

February 26, 2021

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108

Subject: 2020 Pretreatment Annual Report for the Point Loma POTW
Board Order No. R9-2017-0007

Dear Mr. Gibson:

An amended San Diego Wastewater Pretreatment Program Annual Report is hereby submitted in accordance with the requirements of NPDES Permit No. CA0107409, adopted by the Regional Water Quality Control Board on April 12, 2017 and issued by the U.S. Environmental Protection Agency on October 1, 2017. Because flows from industries tributary to the South Bay Water Reclamation Plant can be diverted to the Point Loma POTW, this Report also includes data for industries tributary to the South Bay Water Reclamation Plant and Ocean Outfall.

The City is committed to protecting public health and the environment through a program of environmental management, which includes source control, wastewater treatment, an improved ocean outfall, and extensive monitoring. One key element of the program is an aggressive pretreatment and pollution prevention program to minimize toxic discharges to the sewerage system. This report includes a summary of Pretreatment Program activities and accomplishments throughout jurisdictions tributary to the Metropolitan Sewerage System, which includes the Point Loma Wastewater Treatment Plant, the North City Water Reclamation Plant, and the South Bay Water Reclamation Plant.

The Industrial Wastewater Control Program (IWCP) was created in 1982 after being formally approved by the U.S. Environmental Protection Agency. Since that time, significant enhancements have been made to the program including: (1) implementation of an Enforcement Response Plan in 1987, (2) implementation of an Annual Local Limits Re-Evaluation in 1998, and (3) establishment of a focused Enhanced Source Control group in 2003. However, with the exception of these enhancements, the program has not changed significantly since its inception.

With the City's Pure Water Program coming on-line, the Public Utilities Department determined that critical evaluation of the IWCP and its effectiveness in protecting human and environmental health was necessary. In June 2018, the City embarked on an evaluation of the IWCP by engaging two external consultants with extensive experience in managing and evaluating large municipal pretreatment programs. The IWCP was evaluated for the following six areas including: (1) Permit processing, (2) Compliance inspection, (3) Compliance enforcement, (4) Industrial discharge monitoring, (5) Records management, and (6) Organization. Multiple areas for improvement were documented and IWCP started the process of implementing all consultant recommendations by increasing the staff and

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reorganizing the Program. IWCP expected to have all new staff hired in 2020 but due to the Pandemic the Program is hoping to have all staff hired in 2021. The Program has shifted its focus to have three programmatic components by giving each one its own designated work group: (1) Significant Industrial Users (SIUs); (2) Industries considered part of the Enhanced Source Control Program tributary to Point Loma with its NPDES permit and associated waiver from secondary treatment; and (3) Industries considered part of the Enhanced Source Control Program mandated by the Pure Water NPDES permit.

This report was generated using the current data available in the IWCP's Pretreatment Information Management System (PIMS). The consultants identified issues with how some data are managed within the PIMS, and actions to correct these deficiencies are underway. Until these corrections are made, the state of the data presented here is the most accurate the program is able to provide. However, the program has flagged data on several pages throughout the report to indicate numbers that are expected to change once programmatic improvements occur. Brief explanations regarding how and why numbers may change are provided where applicable.

Should you have any questions concerning the information provided herein, or wish to discuss the report in detail, please contact John Steger, Pretreatment Program Manager, at (858) 654-4103.

Sincerely,



Peter S. Vroom, Ph.D.
Deputy Director, Public Utilities Department

JAS/jn

cc: Juan Guerreiro, Executive Assistant Director of Public Utilities, City of San Diego
Joy Newman, Industrial Wastewater Control Program Manager, City of San Diego
R9Pretreatment@epa.gov

POTW PRETREATMENT ANNUAL REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name: City of San Diego

Report Date: March 1, 2021

Period Covered by This Report: January 1, 2020 to December 31, 2020

Period Covered by Previous Report: January 1, 2019 to December 31, 2019

Name of Wastewater Treatment Plant(s) South Bay Water Reclamation Plant

NPDES Permit Number CA 0109045

Person to contact concerning information contained in this report:

Name: John Steger

Title: Pretreatment Program Manager

Mailing Address: 9192 Topaz Way, MS 901D
San Diego, CA 92123-1119

Telephone No.: (858) 654-4103

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

02-25-2021
Date



Peter Vroom, Ph.D.
Deputy Director Public Utilities

PRETREATMENT ANNUAL REPORT

PCS Data Entry Form

PPS1

POTW NAME: City of San Diego South Bay Water Reclamation Plant and Ocean Outfall
Flows from this plant can be diverted to the City of San Diego EW Blom Point Loma Plant, NPDES Permit No. CA0107409; therefore, this information is also included in the PCS for that POTW.

NPDES Permit #: CA0109045

Period Covered by This Report: 01/01/20 (PSSD) 12/31/20 (PSED)
Start Date End Date

Number of Significant Industrial Users (SIU) in Significant Non-Compliance (SNC) with Pretreatment Compliance Schedule: 0 (SSNC)

Number of Notices of Violation (NOV) and Administrative Orders Issued Against SIUs: 19 (FENF)

Number of Civil & Criminal Judicial Actions against SIUs 0 (JUDI)

Number of SIUs with Significant Violations Published: 4 (SVPU)

Number of SIUs from Which Penalties Have Been Collected: 0 (IUPN)



SOUTH BAY WATER RECLAMATION PLANT & OCEAN OUTFALL PRETREATMENT ANNUAL REPORT

**NPDES PERMIT No. CA 0109045
SDRWQCB ORDER No. R9-2013-0006 AS AMENDED
BY ORDER No. R9-2014-0071
AND ORDER R9-2017-0023**

JANUARY 1 – DECEMBER 31, 2020

Environmental Monitoring and Technical Services
Public Utilities Department
2392 Kincaid Road Mail Station 45A
San Diego, CA 92101
Tel (619) 758-2310 • Fax (619) 758-2309



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ACRONYMS

| | |
|---------|-------------------------------------------------|
| BMP | Best Management Practice |
| BMR | Baseline Monitoring Report |
| BOD | Biochemical Oxygen Demand |
| CWA | Clean Water Act |
| DDW | Division of Drinking Water |
| EDR | Electrodialysis Reversal |
| GAPS | Grove Avenue Pump Station |
| GPD | Gallons Per Day |
| IBWC | International Boundary and Water Commission |
| IU | Industrial User |
| IW | Industrial Wastewater |
| IWCP | Industrial Wastewater Control Program |
| IWTP | International Wastewater Treatment Plant |
| MDL | Method Detection Limit |
| MGD | Million Gallons Per Day |
| Non-SIU | Non-Significant Industrial User |
| NOV | Notice of Violation |
| NPDES | National Pollutant Discharge Elimination System |
| ORPS | Otay River Pump Station |
| PLWTP | Point Loma Wastewater Treatment Plant |
| POTW | Publicly Owned Treatment Works |
| PSED | Pretreatment Summary Start Date |
| PSSD | Pretreatment Summary End Date |
| RO | Reverse Osmosis |
| RFP | Request for Proposal |
| SBWRP | South Bay Water Reclamation Plant |
| SIU | Significant Industrial User |
| SMR | Self-Monitoring Report |
| SNC | Significant Non-Compliance |
| SBOO | South Bay Ocean Outfall |
| TDS | Total Dissolved Solids |
| TOMP | Toxic Organics Management Plan |
| TRC | Technical Review Criteria |
| TSS | Total Suspended Solids |
| USEPA | United States Environmental Protection Agency |
| UV | Ultraviolet |

CHAPTER 1 – INTRODUCTION

1.1 Description of the South Bay Water Reclamation Plant and Its Service Area

The South Bay Water Reclamation Plant (SBWRP) is located on a 22-acre site near Dairy Mart Road and Monument Road in the eastern portion of the Tijuana River Valley. The site is just north of the international boundary between Mexico and the United States and less than a half mile west of the International Wastewater Treatment Plant (IWTP). The SBWRP treats raw wastewater collected from the southern portion of the City of San Diego, the City of Imperial Beach, the City of Chula Vista, and the unincorporated portions of south and east San Diego County, a total of approximately 44 square miles, and serves a population of about 110,000 people.

The plant is designed to treat up to 15 million gallons per day (MGD) of raw wastewater to secondary and/or tertiary reclaimed water standards. All SBWRP tertiary treated wastewater in excess of reclaimed water demands is discharged to the Pacific Ocean through the South Bay Ocean Outfall (SBOO). The SBOO was constructed for shared use by the IWTP, operated by the International Boundary and Water Commission (IBWC), and the City of San Diego's SBWRP. The SBOO extends westward approximately 23,600 feet from the mouth of the Tijuana River and terminates in a "wye" with two 1980-foot-long diffusers. The IWTP currently discharges a maximum of 25 MGD of secondary treated wastewater from the City of Tijuana. The total average design capacity of the outfall is 174 MGD with a peak hydraulic capacity of 233 MGD. The effluent from the SBWRP is combined with the effluent from the IWTP within the SBOO prior to discharge to the Pacific Ocean.

The SBWRP's primary and secondary processes consist of influent screening using mechanically cleaned bar screens, grit removal using aerated grit chambers, primary sedimentation clarifiers with chain and flight sludge collectors and tilting trough scum collectors, primary effluent flow equalization storage tanks, air activated sludge biological treatment with anoxic selector, and secondary clarifiers with chain and flight sludge collectors. The tertiary treatment process consists of filter feed pumping, coagulation with chemical addition, and direct filtration with conventional deep bed mono-media filters, backwash facilities, electrodialysis reversal (EDR) units, and disinfection using ultraviolet (UV) light. Sludge processing is handled at the Point Loma Wastewater Treatment Plant (PLWTP) and the Metropolitan Biosolids Center. Solids from the SBWRP are pumped to the PLWTP through the South Metro Interceptor.

The SBWRP began operations in 2002, accepting an average of 3.5 MGD influent through the Grove Avenue Pump Station (GAPS). In October 2003 the Otay River Pump Station (ORPS) came on-line. The ORPS is divided into two pumping streams, with one sending high total dissolved solids (TDS) flows from the Imperial Beach Sewer directly to the South Metro Interceptor influent to the PLWTP, and the other sending flows from the Otay Trunk Sewer and Salt Creek Trunk Sewer to the GAPS. Since start-up, the ORPS facility has been directing nearly 5 MGD to the GAPS, which combines with the more than 3 MGD GAPS flow for a total of nearly 8 MGD influent to the SBWRP. Since some wastewater from areas tributary to the GAPS and ORPS can be diverted to the PLWTP via the South Metro Interceptor, facilities tributary to the GAPS and ORPS are included in Annual Pretreatment Reports for both plants.

In 2017, the SBWRP installed two refurbished EDR units to provide for TDS and chloride removal, but several issues affecting their performance has limited the ability to run the two units to about 50% of the time. The results have indicated success reducing chloride but not sodium.

SBWRP management has approved a project to replace the EDRs with Reverse Osmosis (RO) units. The City is planning to advertise a request for proposal (RFP) for design engineering services for the RO project soon.

The facility did not produce recycled water in the first 6 months of the year due to the replacement of the UV units finalized in April 2020. The Division of Drinking Water (DDW) accepted the Title 22 Engineering Report Addendum for the new UV system with the April 2020 results, and established operating conditions and a requirement to submit an operations plan. The operations plan was submitted in June 2020, and after its approval, the facility was enrolled by the Regional Board under Order R9-2019-0005 Waiver No. 2 – Discharge to Land of Recycled Water, SBWRP on June 30, 2020. The waiver allows the plant to produce recycled water until a new permit is drafted, provided the discharge complies with both the general and specific conditions in the waiver. Recycled water production, distribution, and monitoring recommenced in July 2020.

CHAPTER 2 – PROGRAM STRUCTURE

2.1 Pollution Prevention Plan Requirements

No significant industrial users (SIUs) have been required to prepare or implement a pollution prevention plan as the result of non-compliance.

2.2 Programs San Diego has Implemented to Reduce Pollutants from non-SIUs

The City controls pollutants discharged by non-Significant Industrial Users (non-SIUs) and by non-industrial sources through a combination of Class 2 and 3 permits, Best Management Practice (BMP) Certification programs, and Hazardous Waste Collection events and facilities throughout the Metropolitan Sewerage System service area in cooperation with contributing agencies. For details, see Chapters 2 and 3 of the Annual Report for the Point Loma Publicly Owned Treatment Works (POTW).

2.3 Pretreatment Program Changes

Changes in administrative structure are found in Chapter 2 of the Annual Report for the Point Loma POTW.

2.4 Annual Pretreatment Program Budget

The pretreatment program budget is administered as a single budget for the three treatment plants in the Metropolitan Sewerage System service area. See Chapter 2, Section 2.3 of the Annual Report for the Point Loma POTW, for details.

