodminster Theater	3300 Joaquin Miller Park 94603	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1
20	Woodminster Theater-Concession Booth	Joaquin Miller Park 94603	5607	29-1200-6-3		5/9/2017	No Sewer Lateral
21	Woodminster Theater - Restroom	3300 Joaquin Miller Rd	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1
22	Joaquin Miller Park-PAL Cabin 1	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
23	Joaquin Miller Park-PAL Cabin 2	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
24	Joaquin Miller Park-PAL Cabin 3	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
25	Joaquin Miller Park-PAL Cabin 4	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
26	Joaquin Miller Park-PAL Cabin 5	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
27	Joaquin Miller Park-PAL Cabin 6	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
28	Joaquin Miller Park-Redwood Glen Restroom	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
29	Joaquin Miller Park-Rotary	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
30	Joaquin Miller Park-Metropolitan Horseman's Association Clubhouse	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
31	Joaquin Miller Park-Rotary Day	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
32	Joaquin Miller Park-Rotary Day Camp	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
33	Joaquin Miller Park-Sequoia Arena Restroom	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
34	Joaquin Miller Park-Siniwak Cabin	10900 Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
35	San Antonio Park Head Start Center	1701 East 19th St	6003	20-295-1	1,037	7/1/2019	1000715-Tsk7
36	San Antonio Recreation Center	1701 East 19th St	6003	20-295-1		7/1/2019	1000715-Tsk7
37	Manzanita Head Start Center	2701 – 22nd Ave	6008	22-364-21		7/1/2019	1000715-Tsk7 No lateral
38	Manzanita Head Recreation Center	2701 – 22nd Ave	6008	22-364-21	40	7/2/2019	1000715-Tsk7
39	Union Point - South Parking Lot (haz mat under pavement)	2311 Embarcadero	6103	18-505-1		4/9/2019	No sewer lateral (C329152-2)
40	Union Point - Union Hill (haz mat under hill)	2311 Embarcadero	6103	18-505-1		4/9/2019	Facility connect directly on top of 6" sewer main. The sewer is in a fair condition and no repair is needed. (C329152-2)

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
41	Animal Shelter (new)	1101 – 29th Ave	6202	25-880-1-6 (19-0093-016-02)	151	2/14/2019	Replaced all laterals and did not receive the EBMUD PSL certificate because another facility is in the same parcel but it is not part of Appendix H1 locations list (C329152-2).
42	Peralta House	2465 – 34th Ave	80022	27-878-2	25	4/9/2019	C329152-2
43	Coolidge House	2496 Coolidge Ave	80022	27-878-1	88	4/9/2019	C329152-2
44	Peralta Hacienda Park-Community Center	2500 - 34th Ave 94601	80022	27-878-2	20	4/9/2019	C329152-2
45	Peralta Hacienda Park-House	2465 34th Ave	80101	27-899-1	173	4/9/2019	C329152-2
46	Peralta Hacienda Park-Restroom	2465 34th Ave	80101	27-899-1	56	4/9/2019	C329152-2
47	55th Avenue Head Start Center	1800 55th Ave	82004	38-3228-5-1		4/8/2019	No Sewer lateral. (C329152-2)
48	Fremont Pool and Building	4550 Foothill Blvd 94601	82004	35-2401-2	37	4/18/2019	C329152-2
49	Fremont Pool - Locker Rooms & Mechanical Room	4550 Foothill Blvd 94601	82004	35-2401-2	35	4/18/2019	C329152-2
50	Melrose Branch	4805 Foothill Blvd 94601	82004	35-2384-1	30	4/10/2019	C329152-2
51	Fire Station #18	1700 – 50th Ave	82005	35-2386-18	25	4/18/2019	C329152-2
52	Rainbow Teen Center	5818 International Blvd	83002	38-3234-12-3	14	3/13/2019	C329152-2
53	Rainbow Recreation Center	5800 International Blvd 94621	83201	38-3234-7-1	10	3/13/2019	C329152-2
54	Burckhalter Park-Restroom	4060 Edwards Ave	83404	40A-3441-36-5	145	6/25/2019	1000715-Tsk7