CHAPTER 3 – DISCHARGE PERMITS

3.1 Active Permits

The Industrial Wastewater Control Program (IWCP) implements an industrial wastewater discharge permit system for the City of San Diego and 11 other Participating Agencies. At the end of the year IWCP administered 30 permits for facilities tributary to the SBWRP in class 1, 2, and 3. The facilities classified in class 2F, 4C, 4Z, 4M, 4, and 5 do not require a permit. The inventory of facilities is shown in Table 3.1-1. See Chapter 3 of the Pretreatment Annual Report for the Point Loma POTW for further details.

| Table 3.1-1 Permit Inventory by Class and Flow | | | | | | | | | | |
|------------------------------------------------|---------|----------|---------|---------|----------|---------|---------|----------|----------------|----------|
| Class | Class 1 | | Class 2 | | | Class 3 | | | Total | |
| Area | SIU | IW (GPD) | SIU | Non-SIU | IW (GPD) | SIU | Non-SIU | IW (GPD) | No. of Permits | IW (GPD) |
| 12 | 3 | 224 | 0 | 6 | 14,654 | 8 | 2 | 364,597 | 19 | 379,475 |
| 13 | 0 | 0 | 1 | 8 | 21,935 | 0 | 1 | 3,268 | 10 | 25,203 |
| 36 | 1 | 33,375* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 33,375 |
| Total | 4 | 33,599 | 1 | 14 | 36,589 | 8 | 3 | 367,865 | 30 | 438,053 |

*The Pio Pico Energy Center facility is geographically located in Area 36; however, the facility does not discharge industrial wastewater to the SBWRP. Industrial flows and monitoring data are reported under its trucked waste permit (#25-0379). See Chapter 3 of the Annual Report for the Point Loma POTW, NPDES Permit No. CA 0107409 for details.

| Table 3.1-2 Facilities with BMP Authorizations and/or No Permit Required | | | | | | | | | |
|--------------------------------------------------------------------------|----------|----------|----------|----------|----------|---------|---------|-------|--|
| Area | Class 2F | Class 4C | Class 4D | Class 4Z | Class 4M | Class 4 | Class 5 | Total | |
| 12 | 1 | 5 | 0 | 0 | 9 | 83 | 25 | 123 | |
| 13 | 0 | 0 | 0 | 0 | 12 | 55 | 7 | 74 | |
| 36 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | |
| Total | 1 | 5 | 0 | 0 | 22 | 139 | 32 | 199 | |

3.2 Changes in SIU Inventory

| Table 3.2-1 Changes in SIU Inventory | |
|---------------------------------------------|------|
| FACILITIES that BECAME SIUs: | None |
| SIU FACILITIES INACTIVATED: | None |
| SIU FACILITIES that REPORTED a NAME CHANGE: | None |
| FORMER SIU FACILITIES THAT BECAME NON-SIUs: | None |

3.3 Baseline Monitoring Reports

| Table 3.3-1 Baseline Monitoring Reports (BMR) Requested or Received | |
|---------------------------------------------------------------------|--|
| No BMRs were requested or received during the reporting period | |

| Table 3.3-2 Facilities Operating under a BMR | | |
|----------------------------------------------|-----------------------------|--------------|
| Facility # | Facility Name | BMR Received |
| 12-0144 | AP Precision Metals | 17-Apr-2001 |
| 12-0154 | Heinz Frozen Foods | 30-Aug-2002 |
| 36-0001 | Otay Mesa Energy Center LLC | 20-Jun-2007 |
| 12-0202 | Spec-Built Systems Inc | 28-Jun-2005 |
| 12-0244 | Harcon Precision Metals Inc | 17-Jun-2010 |

SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection

Report run on: Tuesday, January 21, 2020 11:43 am

Class 1

| Facility Permit | Name | IW Discharged (gpd) | Conn | Principle Process | Federal/Local | CFR Part | CFR Section | Order | Pre Treat Code |
|-----------------|-----------------------------|---------------------|------|--------------------------------------|---------------|----------|-------------|-----------------------|---------------------------------------|
| 12-0144 05-A | AP Precision Metals | 128 | 110 | Metal Coating (Iron Phosphating) | Federal | 433 | .17 | 1 2 3 | FILT-O SETTLE PH |
| 12-0202 04-A | Spec-Built Systems Inc | 26 | 110 | Iron Phosphating | Federal | 433 | .17 | 1 2 3 | SETTLE RECYL PH |
| 12-0244 03-A | Harcon Precision Metals Inc | 70 | 110 | Conversion coating & assoc processes | Federal | 433 | .17 | 1 2 3 4 5 | PH MIXER SETTLE HAUL EVAP |
| 36-0001 03-A | Otay Mesa Energy Center LLC | 33,375 | 110 | WetSac blowdown + OWS | Federal | 423 | .17 | 1 2 | SETTLE PH |
| | | | 120 | PCB zero discharge | Federal | 423 | .17 | 1 | ZERO |
| | | | 140 | Turbine washing | Federal | 423 | .17 | 1 | SETTLE |

SIUs: 4

Class 2

| Facility Permit | Name | IW Discharged (gpd) | Conn | Principle Process | Federal/Local | CFR Part | CFR Section | Order | Pre Treat Code |
|-----------------|--------------------------|---------------------|------|-------------------------|---------------|----------|-------------|----------------------------|----------------------------------------------------|
| 13-0549 02-A | UT; Brenntag Pacific Inc | 10,080 | 100 | Groundwater Remediation | Local | 101 | | 1 2 3 4 5 6 | O/W SETTLE CENT BIO+O2 FILT-O ADS-C |

SIUs: 1

Class 3

| Facility Permit | Name | IW Discharged (gpd) | Conn | Principle Process | Federal/Local | CFR Part | CFR Section | Order | Pre Treat Code |
|-----------------|--------------------------------------------|---------------------|------|--------------------------------------|---------------|----------|-------------|-----------------------|---------------------------------------------|
| 12-0038 06-A | RJ Donovan Correctional Facility | 13,700 | 100 | Prison Sewer Main | Local | 133 | | 1 2 3 | GRIND SCREEN SOURCE |
| 12-0065 05-A | Emerald Textiles LLC | 79,194 | 110 | Commercial Laundry | Local | 133 | | 1 2 3 4 | LINT SETTLE HAUL RECYL |
| 12-0154 05-A | Kraft Heinz Foods Company | 102,142 | 110 | Food Manufacturing | Local | 137 | | 1 2 3 4 5 | EQUAL SCREEN DAF+C GREASE HAUL |
| 12-0212 02-A | Tarantino Wholesale Food Distributors | 7,112 | 100 | Sewer Lateral | Local | 137 | | 1 2 3 | EQUAL SCREEN HAUL |
| | | | 210 | Sausage manufacturing | Local | | | 1 2 3 | SETTLE HAUL ELBOW |
| 12-0220 05-A | Ajinomoto Foods North America Inc | 76,000 | 110 | Food manufacturing | Local | 137 | | 1 2 3 4 | EQUAL SCREEN DAF+C SD-FP |
| 12-0275 03-A | Jensen Meat Company Inc | 18,478 | 110 | Meat processing, cleaning/sanitizing | Local | 137 | | 1 2 3 4 5 | SCREEN ELBOW SETTLE HAUL DIVRTA |
| 12-0283 03-A | Spectex Inc dba Specialty Textile Services | 47,853 | 110 | Commerical Laundry | Local | 133 | | 1 2 3 | SETTLE LINT UF |

SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection

Report run on: Tuesday, January 21, 2020 11:43 am

Class 3

| <i>Facility Permit</i> | <i>Name</i> | <i>IW Discharged (gpd)</i> | <i>Conn</i> | <i>Principle Process</i> | <i>Federal/ Local</i> | <i>CFR Part</i> | <i>CFR Section</i> | <i>Order</i> | <i>Pre Treat Code</i> |
|------------------------|------------------------------------------------|--------------------------------|-------------|--------------------------|---------------------------|---------------------|------------------------|--------------|---------------------------|
| 12-0285 03-A | US General Services Administration - SYLPOE | 50 | 110 | Waste activated sludge | Local | | | 1 | SCREEN |
| | | | | | | | | 2 | EQUAL |
| | | | | | | | | 3 | BIO-AS |
| | | 120 | | Untreated wastewater | Local | | | 1 | SCREEN |
| | | | | | | | | 1 | SCREEN |
| | | | | | | | | 2 | EQUAL |
| | | 130 | | Treated wastewater | Local | | | 3 | BIO-AS |
| | | | | | | | | 4 | UF |
| | | | | | | | | 5 | UV |
| | | | | | | | | 6 | HAUL |

SIUs: 8

SIU Facilities: Regulated Parameters by Connection

Report run on: Tuesday, January 5, 2021 3:55 pm

| Facility | Pmt | Name | Address | Conn | Total IW (gpd) | Parmcode | City freq | Self freq | Cat | Period | Lower Limit | Upper Limit | Units |
|----------|------|------------------------------------------|-----------------------------------------|------|-------------------|----------------------------------------------------------------------------|-----------------------|------------------|-----------------------|----------------------------|----------------|-----------------------------------------|------------------------------------------|
| 12-0038 | 06-A | RJ Donovan Correctional Facility | 480 Alta Rd, San Diego | 100 | 13,700 | OIL/GREASE PH | H H | Q Q | L L | DM DM | | 500 12.5 | mg/L pH |
| 12-0065 | 05-A | Emerald Textiles LLC | 1725 Dornoch Ct Suite 100, San Diego | 110 | 79,194 | OIL/GREASE PH PH HIGHEST SULFIDE DISSOLVD | Q Q Q Q | Q Q L L | L L L L | DM DM DM DM | 5 | 500 12.5 12.5 1 | mg/L pH pH mg/L |
| 12-0144 | 05-A | AP Precision Metals | 1215 30th St, San Diego | 110 | 128 | CADMIUM | Q | Q | F | DM | | .11 | mg/L |
| | | | | | | CHROMIUM | Q | Q | F | DM | | .07 2.77 | mg/L mg/L |
| | | | | | | COPPER | Q | Q | F | DM | | 1.71 3.38 | mg/L mg/L |
| | | | | | | CYANIDE(T) | Q | Q | F | DM | | 2.07 1.2 | mg/L mg/L |
| | | | | | | LEAD | Q | Q | F | DM | | .65 .69 | mg/L mg/L |
| | | | | | | NICKEL | Q | Q | F | DM | | .43 3.98 | mg/L mg/L |
| | | | | | | PH SILVER | Q Q | Q Q | L F | DM DM | 5 | 12.5 .43 | pH mg/L |
| | | | | | | TTO(413+433)-P ZINC | A Q | Q Q | F F | DM DM | | .24 2130 2.61 | mg/L ug/L mg/L |
| 12-0154 | 05-A | Kraft Heinz Foods Company | 7878 Airway Rd, San Diego | 110 | 102,142 | OIL/G SCREEN OIL/GREASE PH PH HIGHEST SULFIDE DISSOLVD TEMP | N Q Q M Q | | A M M L L | DM DM DM DM DM | | 500 500 12.5 12.5 1 65.5 | mg/L mg/L pH pH mg/L DegC |
| 12-0202 | 04-A | Spec-Built Systems Inc | 2150 Michael Faraday Dr, San Diego | 110 | 26 | CADMIUM | S | Q | F | DM | | .11 | mg/L |
| | | | | | | CHROMIUM | S | Q | F | DM | | .07 2.77 | mg/L mg/L |
| | | | | | | COPPER | S | Q | F | DM | | 1.71 3.38 | mg/L mg/L |
| | | | | | | CYANIDE(T) | S | Q | F | DM | | 2.07 1.2 | mg/L mg/L |
| | | | | | | LEAD | S | Q | F | DM | | .65 .69 | mg/L mg/L |
| | | | | | | NICKEL | S | Q | F | DM | | .43 3.98 | mg/L mg/L |
| 12-0202 | 04-A | Spec-Built Systems Inc | 2150 Michael Faraday Dr, San Diego | 110 | 26 | PH SILVER | S S | Q Q | L F | DM DM | 5 | 12.5 .43 | pH mg/L |
| | | | | | | TTO(413+433)-P ZINC | A S | Q Q | F F | DM DM | | .24 2130 2.61 | mg/L ug/L mg/L |
| 12-0212 | 02-A | Tarantino Wholesale Food Distributors | 7651 Saint Andrews Av, San Diego | 100 | 3,146 | OIL/GREASE PH PH HIGHEST SULFIDE DISSOLVD | Q Q Q Q | H H L H | L L L L | DM DM DM DM | 5 | 500 12.5 12.5 1 | mg/L pH pH mg/L |
| | | | | 210 | 3,966 | OIL/GREASE PH PH HIGHEST | Q Q Q | H L L | L L L | DM DM DM | 5 | 500 12.5 12.5 | mg/L pH pH |
| 12-0220 | 05-A | Ajinomoto Foods North America Inc | 8411 Siempre Viva Rd, San Diego | 110 | 76,000 | OIL/G SCREEN OIL/GREASE PH PH HIGHEST SULFIDE DISSOLVD TEMP | N Q Q M Q | | O M L L L | DM DM DM DM DM | | 500 500 12.5 12.5 1 65.5 | mg/L mg/L pH pH mg/L DegC |

SIU Facilities: Regulated Parameters by Connection

Report run on: Tuesday, January 5, 2021 3:55 pm

| Facility | Pmt | Name | Address | Conn | Total IW (gpd) | Parmcode | City freq | Self freq | Cat | Period | Lower Limit | Upper Limit | Units |
|----------|------|---------------------------------------------|----------------------------------------|------|-------------------|------------------|--------------|--------------|-----|--------|----------------|----------------|-------|
| 12-0244 | 03-A | Harcon Precision Metals Inc | 1790 Dornoch Ct, San Diego | 110 | 70 | CADMIUM | S | S | F | DM | .11 | | mg/L |
| | | | | | | CHROMIUM | S | S | F | DM | .07 | | mg/L |
| | | | | | | | | | | MO | 2.77 | | mg/L |
| | | | | | | COPPER | S | S | F | DM | 1.71 | | mg/L |
| | | | | | | | | | | MO | 3.38 | | mg/L |
| | | | | | | CYANIDE(T) | S | S | F | DM | 2.07 | | mg/L |
| | | | | | | | | | | MO | 1.2 | | mg/L |
| | | | | | | LEAD | S | S | F | DM | .65 | | mg/L |
| | | | | | | | | | | MO | .69 | | mg/L |
| | | | | | | NICKEL | S | S | F | DM | .43 | | mg/L |
| | | | | | | | | | | MO | 3.98 | | mg/L |
| | | | | | | OIL/GREASE | S | S | L | DM | 2.38 | | mg/L |
| | | | | | | PH | S | S | L | DM | 500 | | mg/L |
| | | | | | | SILVER | S | S | F | DM | 5 | 12.5 | pH |
| | | | | | | | | | | MO | .43 | | mg/L |
| | | | | | | TTO(413+433)-P | A | S | F | DM | .24 | | mg/L |
| | | | | | | ZINC | S | S | F | DM | 2130 | | ug/L |
| | | | | | | | | | | MO | 2.61 | | mg/L |
| 12-0275 | 03-A | Jensen Meat Company Inc | 2550 Britannia Bl Suite 101, San Diego | 110 | 18,478 | OIL/GREASE | Q | Q | L | DM | 1.48 | | mg/L |
| | | | | | | PH | Q | Q | L | DM | 5 | 12.5 | pH |
| | | | | | | PH HIGHEST | Q | | L | DM | 12.5 | | pH |
| | | | | | | SULFIDE DISSOLVD | Q | | L | DM | 1 | | mg/L |
| 12-0283 | 03-A | Spectex Inc dba Specialty Textile Services | 1333 30th St Suite A, San Diego | 110 | 47,853 | OIL/GREASE | Q | Q | L | DM | 500 | | mg/L |
| | | | | | | PH | Q | Q | L | DM | 5 | 12.5 | pH |
| | | | | | | PH HIGHEST | S | | L | DM | 12.5 | | pH |
| | | | | | | SULFIDE DISSOLVD | Q | Q | L | DM | 1 | | mg/L |
| 12-0285 | 03-A | US General Services Administration - SYLPOE | 720 E San Ysidro Bl, San Diego | 110 | 50 | SULFIDE DISSOLVD | Q | Q | L | DM | 1 | | mg/L |
| | | | | | | TSS | Q | M | L | DM | 10000 | | mg/L |
| 13-0549 | 02-A | UT; Brenntag Pacific Inc | 1888 Nirvana Av, Chula Vista | 100 | 10,080 | 3CLETHE | Q | Q | L | DM | 26 | | ug/L |
| | | | | | | 4CLETHE | Q | Q | L | DM | 700 | | ug/L |
| | | | | | | BNZ(W/OAGG) | Q | Q | L | DM | 50 | | ug/L |
| | | | | | | BTEX | Q | Q | L | DM | 750 | | ug/L |
| | | | | | | FLOW MAX | | M | L | DM | 10080 | | gpd |
| | | | | | | FLOW RATE MAX | | M | L | DM | 20 | | gpm |
| 36-0001 | 03-A | Otay Mesa Energy Center LLC | 606 De La Fuente Ct, San Diego | 110 | 33,357 | CHROMIUM | Q | Q | F | DM | .2 | | mg/L |
| | | | | | | OIL/GREASE | Q | Q | L | DM | 500 | | mg/L |
| | | | | | | PH | Q | Q | L | DM | 5 | 12.5 | pH |
| | | | | | | PH HIGHEST | N | | L | DM | 12.5 | | pH |
| | | | | | | TDS | S | Q | L | DM | 2000 | | mg/L |
| | | | | | | ZINC | Q | Q | F | DM | 1 | | mg/L |
| | | | | 140 | 8 | COPPER | S | S | F | DM | 1 | | mg/L |

Active NonSIU Permits

Report run on: Tuesday, January 5, 2021 3:33 pm

Class 2

| Facility | Permit | Name | Address |
|----------|--------|---------------------------------------------|-------------------------------------------|
| 12-0140 | 02-A | Kaiser Foundation Health Plan | 4652 Palm Av, San Diego |
| 12-0143 | 04-A | ADESA California LLC dba ADESA San Diego | 2175 Cactus Rd, San Diego |
| 12-0145 | 05-A | Larkspur Energy LLC | 9355 Otay Mesa Rd, San Diego |
| 12-0177 | 02-A | Truck Net LLC | 8490 Avenida De La Fuente, San Diego |
| 12-0254 | 01-A | Northwest Circuits Corp | 8660 Avenida Costa Blanca, San Diego |
| 12-0298 | 01-A | Advanced ElectroMagnetics Inc | 1320 Air Wing Rd Suite 101, San Diego |
| 13-0008 | 06-A | Sharp Chula Vista Medical Center | 751 Medical Center Ct, Chula Vista |
| 13-0048 | 04-A | Hyspan Precision Products | 1685 Brandywine Av, Chula Vista |
| 13-0278 | 04-A | Republic Services dba Allied Waste Services | 881 Energy Wy, Chula Vista |
| 13-0298 | 04-A | Chula Vista Energy Center LLC | 3497 Main St, Chula Vista |
| 13-0316 | 03-A | Fuller Ford Kia | 560 Auto Park Dr, Chula Vista |
| 13-0327 | 03-A | Dresser-Rand | 1675 Brandywine Av Suite E&F, Chula Vista |
| 13-0533 | 01-A | Fleetwash Inc | 649 Anita St Suite 1A, Chula Vista |
| 13-0534 | 01-A | Super Welding of Southern California | 609 Anita St, Chula Vista |

14

Class 3

| Facility | Permit | Name | Address |
|----------|--------|--------------------|--------------------------|
| 12-0024 | 04-A | US Border Patrol | 3752 Beyer Bl, San Diego |
| 12-0028 | 02-A | Palm Ave LLC | 1835 Palm Av, San Diego |
| 13-0439 | 02-A | Toyota Chula Vista | 650 Main St, Chula Vista |

3

Grand total: 17

Active Groundwater Permits

Report run on: Tuesday, January 5, 2021 3:30 pm

Class 2

| Facility | Permit | Name | Address |
|----------|--------|--------------------------|------------------------------|
| 13-0549 | 02-A | UT; Brenntag Pacific Inc | 1888 Nirvana Av, Chula Vista |

1

Grand total: 1

Zero Discharge from Categorical Operations

Report run on: Tuesday, January 5, 2021 3:34 pm

Class 4C

| Facility | Permit | Name | Address |
|----------|--------|----------------------------------------------|------------------------------------------|
| 12-0067 | 04-A | Resideo Technologies Inc. | 2055 Dublin Dr Suite 100, San Diego |
| 12-0094 | 06-A | Parker Hannifin Corp CSS Division | 7664 Panasonic Wy, San Diego |
| 12-0137 | 04-A | General Dynamics Global Imaging Technologies | 7603 Saint Andrews Av Suite H, San Diego |
| 12-0150 | 03-A | Leidos Innovations Corp | 1330 30th St Suite A-C, San Diego |
| 12-0167 | 04-A | Crower Cams & Equipment Co Inc | 6180 Business Center Ct, San Diego |

5

Grand total: 5

Film Processors subject to BMPs

Report run on: Tuesday, January 5, 2021 3:31 pm

Class 2F

| <i>Facility</i> | <i>Permit</i> | <i>Name</i> | <i>Address</i> |
|-----------------|---------------|-----------------------------|------------------------|
| 12-0231 | 01-A | Juvenile Detention Facility | 446 Alta Rd, San Diego |
| 1 | | | |

Grand total: 1

Dry Cleaners subject to BMPs

Report run on: Tuesday, January 5, 2021 3:28 pm

Grand total: 0

Dental Offices subject to Dental Amalgam BMPs

Class 4M

| <i>Facility</i> | <i>Permit</i> | <i>Name</i> | <i>Address</i> |
|-----------------|---------------|----------------------------|---------------------------------------------|
| 12-0103 | 03-A | Dental Arts of Palm Ave | 3388 Palm Av Suite 101, San Diego |
| 12-0121 | 02-A | Ismole Dental | 4370 Palm Av Suite C, San Diego |
| 12-0122 | 03-A | Carlos Garcia DDS | 1270 Picador Bl Suite L-M, San Diego |
| 12-0123 | 03-A | Southland Plaza Dental | 655 Saturn Bl Suite G |
| 12-0125 | 03-A | San Ysidro Dental Care | 2004 Dairy Mart Rd, San Diego |
| 12-0222 | 02-A | Jose L Lopez DDS Inc | 3490 Palm Av Unit 1, San Diego |
| 12-0314 | 01-A | Bajars & Bajars, DDS INC | 2930 Coronado Av Suite C, San Diego |
| 12-0315 | 01-A | South Bay Family Dental | 1850 Coronado Av Suite 404 |
| 12-0317 | 01-A | Cynthia Tuason DDS Inc | 1061 Saturn Bl Suite 103, San Diego |
| 13-0387 | 02-A | Perfecta Dental Group | 314 Palomar St, Chula Vista |
| 13-0388 | 02-A | Palomar Dental Group | 664 Palomar St Suite 1103, Chula Vista |
| 13-0472 | 02-A | Melrose Dental Care | 1456 Melrose Av, Chula Vista |
| 13-0558 | 01-A | Great Dental Group | 1310 3rd Av Suite A2, Chula Vista |
| 13-0559 | 01-A | Sunbow Family Dentistry | 1351 Medical Center Dr Suite B, Chula Vista |
| 13-0563 | 01-A | Southwest Dental | 1660 Broadway Suite 4 4, Chula Vista |
| 13-0575 | 01-A | John Tillner Dental Corp | 769 Medical Center Ct 200, Chula Vista |
| 13-0579 | 01-A | Latino Family Dental | 1635 3rd Av Suite D, Chula Vista |
| 13-0582 | 01-A | Guzman Dental Office | 2638 Main St Suite J, Chula Vista |
| 13-0588 | 01-A | Albert Broas DDS Inc | 1295 Broadway Suite 204, Chula Vista |
| 13-0617 | 01-A | Familiy First Dental Care | 1392 E Palomar St Suite 201, Chula Vista |
| 13-0622 | 01-A | Maroon Lopez DDS, PC | 2648 Main Street Suite A, Chula Vista |
| 36-0013 | 01-A | Otay Mesa Detention Center | 7488 Calzada de la Fuente. Otay Mesa |
| 22 | | | |

Grand total: 22

CHAPTER 4 – SIU ENFORCEMENT

4.1 Annual Compliance Summary

During the year covered in this report the program administered 13 SIU permits, covering 14 outfalls and monitored at 15 sample points. Four facilities were in significant non-compliance (SNC) during the year. These facilities are included in the calculation of the Metro System annual SNC rate reported in the Pretreatment Annual Report for the Point Loma POTW.

4.2 Characterization of the Compliance Status of Each SIU

The Annual SIU Compliance Status Report, which follows after section 4.4, lists the industry name, address, permit number, permit class; industrial flow by connection; violation dates and descriptions, if applicable; discharge standard and period, and actual value resulting in the violation; whether the violation exceeded the Technical Review Criteria (TRC); and whether the industry has been in SNC at any time during the year.

4.3 SIU Enforcement Actions Initiated, Continued, or Finalized

Jensen Meat Company Inc; IU # 12-0275

This meat processing facility discharges about 27,000 gpd after pretreatment from cleaning and sanitizing operations. The IU met the SNC criteria for the six-month period ending in the third quarter of 2019, when 5 of the 6 samples collected exceeded the daily maximum for dissolved sulfide by more than the TRC. The IU responded that its contractor concluded "we have too much decomposing or too much organic matter in our grease trap" and that they are taking several steps to improve their cleaning procedures including: jet-cleaning the drainpipes 3 times a year instead of 2, cleaning the grease trap once a month and deep cleaning it twice a year, and implementing a new cleaning procedure to reduce the solids into the drains. NOVs were issued for the violations and additional program monitoring was planned for the first half of 2020 to determine whether these actions were sufficient to achieve compliance.