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
55	McCrea Park Residence and Restroom	4460 Shepherd St	83501	37-2605-87	50	5/20/2019	1000715-Tsk7
56	McCrea Park-Fly Casting Pools	4460 Shepherd St 94619	83501	37-2605-87		7/1/2019	1000715-Tsk7 No lateral
57	Redwood Heights Rec Center	3883 Aliso Ave 94619	83501	30-1869-58-3	360	7/1/2019	1000715-Tsk7
58	Leona Lodge	4444 Mountain Blvd	83502	37-2605-90	265	6/17/2019	1000715-Tsk7
59	81st Avenue Branch Library	1021 81st Ave	84003	41-4211-1-3	63	12/10/2018	Replaced all laterals and did not receive the EBMUD PSL certificate because another facility is in the same parcel but it is not part of Appendix H1 locations list (C329152-2).
60	Carter Gilmore Park - New Restroom	1390 – 66th Ave	84191	41-4132-15-3	112	10/31/2018	Replaced all laterals and did not receive EBMUD PSL certificate because a 8" sewer main in this parcel needs to be tested in order to get the PSL for the whole parcel (C329152-2).
61	Fire Station #29	1016 – 66th Ave	84101	41-4062-12	42	11/15/2018	C329152-2
62	Fire Station #29 Garage	1016 – 66th Ave	84101	41-4062-12	42	11/15/2018	C329152-2
63	Martin Luther King Branch Library	6833 International Blvd 94621	84101	41-4132-15-1	52	11/9/2018	C329152-2
64	Officer Willie Wilkins Park - Restroom	9710 C Street	85202	44-4981-9	139	12/14/2018	C329152-2
65	Fire Station #20	1401 – 98th Ave	85205	46-5424-26	90	11/21/2018	C329152-2
66	Elmhurst Branch Library	1427 – 88th Ave 94621	85211	43-4580-8	65	12/13/2018	C329152-2
67	Dunsmuir House-Barn	2960 Peralta Oaks Ct	85231	48-5658-3-2			
68	Dunsmuir House-	2960 Peralta Oaks Ct	85231	48-5658-3-2			

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
	Carriage House						
69	Dunsmuir House-Chauffeur's house	2960 Peralta Oaks Ct	85231	48-5658-3-2			
70	Dunsmuir House-Chicken Coop	2960 Peralta Oaks Ct	85231	48-5658-3-2			
71	Dunsmuir House-Dinkelspiel House	2960 Peralta Oaks Ct	85231	48-5658-3-2			In construction (1000715-Tsk7)
72	Dunsmuir House-Gardener's House	2960 Peralta Oaks Ct	85231	48-5658-3-2			
73	Dunsmuir House-Mansion	2960 Peralta Oaks Ct	85231	48-5658-3-2			
74	Dunsmuir House-Milk House	2960 Peralta Oaks Ct	85231	48-5658-3-2			
75	Dunsmuir House - Pavilion	2958 Peralta Oaks Ct	85231	48-5658-3-2			
76	Dunsmuir House-Restroom	2960 Peralta Oaks Ct	85231	48-5658-3-2			
77	Dunsmuir House-Ticket Boot	2960 Peralta Oaks Ct	85231	48-5658-3-2			
78	Lake Chabot-Clubhouse	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
79	Lake Chabot-Fromer Cartaker's Mobile Home	near 11450 Golf Links Rd	85231	48-5813-3-4	926	8/8/2019	(C329152-2)
80	Lake Chabot-Maintenance Building A	near 11450 Golf Links Rd	85231	48-5813-3-4	50	7/23/2019	(C329152-2)
81	Lake Chabot-Maintenance Building B	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
82	Lake Chabot-Maintenance Building C	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)

No.	Facility Name	Address	Sub-Basin No.	Parcel Number	Length (feet)	Completion Date	Remark
83	Lake Chabot-Maintenance Building D	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
84	Lake Chabot-Maintenance Building E	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
85	Lake Chabot-Maintenance Building F	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
86	Lake Chabot-Restroom #1	near 11450 Golf Links Rd	85231	48-5813-3-4	474	7/26/2019	In construction (C329152-2)
87	Lake Chabot-Restroom #2	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
88	Lake Chabot-Restroom #3	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
89	Lake Chabot-Sewer Pump Station	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
90	Lake Chabot-Snack Bar	near 11450 Golf Links Rd	85231	48-5813-3-4			In construction (C329152-2)
91	Sheffield Village Rec Center	247 Marlow Dr 94605	85231	48-6140-1			
92	Columbian Gardens Tot Lot	Heskett Rd & Empire Rd	86001	45-5322-30 (08-02)	77	4/12/2019	C329152-2
93	Ira Jinkins (Brookfield) Rec Center	9175 Edes Ave 94603	86002	44-5053-1-6	376	12/21/2018	See East Oakland Sports Center Complex (C329152-2).
94	East Oakland Sports Center Complex	9175 Edes Ave	86002	44-5053-1-6	116	1/23/2019	Replaced all laterals and did not receive the EBMUD PSL certificate because Brookfield-Senior Center is in the same parcel as Sport Center Complex but it is not part of Appendix H1 locations list (C329152-2).
95	Spunkmeyer Field Restroom	Harbor Bay Pkwy & Doolittle Dr	87001	42-4404-11-2	168	1/30/2019	Replaced the upper lateral. Inspected the lower lateral (8" sewer main) and found it is in a fair condition. No repair is needed (C329152-2).