The IU was not in SNC for the first half of 2020; however, no monitoring for dissolved sulfides was conducted. The IU met the SNC criteria for the six-month periods ending in the third and fourth quarters of 2020, when 4 of the 6 samples collected exceeded the daily maximum for dissolved sulfide by more than the TRC. The IU responded that it will further improve its cleaning steps by increasing the jet-cleaning of the drainpipes to 4 times a year instead of 3 and by increasing the grease trap cleaning frequency to 17 times (every 3 weeks) a year instead of 12. NOVs were issued for the violations and additional program monitoring is planned for the first half of 2021 to determine whether these new actions are sufficient to achieve compliance.

RJ Donovan Correctional Facility; IU # 12-0038

This medium security prison discharges about 55,000 gpd from its laundry, kitchen, and bakery. The IU was in SNC for late reporting in 2016, 2017, and 2018, but it avoided SNC status in 2019. However, the IU failed to comply with its permit condition to submit an updated Toxic Organics Management Plan (TOMP) by December 1, 2019. As a result, the IU was in SNC for missing a

compliance schedule milestone by more than 90 days. First and second NOV's were issued and IU submitted the TOMP on August 17, 2020. No further enforcement actions are planned.

Spectex Inc dba Specialty Textile Services; IU # 12-0283

This commercial laundry currently discharges about 48,000 gpd after pretreatment from laundry operations and is required to self-monitor monthly. The IU submitted its self-monitoring report due June 15, 2020 on August 6, 2020 (57 days late) and thus was in SNC for late reporting in the second quarter. An NOV was issued, and no further enforcement actions are planned.

US General Services Administration – SYLPOE; IU # 12-0285

This border crossing facility has a wastewater reclamation plant that discharges high strength activated sludge into the upstream end of the sewer main. The IU was initially permitted in May 2014 when it discharged 1,000 gpd but this flow has fallen to a daily average of only 50 gpd of high strength wastewater. The IU failed to comply with its permit condition due January 1, 2020, requiring it to submit an updated TOMP. An NOV was issued, and the IU submitted the TOMP on August 30, 2020. Thus, the IU missed its compliance schedule milestone by more than 90 days. No further enforcement actions are planned.

4.4 Public Information and Involvement

Each year, a combined list of all facilities in the Metropolitan Sewerage System service area that were in SNC at any time during the year is published in the Union Tribune; this list is included in Chapter 4 of the Pretreatment Annual Report for the Point Loma POTW.

The following SIUs discharging tributary to the SBWRP were in SNC:

| Table 4.4-1 Significant Industrial Users in SNC | | |
|-------------------------------------------------|----------------------------------------|----------------------------|
| Industrial User | Address | Pollutant/Other |
| Jensen Meat Company Inc | 2550 Britannia Bl Suite 101, San Diego | Dissolved sulfides |
| RJ Donovan Correctional Facility | 480 Alta Rd, San Diego | Missed Milestone > 90 days |
| Spectex Inc dba Specialty Textile Services | 1333 30th St Suite A, San Diego | SM Report Late > 30 days |
| US General Services Administration - SYLPOE | 720 E San Ysidro Bl, San Diego | Missed Milestone > 90 days |

Annual SIU Compliance Status Report

01-Jan-2020 through 31-Dec-2020

| SIU Name | IU# | Class | IW Disch | SNC? | [If Yes, Why] | Conn | Violation Date | Description/Parameter | Value | Limit | Period | Cat | TRC |
|--------------------------------------------------------------------------------------|---------|-------|----------|------|----------------------------------------------------------------------|------|----------------|-------------------------------------|-------|-------|--------|-----|-----|
| AP Precision Metals 1215 30th St, San Diego | 12-0144 | 1 | 128 | No | | 110 | 22-Oct-20 | SMR Late - written notice | | | | | |
| Ajinomoto Foods North America Inc 8411 Siempre Viva Rd, San Diego | 12-0220 | 3 | 76000 | No | | 110 | 01-Sep-20 | Oil and grease, Total-Instantaneous | 1000 | 500 | DM | L | Y |
| Emerald Textiles LLC 1725 Dornoch Ct Suite 100, San Diego | 12-0065 | 3 | 79194 | No | | NA | | | | | | | |
| Harcon Precision Metals Inc 1790 Dornoch Ct, San Diego | 12-0244 | 1 | 70 | No | | NA | | | | | | | |
| Jensen Meat Company Inc 2550 Britannia Bl Suite 101, San Diego | 12-0275 | 3 | 18478 | Yes | SNC1 - Chronic (DM): SulfD 2/2; SNC2 - TRC (DM): SulfD 2/2,SulfD 3/5 | 110 | 01-Sep-20 | Sulfides, Dissolved-Instantaneous | 2.4 | 1 | DM | L | Y |
| | | | | | | 110 | 02-Sep-20 | Sulfides, Dissolved-Instantaneous | 4.9 | 1 | DM | L | Y |
| | | | | | | 110 | 23-Nov-20 | Sulfides, Dissolved-Instantaneous | 3.3 | 1 | DM | L | Y |
| Kraft Heinz Foods Company 7878 Airway Rd, San Diego | 12-0154 | 3 | 102142 | No | | NA | | | | | | | |
| Otay Mesa Energy Center LLC 606 De La Fuente Ct, San Diego | 36-0001 | 1 | 33375 | No | | NA | | | | | | | |
| RJ Donovan Correctional Facility 480 Alta Rd, San Diego | 12-0038 | 3 | 13700 | Yes | SNC5 - Missed Milestone > 90 days | | 01-Mar-20 | Delinquent Requirement | | | | | |
| Spec-Built Systems Inc 2150 Michael Faraday Dr, San Diego | 12-0202 | 1 | 26 | No | | NA | | | | | | | |
| Spectex Inc dba Specialty Textile Services 1333 30th St Suite A, San Diego | 12-0283 | 3 | 47853 | Yes | SNC6 - Report Late > 45 days | 110 | 24-Jan-20 | SMR Late - written notice | | | | | |
| | | | | | | 110 | 03-Feb-20 | SMR Incomplete | | | | | |
| | | | | | | 110 | 08-Aug-20 | SMR Incomplete | | | | | |
| | | | | | | 110 | 11-Aug-20 | SMR Incomplete | | | | | |
| | | | | | | 110 | 12-Aug-20 | SMR Late - written notice | | | | | |
| | | | | | | 110 | 12-Aug-20 | SMR Late - written notice | | | | | |
| Tarantino Wholesale Food Distributors 7651 Saint Andrews Av, San Diego | 12-0212 | 3 | 7112 | No | | 100 | 01-Sep-20 | pH-lowest value | 3.2 | 5 | DM | L | N |
| | | | | | | 100 | 30-Nov-20 | SMR Incomplete | | | | | |
| | | | | | | 210 | 08-Aug-20 | SMR Incomplete | | | | | |
| | | | | | | 210 | 30-Nov-20 | SMR Incomplete | | | | | |
| US General Services Administration - SYLPOE 720 E San Ysidro Bl, San Diego | 12-0285 | 3 | 50 | Yes | SNC5 - Missed Milestone > 90 days | | 01-Apr-20 | Delinquent Requirement | | | | | |
| UT; Brenntag Pacific Inc 1888 Nirvana Av, Chula Vista | 13-0549 | 2 | 10080 | No | | NA | | | | | | | |

NOVs Issued in 2020 for SIUs

Report run on: Friday, February 19, 2021 7:11 pm

| <i>Name</i> | <i>Facility</i> | <i>Conn</i> | <i>NOV</i> | <i>Identified</i> | <i>Action</i> | <i>Viol Date</i> | <i>Fee</i> | <i>Level</i> |
|---------------------------------------------|-----------------|-------------|------------|-------------------|---------------|------------------|----------------|----------------|
| AP Precision Metals | 12-0144 | 110 | 97566 | 22-Oct-2020 | 22-Oct-2020 | | 50 | Notice only |
| Ajinomoto Foods North America Inc | 12-0220 | 110 | 97934 | 19-Nov-2020 | 19-Nov-2020 | 02-Sep-2020 | 100 | Initial notice |
| Jensen Meat Company Inc | 12-0275 | 110 | 95854 | 31-Dec-2019 | 15-Jul-2020 | 31-Dec-2019 | 284 | Final notice |
| | | | 97794 | 09-Nov-2020 | 09-Nov-2020 | 02-Sep-2020 | 100 | Initial notice |
| Otay Mesa Energy Center LLC | 36-0001 | 110 | 95454 | 30-Jan-2020 | 06-Feb-2020 | | 0 | Notice only |
| Otay Mesa Energy Center LLC | 36-0001 | 120 | 95456 | 30-Jan-2020 | 06-Feb-2020 | | 0 | Notice only |
| Otay Mesa Energy Center LLC | 36-0001 | 140 | 95455 | 30-Jan-2020 | 06-Feb-2020 | | 0 | Notice only |
| RJ Donovan Correctional Facility | 12-0038 | | 95845 | 01-Mar-2020 | 19-Feb-2020 | | 100 | Initial notice |
| | | | 95845 | 01-Mar-2020 | 13-Aug-2020 | | 75 | Second notice |
| Spec-Built Systems Inc | 12-0202 | 110 | 94109 | 31-Mar-2019 | 26-Mar-2020 | 31-Mar-2019 | 284 | Final notice |
| Spectex Inc dba Specialty Textile Services | 12-0283 | 110 | 95380 | 24-Jan-2020 | 29-Jan-2020 | | 50 | Notice only |
| | | | 95457 | 03-Feb-2020 | 03-Feb-2020 | 12-Dec-2019 | 50 | Notice only |
| | | | 96291 | 08-Aug-2020 | 08-Aug-2020 | 09-Mar-2020 | 50 | Notice only |
| | | | 96635 | 11-Aug-2020 | 11-Aug-2020 | 25-Jun-2020 | 50 | Notice only |
| | | | 96941 | 12-Aug-2020 | 12-Aug-2020 | | 50 | Notice only |
| | | | 96983 | 12-Aug-2020 | 12-Aug-2020 | | 50 | Notice only |
| Tarantino Wholesale Food Distributors | 12-0212 | 100 | 94110 | 31-Mar-2019 | 21-Jul-2020 | 31-Mar-2019 | 284 | Final notice |
| Tarantino Wholesale Food Distributors | 12-0212 | 210 | 96192 | 08-Aug-2020 | 08-Aug-2020 | 30-Apr-2020 | 50 | Notice only |
| US General Services Administration - SYLPOE | 12-0285 | | 97239 | 01-Apr-2020 | 30-Jun-2020 | | 100 | Initial notice |
| Total fees: | | | | | | | \$1,727 | |
| NOV count: | | | 19 | | | | | |

Sampling in 2020 at SIUs

Report run on: Friday, February 19, 2021 7:23 pm

Page 1

| <i>Facility</i> | <i>Pmt</i> | <i>Name</i> | <i>Conn</i> | <i>Principle Process</i> | <i>Pmt</i> <i>Include</i> | <i>Parmcode</i> | <i>City</i> <i>Samples</i> | <i>Self</i> <i>Samples</i> |
|-----------------|------------|---------------------------------------|-------------|----------------------------------|------------------------------|------------------|-------------------------------|-------------------------------|
| 12-0038 | 06-A | RJ Donovan Correctional Facility | 100 | Prison Sewer Main | L | SOLVENT CERT | | 2 |
| | | | | | | COD | 1 | 4 |
| | | | | | | PH | 1 | 4 |
| | | | | | | PHARMA HC CERT | | 2 |
| | | | | | | BIOHAZARD CERT | | 2 |
| | | | | | | OIL/GREASE | 1 | 4 |
| | | | | | | TSS | 1 | 4 |
| 12-0065 | 05-A | Emerald Textiles LLC | 110 | Commercial Laundry | L | PH HIGHEST | 4 | |
| | | | | | | PH LOWEST | 4 | |
| | | | | | | SULFIDE DISSOLVD | 8 | 4 |
| | | | | | | TDS | 4 | 4 |
| | | | | | | OIL/GREASE | 4 | 4 |
| | | | | | | CHLORIDE | 4 | 4 |
| | | | | | | FLOW | | 12 |
| | | | | | | TSS | 4 | 4 |
| | | | | | | COD | 4 | 4 |
| | | | | | | PH | 4 | 4 |
| 12-0144 | 05-A | AP Precision Metals | 110 | Metal Coating (Iron Phosphating) | F | FLOW MAX | | 4 |
| | | | | | | NICKEL | 4 | 4 |
| | | | | | | TTO CERT | | 3 |
| | | | | | | CADMIUM | 4 | 4 |
| | | | | | | PH | 5 | 4 |
| | | | | | | SILVER | 4 | 4 |
| | | | | | | TTO(413+433)-P | 1 | |
| | | | | | | CHROMIUM | 4 | 4 |
| | | | | | | FLOW | | 4 |
| | | | | | | LEAD | 4 | 4 |
| | | | | | | CYANIDE(T) | 5 | 4 |
| | | | | | | COPPER | 4 | 4 |
| | | | | | | ZINC | 4 | 4 |
| 12-0154 | 05-A | Kraft Heinz Foods Company | 110 | Food Manufacturing | L | FLOWMETER READ 1 | 5 | 12 |
| | | | | | | FLOWMETER READ 2 | 4 | 12 |
| | | | | | | TEMP | 5 | 12 |
| | | | | | | FLOW | | 12 |
| | | | | | | FLOW TOTIMPORTED | | 12 |
| | | | | | | PH | 5 | 12 |
| | | | | | | PH HIGHEST | 6 | |
| | | | | | | TSS | 7 | 12 |
| | | | | | | OIL/G SCREEN | | |
| | | | | | | OIL/GREASE | 5 | 12 |
| | | | | | | COD | 7 | 12 |
| | | | | | | SULFIDE DISSOLVD | 5 | 4 |
| | | | | | | PH LOWEST | 6 | |
| 12-0202 | 04-A | Spec-Built Systems Inc | 110 | Iron Phosphating | F | COPPER | | |
| | | | | | | TSS | | |
| | | | | | | TTO(413+433)-P | | |
| | | | | | | CHROMIUM | | |
| | | | | | | FLOW | | |
| | | | | | | LEAD | | |
| | | | | | | PH | | |
| | | | | | | TTO CERT | | |
| | | | | | | NICKEL | | |
| | | | | | | CADMIUM | | |
| | | | | | | CYANIDE(T) | | |
| | | | | | | SILVER | | |
| | | | | | | ZINC | | |
| | | | | | | COD | | |
| | | | | | | FLOW MAX | | |
| 12-0212 | 02-A | Tarantino Wholesale Food Distributors | 100 | Sewer Lateral | L | PH LOWEST | 2 | |
| | | | | | | OIL/GREASE | 5 | 6 |
| | | | | | | COD | 2 | 6 |
| | | | | | | FLOW | | 6 |
| | | | | | | PH HIGHEST | 2 | |
| | | | | | | SULFIDE DISSOLVD | 2 | 6 |
| | | | | | | TSS | 2 | 6 |
| | | | | | | CHLORIDE | 2 | 6 |
| | | | | | | PH | 2 | 6 |
| | | | | | | TDS | 2 | 6 |

Sampling in 2020 at SIUs

Report run on: Friday, February 19, 2021 7:23 pm

| Facility | Pmt | Name | Conn | Principle Process | Pmt Include | Parmcode | City Samples | Self Samples |
|----------|------|---------------------------------------------|------|--------------------------------------|-------------|------------------|--------------|--------------|
| 12-0212 | 02-A | Tarantino Wholesale Food Distributors | 210 | Sausage manufacturing | L | COD | 2 | |
| | | | | | | FLOW | | |
| | | | | | | PH | 2 | |
| | | | | | | TSS | 2 | 6 |
| | | | | | | OIL/GREASE | 5 | 6 |
| | | | | | | CLARIFIER RPT | | 5 |
| | | | | | | TDS | | 6 |
| 12-0220 | 05-A | Ajinomoto Foods North America Inc | 110 | Food manufacturing | L | FLOW | | 12 |
| | | | | | | OIL/GREASE | 2 | 12 |
| | | | | | | TDS | 7 | 12 |
| | | | | | | FLOWMETER READ 2 | | 12 |
| | | | | | | PH HIGHEST | 7 | |
| | | | | | | TFDS | 7 | 12 |
| | | | | | | TSS | 7 | 12 |
| | | | | | | TEMP | 2 | 12 |
| | | | | | | CHLORIDE | 7 | 12 |
| | | | | | | PH | 2 | 12 |
| | | | | | | FLOWMETER READ 1 | | 12 |
| | | | | | | COD | 7 | 12 |
| | | | | | | PH LOWEST | 7 | |
| 12-0244 | 03-A | Harcon Precision Metals Inc | 110 | Conversion coating & assoc processes | F | SULFIDE DISSOLVD | 2 | 4 |
| | | | | | | TTO(413+433)-P | 1 | |
| | | | | | | LEAD | 1 | 2 |
| | | | | | | SILVER | 1 | 2 |
| | | | | | | CADMIUM | 1 | 2 |
| | | | | | | COD | 1 | 2 |
| | | | | | | CYANIDE(T) | 1 | 2 |
| | | | | | | NICKEL | 1 | 2 |
| | | | | | | TSS | 1 | 2 |
| | | | | | | FLOW | | 2 |
| | | | | | | FLOW MAX | | 2 |
| | | | | | | PH | 1 | 2 |
| | | | | | | CHROMIUM | 1 | 2 |
| | | | | | | TTO CERT | | 2 |
| | | | | | | COPPER | 1 | 2 |
| | | | | | | OIL/GREASE | 1 | 2 |
| | | | | | | ZINC | 1 | 2 |
| 12-0275 | 03-A | Jensen Meat Company Inc | 110 | Meat processing, cleaning/sanitizing | L | CHLORIDE | 2 | 4 |
| | | | | | | OIL/GREASE | 4 | 4 |
| | | | | | | PH LOWEST | 2 | |
| | | | | | | TFDS | 2 | 4 |
| | | | | | | PH HIGHEST | 2 | |
| | | | | | | CLARIFIER RPT | | 4 |
| | | | | | | FLOW | | 4 |
| | | | | | | PH | 4 | 4 |
| | | | | | | TSS | 2 | 4 |
| | | | | | | RAIN DIVERT CERT | | 1 |
| | | | | | | COD | 2 | 4 |
| | | | | | | SULFIDE DISSOLVD | 6 | |
| 12-0283 | 03-A | Spectex Inc dba Specialty Textile Services | 110 | Commerical Laundry | L | TDS | 2 | 4 |
| | | | | | | SULFIDE DISSOLVD | 8 | 2 |
| | | | | | | TSS | 4 | 4 |
| | | | | | | OIL/GREASE | 4 | 4 |
| | | | | | | PH LOWEST | 1 | |
| | | | | | | PH | 4 | 4 |
| | | | | | | COD | 4 | 4 |
| | | | | | | FLOW | | 12 |
| 12-0285 | 03-A | US General Services Administration - SYLPOE | 110 | Waste activated sludge | L | PH HIGHEST | 1 | |
| | | | | | | FLOW | | 2 |
| | | | | | | FLOW MAX | | 2 |
| | | | | | | FLOW TOTIMPORTED | | 12 |
| | | | | | | TDS | 1 | |
| | | | | | | TSS | 1 | |
| | | | | | | COD | 1 | |
| | | | | | | SULFIDE DISSOLVD | 1 | |
| | | | 120 | Untreated wastewater | L | FLOW TOTIMPORTED | | 12 |
| | | | 130 | Treated wastewater | L | FLOW TOTIMPORTED | | 12 |

Sampling in 2020 at SIUs

Report run on: Friday, February 19, 2021 7:23 pm

| <i>Facility</i> | <i>Pmt</i> | <i>Name</i> | <i>Conn</i> | <i>Principle Process</i> | <i>Pmt</i> <i>Include</i> | <i>Parmcode</i> | <i>City</i> <i>Samples</i> | <i>Self</i> <i>Samples</i> |
|-----------------|------------|-----------------------------|-------------|--------------------------|------------------------------|------------------|-------------------------------|-------------------------------|
| 13-0549 | 02-A | UT; Brenntag Pacific Inc | 100 | Groundwater Remediation | L | FLASH | 1 | 10 |
| | | | | | | BNZ(W/OAGG) | 1 | 10 |
| | | | | | | COD | 1 | 12 |
| | | | | | | FLOW RATE MIN | | 12 |
| | | | | | | FLOW TOTIMPORTED | | 12 |
| | | | | | | FLOWMETER READ 2 | | 12 |
| | | | | | | 4CLETHE | 1 | 10 |
| | | | | | | AUTOSHUTDOWN RPT | | 12 |
| | | | | | | TSS | 1 | 12 |
| | | | | | | FLOW RATE MAX | | 12 |
| | | | | | | BTEX | 1 | 10 |
| | | | | | | FLOWMETER READ 1 | | 12 |
| | | | | | | 3CLETHE | 1 | 10 |
| | | | | | | FLOW MAX | | 12 |
| 36-0001 | 03-A | Otay Mesa Energy Center LLC | 110 | WetSac blowdown + OWS | F | ZINC | 3 | 4 |
| | | | | | | OIL/GREASE | 3 | 4 |
| | | | | | | PH HIGHEST | | |
| | | | | | | TDS | 1 | 4 |
| | | | | | | FLOW | | 4 |
| | | | | | | FLOW MAX | | 4 |
| | | | | | | PH | 3 | 4 |
| | | | | | | PH LOWEST | | |
| | | | | | | CHROMIUM | 3 | 4 |
| | | | 120 | PCB zero discharge | F | ZERODISCHRG CERT | | 4 |
| | | | 140 | Turbine washing | F | COPPER | | |
| | | | | | | FLOW MAX | | |
| | | | | | | FLOW | | |

SIUs: 13

CHAPTER 5 – PRETREATMENT PROGRAM EFFECTIVENESS

5.1 Heavy Metal Loadings and Monitoring Data

Summary of analytical results from representative flow-proportioned, 24-hour composite sampling of the SBWRP influent and effluent for those pollutants that the United State Environmental Protection Agency (USEPA) has identified under Section 307(a) of the Clean Water Act (CWA), and which are known or suspected to be discharged by industrial users. The summary must include a full priority pollutant scan. Tables 5.1-1 and 5.1-2 summarize influent and effluent heavy metal loadings by month.

5.2. Upset, Interference and Pass-Through

No incidents of interference with the collection system, pump stations, or treatment plant operations were reported.

5.3. Biosolids Disposal Method

Biosolids from the SBWRP are conveyed to Point Loma, and from there to the Metro Biosolids Center for processing and disposal in combination with biosolids from throughout the Metropolitan Sewerage System service area. See details of biosolids disposal locations and beneficial uses on Chapter 5 Section 5.5 of this year's Annual Report for the Point Loma POTW, NPDES Permit No. CA 0107409.

5.4. Other Concerns

There are no other concerns pertaining to the administration of the pretreatment program or control of industrial contributions to the headworks loadings at the SBWRP currently.

TABLE 5.1-1
SOUTH BAY WATER RECLAMATION PLANT INFLUENT HEAVY METALS
Average Concentration and Loadings for 2020

ND or <MDL = 0

| | Flow (mgd) | Cd | Cr | Cu | Pb | Ni | Ag | Zn |
|--------------------|------------|------|------|--------|------|------|------|--------|
| Jan-Jun MDL (ug/L) | | 0.48 | 7.17 | 9.37 | 5.93 | 3.35 | 1.57 | 10.40 |
| Jul-Dec MDL (ug/L) | | 0.04 | 0.20 | 0.42 | 0.08 | 0.09 | 0.01 | 0.86 |
| Jan | 6.45 | 0.00 | 0.00 | 87.80 | 0.00 | 5.12 | 0.00 | 198.00 |
| Feb | 6.29 | 0.00 | 0.00 | 305.00 | 0.00 | 3.64 | 0.00 | 199.00 |
| Mar | 6.65 | 0.00 | 0.00 | 127.00 | 0.00 | 4.08 | 0.00 | 242.00 |
| Apr | 6.75 | 0.00 | 0.00 | 73.80 | 3.95 | 4.28 | 0.00 | 154.00 |
| May | 6.83 | 0.00 | 0.00 | 113.00 | 3.33 | 4.00 | 0.00 | 221.00 |
| Jun | 5.89 | 0.00 | 0.00 | 101.00 | 0.00 | 3.85 | 0.00 | 189.00 |
| Jul | 6.59 | 0.20 | 2.33 | 83.40 | 1.32 | 5.32 | 0.19 | 172.00 |
| Aug | 6.66 | 0.20 | 2.66 | 89.10 | 1.44 | 4.21 | 0.24 | 181.00 |
| Sep | 6.69 | 0.23 | 3.15 | 72.80 | 3.78 | 4.10 | 0.32 | 171.00 |
| Oct | 6.52 | 0.27 | 4.34 | 73.20 | 1.98 | 3.68 | 0.43 | 162.00 |
| Nov | 6.44 | 0.27 | 3.15 | 119.00 | 1.87 | 4.00 | 0.25 | 184.00 |
| Dec | 6.21 | 0.26 | 4.10 | 65.90 | 1.27 | 3.92 | 0.43 | 157.00 |
| Average Flow MGD | 6.50 | | | | | | | |
| Average ug/L | | 0.12 | 1.64 | 109.25 | 1.58 | 4.18 | 0.15 | 185.83 |
| LBS/day | | 0.01 | 0.09 | 5.92 | 0.09 | 0.23 | 0.01 | 10.07 |
| Total lbs HM | 16.41 | | | | | | | |
| Total lbs (-)Ag | 16.40 | | | | | | | |

*NOTE: From January to June 2020, the metal analyses were performed using EPA method 200.7. From July to December 2020, they were performed using EPA method 200.8.

TABLE 5.1-2
SOUTH BAY WATER RECLAMATION PLANT EFFLUENT HEAVY METALS
Average Concentration and Loadings for 2020

ND or <MDL = 0

| Month | Flow (mgd) | Cd | Cr | Cu | Pb | Ni | Ag | Zn |
|--------------------|------------|------|------|-------|------|------|------|-------|
| Jan-Jun MDL (ug/L) | | 0.48 | 7.17 | 9.37 | 5.93 | 3.35 | 1.57 | 10.40 |
| Jul-Dec MDL (ug/L) | | 0.04 | 0.20 | 0.42 | 0.08 | 0.09 | 0.01 | 0.86 |
| Jan | 6.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 56.10 |
| Feb | 5.70 | 0.00 | 0.00 | 17.50 | 0.00 | 2.20 | 0.00 | 66.90 |
| Mar | 6.04 | 0.00 | 0.00 | 9.38 | 0.00 | 2.36 | 0.00 | 60.80 |
| Apr | 6.09 | 0.00 | 0.00 | 6.97 | 0.00 | 0.00 | 0.00 | 54.50 |
| May | 6.16 | 0.00 | 0.00 | 10.20 | 0.00 | 2.29 | 0.00 | 69.20 |
| Jun | 5.36 | 0.00 | 0.00 | 8.66 | 0.00 | 2.91 | 0.00 | 58.30 |
| Jul | 1.47 | 0.05 | 0.62 | 8.17 | 0.24 | 2.10 | 0.00 | 51.80 |
| Aug | 1.67 | 0.04 | 0.38 | 6.56 | 0.23 | 1.92 | 0.00 | 48.50 |
| Sep | 1.56 | 1.33 | 0.37 | 5.36 | 0.21 | 2.20 | 0.00 | 36.00 |
| Oct | 2.03 | 0.00 | 0.42 | 8.35 | 0.13 | 2.37 | 0.00 | 34.20 |
| Nov | 2.88 | 0.00 | 0.32 | 4.27 | 0.18 | 1.76 | 0.00 | 32.70 |
| Dec | 2.65 | 0.00 | 0.37 | 4.92 | 0.15 | 1.81 | 0.00 | 35.80 |
| Average Flow MGD | 3.97 | | | | | | | |
| Average ug/L | | 0.12 | 0.21 | 7.53 | 0.09 | 1.83 | 0.00 | 50.40 |
| LBS/day | | 0.00 | 0.01 | 0.25 | 0.00 | 0.06 | 0.00 | 1.67 |
| Total lbs HM | 1.99 | | | | | | | |
| Total lbs (-)Ag | 1.99 | | | | | | | |

*NOTE: From January to June 2020, the metal analyses were performed using EPA method 200.7. From July to December 2020, they were performed using EPA method 200.8.

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2020

Biochemical Oxygen Demand Concentration
(24-hour composite)

| Month/ Units: | Influent Flow (MGD) | Daily Influent Value (mg/L) | Daily Influent Value (lbs/Day) | Effluent Flow (MGD) | Daily Effluent Value (mg/L) | Daily Effluent Value (lbs/Day) | Percent Removal BOD (%) |
|----------------|---------------------------|--------------------------------------|-----------------------------------------|---------------------------|--------------------------------------|-----------------------------------------|----------------------------------|
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 6.45 | 347 | 18666 | 6.03 | 9 | 453 | 97.4 |
| FEBRUARY -2020 | 6.29 | 341 | 17888 | 5.70 | 10 | 475 | 97.1 |
| MARCH -2020 | 6.65 | 355 | 19689 | 6.04 | 6 | 302 | 98.3 |
| APRIL -2020 | 6.75 | 332 | 18690 | 6.09 | 6 | 305 | 98.2 |
| MAY -2020 | 6.83 | 361 | 20563 | 6.16 | 5 | 257 | 98.6 |
| JUNE -2020 | 5.89 | 387 | 19010 | 5.36 | 3 | 134 | 99.2 |
| JULY -2020 | 6.59 | 393 | 21600 | 1.47 | 2 | 25 | 99.5 |
| AUGUST -2020 | 6.66 | 350 | 19441 | 1.67 | 3 | 42 | 99.1 |
| SEPTEMBER-2020 | 6.69 | 399 | 22262 | 1.56 | <2 | 0 | 100.0 |
| OCTOBER -2020 | 6.52 | 382 | 20772 | 2.03 | 2 | 34 | 99.5 |
| NOVEMBER -2020 | 6.44 | 429 | 23041 | 2.88 | 3 | 72 | 99.3 |
| DECEMBER -2020 | 6.21 | 505 | 26155 | 2.65 | 4 | 88 | 99.2 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Average | 6.50 | 382 | 20648 | 3.97 | 4 | 182 | 98.8 |

Annual Mass Emissions are calculated from monthly averages of flow for BOD, whereas
Monthly Report average mass emissions are calculated from average daily mass emissions.

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2020

Total Suspended Solids Concentration
(24-hour composite)

| Source: | Influent Flow | Influent Daily TSS | Influent Daily VSS | Percent VSS | Influent Daily Mass Emission |
|---------------------------|------------------|--------------------------|--------------------------|----------------|------------------------------------|
| Analyte: Month/ Units: | (MGD) | (mg/L) | (mg/L) | (%) | (lbs/Day) |
| ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 6.45 | 359 | 332 | 92.5 | 19312 |
| FEBRUARY -2020 | 6.29 | 313 | 291 | 93.0 | 16420 |
| MARCH -2020 | 6.65 | 326 | 286 | 87.7 | 18080 |
| APRIL -2020 | 6.75 | 448 | 414 | 92.4 | 25220 |
| MAY -2020 | 6.83 | 303 | 281 | 92.7 | 17260 |
| JUNE -2020 | 5.89 | 308 | 286 | 92.9 | 15130 |
| JULY -2020 | 6.59 | 335 | 306 | 91.3 | 18412 |
| AUGUST -2020 | 6.66 | 269 | 251 | 93.3 | 14941 |
| SEPTEMBER-2020 | 6.69 | 322 | 297 | 92.2 | 17966 |
| OCTOBER -2020 | 6.52 | 359 | 342 | 95.3 | 19521 |
| NOVEMBER -2020 | 6.44 | 300 | 281 | 93.7 | 16113 |
| DECEMBER -2020 | 6.21 | 433 | 397 | 91.7 | 22426 |
| ===== | ===== | ===== | ===== | ===== | ===== |
| Average | 6.50 | 340 | 314 | 92.4 | 18400 |

Total Suspended Solids Concentration
(24-hour composite)

| Source: | Effluent Flow | Effluent Daily TSS | Effluent Daily VSS | Percent VSS | Effluent Daily Mass Emission | Percent Removal TSS | Percent Removal VSS |
|---------------------------|------------------|--------------------------|--------------------------|----------------|------------------------------------|---------------------------|---------------------------|
| Analyte: Month/ Units: | (MGD) | (mg/L) | (mg/L) | (%) | (lbs/Day) | (%) | (%) |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 6.03 | 9.6 | 8.6 | 89.6 | 483 | 97.3 | 97.4 |
| FEBRUARY -2020 | 5.70 | 9.6 | 8.8 | 91.7 | 456 | 96.9 | 97.0 |
| MARCH -2020 | 6.04 | 6.9 | 6.0 | 87.0 | 348 | 97.9 | 97.9 |
| APRIL -2020 | 6.09 | 5.7 | 5.1 | 89.5 | 290 | 98.7 | 98.8 |
| MAY -2020 | 6.16 | 5.0 | 4.4 | 88.0 | 257 | 98.3 | 98.4 |
| JUNE -2020 | 5.36 | <3.1 | <3.1 | * | 0 | 100.0 | 100.0 |
| JULY -2020 | 1.47 | <2.5 | <2.5 | * | 0 | 100.0 | 100.0 |
| AUGUST -2020 | 1.67 | <2.5 | <2.5 | * | 0 | 100.0 | 100.0 |
| SEPTEMBER-2020 | 1.56 | <2.5 | ND | * | 0 | 100.0 | 100.0 |
| OCTOBER -2020 | 2.03 | <2.5 | <2.5 | * | 0 | 100.0 | 100.0 |
| NOVEMBER -2020 | 2.88 | <2.5 | ND | * | 0 | 100.0 | 100.0 |
| DECEMBER -2020 | 2.65 | 3.1 | 2.9 | 93.5 | 69 | 99.3 | 99.3 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Average | 3.97 | 3.3 | 3.0 | | 159 | 99.0 | 99.1 |

*= undetermined, the percent VSS was not calculated because TSS and VSS results were below the MDL.

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas
Monthly Report average mass emissions are calculated from average daily mass emissions.

VSS= Volatile Suspended Solids
TSS= Total Suspended Solids

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT

Annual 2020

Influent to Plant
(SB_INF_02)

| Analyte: | Flow | pH | Total Dissolved Solids | Biochemical Oxygen Demand | Total Suspended Solids | Volatile Suspended Solids | Turbidity |
|----------------|-------|-------|------------------------------|---------------------------------|------------------------------|---------------------------------|-----------|
| Month/ Units: | (mgd) | (pH) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (NTU) |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 6.45 | NR | 998 | 347 | 359 | 332 | NR |
| FEBRUARY -2020 | 6.29 | 7.43 | 1000 | 341 | 313 | 291 | NR |
| MARCH -2020 | 6.65 | NR | 966 | 355 | 326 | 286 | NR |
| APRIL -2020 | 6.75 | NR | 958 | 332 | 448 | 414 | NR |
| MAY -2020 | 6.83 | 6.87 | 933 | 361 | 303 | 281 | 185 |
| JUNE -2020 | 5.89 | NR | 1090 | 387 | 308 | 286 | NR |
| JULY -2020 | 6.59 | NR | 973 | 393 | 335 | 306 | NR |
| AUGUST -2020 | 6.66 | 7.38 | 986 | 350 | 269 | 251 | NR |
| SEPTEMBER-2020 | 6.69 | NR | 1020 | 399 | 322 | 297 | NR |
| OCTOBER -2020 | 6.52 | 7.41 | 1020 | 382 | 359 | 342 | NR |
| NOVEMBER -2020 | 6.44 | NR | 1090 | 429 | 300 | 281 | NR |
| DECEMBER -2020 | 6.21 | NR | 1080 | 505 | 433 | 397 | NR |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Average | 6.50 | 7.27 | 1010 | 382 | 340 | 314 | 185 |

ND= not detected; NR= not required

SOUTH BAY WATER RECLAMATION PLANT

Annual 2020

Effluent to Ocean Outfall
(SB_OUTFALL_01)

| Analyte: | Flow | pH | Settleable Solids | Biochemical Oxygen Demand | Total Suspended Solids | Volatile Suspended Solids | Total Dissolved Solids |
|----------------|-------|------|-------------------|---------------------------|------------------------|---------------------------|------------------------|
| Month/ Units: | (mgd) | (pH) | (ml/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) |
| JANUARY -2020 | 6.03 | 7.21 | 0.4 | 9 | 9.6 | 8.6 | 882 |
| FEBRUARY -2020 | 5.70 | 7.25 | 0.1 | 10 | 9.6 | 8.8 | 920 |
| MARCH -2020 | 6.04 | 7.30 | 0.1 | 6 | 6.9 | 6.0 | 880 |
| APRIL -2020 | 6.09 | 7.20 | ND | 6 | 5.7 | 5.1 | 904 |
| MAY -2020 | 6.16 | 7.30 | ND | 5 | 5.0 | 4.4 | 900 |
| JUNE -2020 | 5.36 | 7.42 | ND | 3 | <3.1 | <3.1 | 940 |
| JULY -2020 | 1.47 | 7.32 | ND | 2 | <2.5 | <2.5 | 876 |
| AUGUST -2020 | 1.67 | 7.32 | ND | 3 | <2.5 | <2.5 | 915 |
| SEPTEMBER-2020 | 1.56 | 7.29 | ND | <2 | <2.5 | ND | 942 |
| OCTOBER -2020 | 2.03 | 7.34 | ND | 2 | <2.5 | <2.5 | 945 |
| NOVEMBER -2020 | 2.88 | 7.37 | ND | 3 | <2.5 | ND | 978 |
| DECEMBER -2020 | 2.65 | 7.34 | ND | 4 | 3.1 | 2.9 | 959 |
| Average | 3.97 | 7.31 | 0.05 | 4 | 3.3 | 3.0 | 920 |

| Analyte: | Oil & Grease | Outfall Temperature | Residual Chlorine | Turbidity | Dissolved Oxygen |
|----------------|--------------|---------------------|-------------------|-----------|------------------|
| Month/ Units: | (mg/L) | (°C) | (mg/L) | (NTU) | (mg/L) |
| JANUARY -2020 | 6.2 | 22.7 | <0.065 | 3.69 | 2.64 |
| FEBRUARY -2020 | 7.3 | 22.9 | <0.065 | 3.42 | 2.97 |
| MARCH -2020 | 12.7 | 22.5 | <0.065 | 2.94 | 4.87 |
| APRIL -2020 | 3.0 | 26.2 | ND | 2.40 | 3.08 |
| MAY -2020 | <2.7 | 24.9 | ND | 1.76 | 4.14 |
| JUNE -2020 | <2.7 | 25.7 | ND | 1.17 | 3.07 |
| JULY -2020 | <2.7 | 26.4 | ND | 0.95 | 2.28 |
| AUGUST -2020 | 6.3 | 27.8 | ND | 1.35 | 2.24 |
| SEPTEMBER-2020 | ND | 27.7 | <0.065 | 0.87 | 1.24 |
| OCTOBER -2020 | ND | 26.7 | ND | 1.05 | 1.68 |
| NOVEMBER -2020 | ND | 25.0 | <0.065 | 0.89 | 2.16 |
| DECEMBER -2020 | ND | 24.0 | ND | 1.50 | 2.20 |
| Average | 3.0 | 25.2 | 0.0 | 1.83 | 2.71 |

ND= not detected; NR= not required

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Trace Metals
EPA Method 200.8 and 200.7*

Annual 2020

| Analyte: | Aluminum | Aluminum | Antimony | Antimony | Arsenic | Arsenic |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MAX_MDL Units: | 57.9 UG/L | 57.9 UG/L | 2.43 UG/L | 2.43 UG/L | 3.21 UG/L | 3.21 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | | | | | | 2800 |
| JANUARY -2020 | 1030 | ND | ND | ND | ND | ND |
| FEBRUARY -2020 | 578 | ND | 2.22 | ND | ND | ND |
| MARCH -2020 | 680 | ND | 2.34 | ND | ND | ND |
| APRIL -2020 | 701 | ND | ND | ND | ND | ND |
| MAY -2020 | 603 | ND | ND | ND | ND | ND |
| JUNE -2020 | 527 | ND | ND | <2.43 | ND | ND |
| JULY -2020 | 500 | 17.2 | 1.46 | 1.12 | 1.430 | 0.894 |
| AUGUST -2020 | 529 | 20.0 | 1.53 | 0.851 | 1.570 | 0.729 |
| SEPTEMBER-2020 | 468 | 14.5 | 1.29 | 0.895 | 1.400 | 0.688 |
| OCTOBER -2020 | 525 | 15.6 | 1.30 | 0.894 | 1.490 | 1.000 |
| NOVEMBER -2020 | 551 | 12.7 | 1.66 | 0.871 | 1.740 | 0.855 |
| DECEMBER -2020 | 538 | 12.8 | 1.30 | 0.879 | 1.290 | 0.437 |
| AVERAGE | 603 | 7.73 | 1.09 | 0.459 | 0.743 | 0.384 |

| Analyte: | Barium | Barium | Beryllium | Beryllium | Boron | Boron |
|----------------|------------|------------|-----------|-----------|-----------|-----------|
| MAX_MDL Units: | 0.095 UG/L | 0.095 UG/L | 0.4 UG/L | 0.4 UG/L | 3.86 UG/L | 3.86 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | | | | | | |
| JANUARY -2020 | 60.4 | 38.1 | ND | ND | 390 | 369 |
| FEBRUARY -2020 | 64.3 | 42.2 | ND | ND | 503 | 410 |
| MARCH -2020 | 65.4 | 36.9 | ND | ND | 410 | 430 |
| APRIL -2020 | 60.4 | 43.0 | ND | ND | 319 | 361 |
| MAY -2020 | 72.4 | 46.8 | ND | ND | 390 | 398 |
| JUNE -2020 | 74.4 | 53.2 | ND | ND | 355 | 368 |
| JULY -2020 | 66.3 | 39.6 | ND | ND | 386 | 398 |
| AUGUST -2020 | 69.6 | 49.0 | ND | ND | 460 | 426 |
| SEPTEMBER-2020 | 82.6 | 53.0 | ND | ND | 379 | 391 |
| OCTOBER -2020 | 87.1 | 52.8 | ND | ND | 398 | 397 |
| NOVEMBER -2020 | 110 | 58.8 | ND | ND | 493 | 401 |
| DECEMBER -2020 | 84.4 | 57.9 | ND | ND | 392 | 375 |
| AVERAGE | 74.8 | 47.6 | 0.0 | 0.0 | 406 | 394 |

| Analyte: | Cadmium | Cadmium | Chromium | Chromium | Cobalt | Cobalt |
|----------------|------------|------------|-----------|-----------|------------|------------|
| MAX_MDL Units: | 0.484 UG/L | 0.484 UG/L | 7.17 UG/L | 7.17 UG/L | 0.618 UG/L | 0.618 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | | 48 | | 760 | | |
| JANUARY -2020 | ND | ND | ND | ND | 0.846 | ND |
| FEBRUARY -2020 | ND | ND | ND | ND | 0.855 | ND |
| MARCH -2020 | ND | ND | ND | ND | 0.889 | ND |
| APRIL -2020 | ND | ND | ND | ND | 0.860 | ND |
| MAY -2020 | ND | ND | ND | ND | 1.050 | ND |
| JUNE -2020 | ND | ND | ND | ND | 0.707 | ND |
| JULY -2020 | 0.201 | 0.051 | 2.33 | 0.616 | 0.526** | 0.309** |
| AUGUST -2020 | 0.195 | 0.036 | 2.66 | 0.376 | 0.763 | 0.172 |
| SEPTEMBER-2020 | 0.227 | 1.330 | 3.15 | 0.371 | 0.416 | 0.164 |
| OCTOBER -2020 | 0.270 | ND | 4.34 | 0.419 | 0.479 | 0.185 |
| NOVEMBER -2020 | 0.273 | ND | 3.15 | 0.315 | 0.493 | 0.149 |
| DECEMBER -2020 | 0.261 | ND | 4.10 | 0.370 | 0.568 | 0.114 |
| AVERAGE | 0.119 | 0.118 | 1.64 | 0.206 | 0.721 | 0.071 |

**= Relative percent difference of sample duplicates outside method acceptance criteria; value is not used in average calculations.

ND= not detected

*NOTE: From January to June 2020, the metal analyses were performed using EPA method 200.7. From July to December 2020, they were performed using EPA method 200.8.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Trace Metals
EPA Method 200.8 and 200.7*

Annual 2020

| Analyte: | Copper | | Iron | | Lead | |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MAX_MDL Units: | 9.37 UG/L | 9.37 UG/L | 36.7 UG/L | 36.7 UG/L | 5.93 UG/L | 5.93 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | 960 | | | | 760 | |
| JANUARY -2020 | 87.8 | ND | 991 | ND | ND | ND |
| FEBRUARY -2020 | 305 | 17.5 | 728 | 64.1 | ND | ND |
| MARCH -2020 | 127 | 9.38 | 697 | 69.4 | ND | ND |
| APRIL -2020 | 73.8 | 6.97 | 805 | 65.4 | 3.95 | ND |
| MAY -2020 | 113 | 10.2 | 885 | ND | 3.33 | ND |
| JUNE -2020 | 101 | 8.66 | 563 | <36.7 | ND | ND |
| JULY -2020 | 83.4 | 8.17 | 638 | 40.3 | 1.32 | 0.235 |
| AUGUST -2020 | 89.1 | 6.56 | 706 | 32.3 | 1.44 | 0.225 |
| SEPTEMBER-2020 | 72.8 | 5.36 | 836 | 24.6 | 3.78 | 0.212 |
| OCTOBER -2020 | 73.2 | 8.35 | 1020 | 28.9 | 1.98 | 0.129 |
| NOVEMBER -2020 | 119 | 4.27 | 790 | 22.2 | 1.87 | 0.179 |
| DECEMBER -2020 | 65.9 | 4.92 | 727 | 27.8 | 1.27 | 0.145 |
| AVERAGE | 109 | 7.53 | 782 | 31.3 | 1.58 | 0.094 |

| Analyte: | Manganese | | Mercury | | Molybdenum | |
|----------------|-----------|-----------|------------|------------|------------|------------|
| MAX_MDL Units: | 2.63 UG/L | 2.63 UG/L | 0.003 UG/L | 0.003 UG/L | 0.742 UG/L | 0.742 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | | | 15.0 | | | |
| JANUARY -2020 | 112 | 58.7 | 0.072 | 0.002 | 6.19 | 2.84 |
| FEBRUARY -2020 | 103 | 21.2 | 0.087 | 0.002 | 5.67 | 3.26 |
| MARCH -2020 | 104 | 21.3 | 0.135 | 0.003 | 6.97 | 3.00 |
| APRIL -2020 | 89.0 | 6.66 | 0.035 | 0.002 | 5.38 | 3.01 |
| MAY -2020 | 105 | 27.0 | 0.078 | 0.004 | 7.66 | 2.78 |
| JUNE -2020 | 93.7 | 19.0 | 0.091 | 0.002 | 5.98 | 2.96 |
| JULY -2020 | 89.9 | 3.40 | 0.086 | 0.002 | 6.09 | 3.69 |
| AUGUST -2020 | 104 | 4.90 | 0.078 | 0.002 | 5.81 | 3.20 |
| SEPTEMBER-2020 | 103 | 9.86 | 0.059 | ND | 7.28 | 3.32 |
| OCTOBER -2020 | 96.2 | 11.1 | 0.046 | ND | 8.90 | 4.47 |
| NOVEMBER -2020 | 120 | 6.99 | 0.056 | ND | 12.2 | 4.06 |
| DECEMBER -2020 | 103 | 3.04 | 0.090 | ND | 5.90 | 2.88 |
| AVERAGE | 102 | 16.1 | 0.076 | 0.002 | 7.00 | 3.29 |

| Analyte: | Nickel | | Selenium | | Silver | |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MAX_MDL Units: | 3.35 UG/L | 3.35 UG/L | 5.78 UG/L | 5.78 UG/L | 1.57 UG/L | 1.57 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | 1900 | | 5700 | | 250 | |
| JANUARY -2020 | 5.12 | ND | ND | ND | ND | ND |
| FEBRUARY -2020 | 4.80 | 2.20 | ND | ND | ND | ND |
| MARCH -2020 | 8.70 | 2.36 | ND | ND | ND | ND |
| APRIL -2020 | 3.82 | ND | ND | ND | ND | ND |
| MAY -2020 | 7.49 | 2.29 | ND | ND | ND | ND |
| JUNE -2020 | 4.01 | 2.91 | ND | ND | ND | ND |
| JULY -2020 | 3.82 | 2.10 | 2.60 | 0.715 | 0.194 | ND |
| AUGUST -2020 | 5.02 | 1.92 | 2.19 | 0.925 | 0.242 | ND |
| SEPTEMBER-2020 | 4.40 | 2.20 | 2.06 | 0.724 | 0.318 | ND |
| OCTOBER -2020 | 6.90 | 2.37 | 2.33 | 0.835 | 0.426 | ND |
| NOVEMBER -2020 | 6.12 | 1.76 | 2.72 | 0.864 | 0.248 | ND |
| DECEMBER -2020 | 4.87 | 1.81 | 1.75 | 0.677 | 0.430 | ND |
| AVERAGE | 5.42 | 1.83 | 1.14 | 0.395 | 0.155 | 0.0 |

ND= not detected

*NOTE: From January to June 2020, the metal analyses were performed using EPA method 200.7. From July to December 2020, they were performed using EPA method 200.8.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Trace Metals
EPA Method 200.8 and 200.7*

Annual 2020

| Analyte: | Thallium | Thallium | Vanadium | Vanadium | Zinc | Zinc |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MAX_MDL Units: | 3.37 UG/L | 3.37 UG/L | 1.09 UG/L | 1.09 UG/L | 10.4 UG/L | 10.4 UG/L |
| Source: | Influent | Effluent | Influent | Effluent | Influent | Effluent |
| Month/Limit: | | | | | | 6900 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | ND | ND | 4.76 | 1.94 | 198 | 56.1 |
| FEBRUARY -2020 | ND | ND | 2.95 | 2.08 | 199 | 66.9 |
| MARCH -2020 | ND | ND | 3.29 | 1.82 | 242 | 60.8 |
| APRIL -2020 | ND | ND | 4.91 | 1.78 | 154 | 54.5 |
| MAY -2020 | ND | ND | 4.08 | 1.37 | 221 | 69.2 |
| JUNE -2020 | ND | ND | 3.28 | 1.69 | 189 | 58.3 |
| JULY -2020 | ND | ND | 2.76 | 1.38 | 172 | 51.8 |
| AUGUST -2020 | ND | ND | 3.11 | 1.45 | 181 | 48.5 |
| SEPTEMBER-2020 | ND | ND | 2.64 | 1.30 | 171 | 36.0 |
| OCTOBER -2020 | ND | ND | 2.56 | 1.49 | 162 | 34.2 |
| NOVEMBER -2020 | ND | ND | 3.11 | 1.18 | 184 | 32.7 |
| DECEMBER -2020 | ND | ND | 2.43 | 1.06 | 157 | 35.8 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| AVERAGE | 0.0 | 0.0 | 3.32 | 1.55 | 186 | 50.4 |

ND= not detected

*NOTE: From January to June 2020, the metal analyses were performed using EPA method 200.7. From July to December 2020, they were performed using EPA method 200.8.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Ammonia-Nitrogen and Total Cyanides

Annual 2020

| Analyte: | Ammonia-N | Ammonia-N | Total Cyanide | Total Cyanide |
|-----------------|-----------|---------------|---------------|---------------|
| Max MDL/ Units: | 0.3 | 0.3 | 4 UG/L | 4 UG/L |
| Source: | SB_INF_02 | SB_OUTFALL_01 | SB_INF_02 | SB_OUTFALL_01 |
| ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 38.7 | ND | ND | ND |
| FEBRUARY -2020 | 40.0 | ND | ND* | ND |
| MARCH -2020 | 33.9 | ND | ND | ND |
| APRIL -2020 | 32.6 | 1.7 | ND | ND |
| MAY -2020 | 35.5 | ND | ND | ND |
| JUNE -2020 | 42.2 | ND | ND | ND |
| JULY -2020 | 40.8 | 0.6 | ND | ND |
| AUGUST -2020 | 42.1 | 0.8 | ND | ND |
| SEPTEMBER-2020 | 41.7 | 0.3 | ND | ND |
| OCTOBER -2020 | 40.0 | ND | ND | ND |
| NOVEMBER -2020 | 39.8 | ND | ND | ND |
| DECEMBER -2020 | 39.6 | ND | ND | ND |
| ===== | ===== | ===== | ===== | ===== |
| Average: | 38.9 | 0.3 | 0.0 | 0.0 |

*= Sample analyzed outside holding time; result is not used in average calculations.

Ammonia as N by SM4500-NH3 C

Cyanide, Total by EPA 335.4

ND= not detected; NR= not required

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Anions
EPA 300.0

ANNUAL 2020

| Analyte: | Bromide | Bromide | Chloride | Chloride | Fluoride | Fluoride |
|----------------|----------|----------|----------|----------|----------|----------|
| Max MDL: | 0.045 | 0.045 | 124 | 124 | 0.151 | 0.151 |
| Units: | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L |
| Source: | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 0.444 | 0.353 | 259 | 259 | 0.499 | 0.660 |
| FEBRUARY -2020 | 0.434 | 0.370 | 270 | 287 | 0.565 | 0.531 |
| MARCH -2020 | 0.409 | 0.416 | 253 | 265 | 0.515 | 0.534 |
| APRIL -2020 | 0.452 | ND | 258 | 261 | 0.532 | 0.560 |
| MAY -2020 | ND | ND | 262 | 311 | 0.353 | 0.547 |
| JUNE -2020 | ND | NA | 356 | NA | 0.382 | NA |
| JULY -2020 | ND | 0.552 | 253 | 259 | 0.512 | 0.582 |
| AUGUST -2020 | 0.053 | NR | 245 | NR | 0.462 | NR |
| SEPTEMBER-2020 | 0.165 | 0.448 | 240 | 256 | 0.413 | 0.619 |
| OCTOBER -2020 | ND | 0.432 | 235 | 247 | 0.442 | 0.508 |
| NOVEMBER -2020 | ND | 0.492* | 254 | 272* | <0.151 | 0.552* |
| DECEMBER -2020 | 0.074 | 0.423 | 252 | 268 | 1.780 | 0.442 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| AVERAGE | 0.169 | 0.333 | 261 | 268 | 0.538 | 0.554 |

| Analyte: | Nitrate | Nitrate | O-Phosphate | O-Phosphate (as P) | Sulfate | Sulfate |
|----------------|----------|----------|-------------|--------------------|----------|----------|
| Max MDL: | 6.0 | 6.0 | 0.63 | 0.63 | 57.7 | 57.7 |
| Units: | MG/L | MG/L | MG/L | MG/L | MG/L | MG/L |
| Source: | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT | INFLUENT | EFFLUENT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY -2020 | 0.502 | 39.6 | 13.0 | 6.13 | 126 | 156 |
| FEBRUARY -2020 | ND | 46.7 | 13.7 | 7.41 | 128 | 147 |
| MARCH -2020 | 1.10 | 36.8 | 7.23 | 4.56 | 105 | 136 |
| APRIL -2020 | 0.585 | 37.3* | 7.00 | 0.976 | 135 | 135 |
| MAY -2020 | 1.02 | 29.9 | 13.5 | ND | 120 | 152 |
| JUNE -2020 | ND | NA | 13.4 | NA | 85.3 | NA |
| JULY -2020 | ND | 9.33 | 12.8 | 6.46 | 98.8 | 130 |
| AUGUST -2020 | <6.0 | NR | 11.1 | NR | 120 | NR |
| SEPTEMBER-2020 | ND | 33.8 | 11.9 | 0.829 | 115 | 163 |
| OCTOBER -2020 | <6.0 | 43.5 | 11.4 | 7.08 | 132 | 185 |
| NOVEMBER -2020 | 0.396 | 36.7* | 12.4 | 6.08 | 125 | 160* |
| DECEMBER -2020 | <6.0 | 30.8** | 9.60 | ND** | 138 | 171 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| AVERAGE | 0.300 | 34.2 | 11.4 | 4.39 | 119.0 | 153 |

*= Analyte recovery in matrix spike sample outside method acceptance limits; value not used in average calculations.

**= Recovery of compound in matrix spike sample outside method acceptance limits; value is not used in average calculations.

ND= not detected; NA= not analyzed; NR= not required

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Cations
EPA 200.7

Annual 2020

| Analyte: | | Calcium | | Magnesium | | Lithium | |
|-----------------|-------|-----------|-------|------------|-------|------------|-------|
| Max MDL/ Units: | | 0.03 mg/L | | 0.029 mg/L | | 0.003 mg/L | |
| Source: | | INF | EFF | INF | EFF | INF | EFF |
| ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| JANUARY | -2020 | 60.1 | 60.3 | 27.1 | 28.4 | 0.014 | 0.014 |
| FEBRUARY | -2020 | 60.1 | 65.0 | 28.1 | 29.9 | 0.015 | 0.015 |
| MARCH | -2020 | 60.3 | 61.1 | 26.3 | 25.6 | 0.019 | 0.014 |
| APRIL | -2020 | 64.7 | 66.6 | 29.9 | 27.2 | 0.021 | 0.019 |
| MAY | -2020 | 64.1 | 72.3 | 30.3 | 33.7 | 0.025 | 0.021 |
| JUNE | -2020 | 72.6 | 65.4 | 31.9 | 28.8 | 0.023 | 0.022 |
| JULY | -2020 | 59.8 | 63.2 | 29.0 | 27.5 | 0.022 | 0.021 |
| AUGUST | -2020 | 63.3 | 61.8 | 29.5 | 27.8 | 0.026 | 0.024 |
| SEPTEMBER | -2020 | 67.9 | 73.6 | 30.1 | 28.3 | 0.029 | 0.029 |
| OCTOBER | -2020 | 71.3 | 73.7 | 29.3 | 30.2 | 0.033 | 0.033 |
| NOVEMBER | -2020 | 70.5 | 71.8 | 30.2 | 29.2 | 0.029 | 0.026 |
| DECEMBER | -2020 | 74.2 | 70.6 | 29.1 | 28.5 | 0.031 | 0.027 |
| ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| Average: | | 65.7 | 67.1 | 29.2 | 28.8 | 0.024 | 0.022 |

| Analyte: | | Sodium | | Potassium | |
|-----------------|-------|--------|-------|-----------|-------|
| Max MDL/ Units: | | 1 mg/L | | 0.12 mg/L | |
| Source: | | INF | EFF | INF | EFF |
| ===== | | ===== | ===== | ===== | ===== |
| JANUARY | -2020 | 201 | 195 | 19.0 | 16.2 |
| FEBRUARY | -2020 | 204 | 214 | 19.2 | 18.2 |
| MARCH | -2020 | 196 | 204 | 19.2 | 18.0 |
| APRIL | -2020 | 210 | 198 | 19.2 | 17.3 |
| MAY | -2020 | 224 | 256 | 21.5 | 19.4 |
| JUNE | -2020 | 230 | 217 | 20.4 | 18.4 |
| JULY | -2020 | 215 | 207 | 21.1 | 18.7 |
| AUGUST | -2020 | 217 | 214 | 20.9 | 17.8 |
| SEPTEMBER | -2020 | 223 | 221 | 21.2 | 18.1 |
| OCTOBER | -2020 | 215 | 226 | 20.6 | 19.4 |
| NOVEMBER | -2020 | 218 | 226 | 20.4 | 18.5 |
| DECEMBER | -2020 | 214 | 224 | 20.7 | 18.0 |
| ===== | | ===== | ===== | ===== | ===== |
| Average: | | 214 | 217 | 20.3 | 18.2 |

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SOURCE: INFLUENT (SB_INF_02)

CHLORINATED PESTICIDE ANALYSIS, EPA Method 608.3 (WITH ADDITIONS)

Annual 2020

| Source: | | | INFLUENT | | | | | Avg |
|----------------------------|-------|-----------|----------|-------|-------|-------|-------|-------|
| Date: | | | FEB | MAY | JUN | AUG | OCT | |
| Analyte | Max | MDL Units | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aldrin | 6.88 | NG/L | ND | ND | ND | ND | ND | ND |
| Dieldrin | 5.15 | NG/L | ND | ND | ND | ND | ND | ND |
| BHC, Alpha isomer | 6.2 | NG/L | ND | ND | ND | ND | ND | ND |
| BHC, Beta isomer | 4.76 | NG/L | ND | ND | ND | ND | ND | ND |
| BHC, Gamma isomer | 6.64 | NG/L | ND | ND | ND | ND | ND | ND |
| BHC, Delta isomer | 6.44 | NG/L | ND | ND | ND | ND | ND | ND |
| p,p-DDD | 6.13 | NG/L | ND | ND | ND | ND | ND | ND |
| p,p-DDE | 4.96 | NG/L | ND | ND | ND | ND | ND | ND |
| p,p-DDT | 8.64 | NG/L | ND | ND | ND | ND | ND | ND |
| o,p-DDD | 7.26 | NG/L | ND | ND | ND | ND | ND | ND |
| o,p-DDE | 6.48 | NG/L | ND | ND | ND | ND | ND | ND |
| o,p-DDT | 7.51 | NG/L | ND | ND | ND | ND | ND | ND |
| Heptachlor | 9.4 | NG/L | ND | ND | ND | ND | ND | ND |
| Heptachlor epoxide | 8 | NG/L | ND | ND | ND | ND | ND | ND |
| Alpha (cis) Chlordane | 6.6 | NG/L | ND | ND | ND | ND | ND | ND |
| Gamma (trans) Chlordane | 4.87 | NG/L | ND | ND | ND | ND | ND | ND |
| Alpha Chlordene | 0 | NG/L | NA | NA | NA | NA | NA | NA |
| Gamma Chlordene | 0 | NG/L | NA | NA | NA | NA | NA | NA |
| Oxychlordane | 19.3 | NG/L | ND | ND | ND | ND | ND | ND |
| Trans Nonachlor | 9.13 | NG/L | ND | ND | ND | ND | ND | ND |
| Cis Nonachlor | 9.48 | NG/L | ND | ND | ND | ND | ND | ND |
| Alpha Endosulfan | 7.61 | NG/L | ND | ND | ND | ND | ND | ND |
| Beta Endosulfan | 13 | NG/L | ND | ND | ND | ND | ND | ND |
| Endosulfan Sulfate | 8.8 | NG/L | ND | ND | ND | ND | ND | ND |
| Endrin | 8.84 | NG/L | ND | ND | ND | ND | ND | ND |
| Endrin aldehyde | 8.36 | NG/L | ND | ND | ND | ND | ND | ND |
| Mirex | 12.7 | NG/L | ND | ND | ND | ND | ND | ND |
| Methoxychlor | 8.78 | NG/L | ND | ND | ND | ND | ND | ND |
| Toxaphene | 584 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1016 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1221 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1232 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1242 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1248 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1254 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1260 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| PCB 1262 | 761 | NG/L | ND | ND | ND | ND | ND | ND |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aldrin + Dieldrin | 6.88 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| Hexachlorocyclohexanes | 6.64 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| DDT and derivatives | 8.64 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| Chlordane + related cmpds. | 19.3 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| Polychlorinated biphenyls | 761 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| Endosulfans | 13 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Heptachlors | 9.4 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Chlorinated Hydrocarbons | 761 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 |

ND= not detected; NA= not analyzed

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

SOUTH BAY WATER RECLAMATION PLANT
SOURCE: INFLUENT (SB_INF_02)

CHLORINATED PESTICIDE ANALYSIS, EPA Method 608.3 (WITH ADDITIONS)

Annual 2020

| Source: | | | EFFLUENT | | | | | | | | | | | | Avg |
|----------------------------|-------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Date: | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| Analyte | Max | MDL Units | | | | | | | | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aldrin | 6.88 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dieldrin | 5.15 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Alpha isomer | 6.2 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Beta isomer | 4.76 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Gamma isomer | 6.64 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Delta isomer | 6.44 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDD | 6.13 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDE | 4.96 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDT | 8.64 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDD | 7.26 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDE | 6.48 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDT | 7.51 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor | 9.4 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor epoxide | 8 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha (cis) Chlordane | 6.6 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Gamma (trans) Chlordane | 4.87 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Chlordene | 0 | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Gamma Chlordene | 0 | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Oxychlordane | 19.3 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trans Nonachlor | 9.13 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cis Nonachlor | 9.48 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Endosulfan | 7.61 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Beta Endosulfan | 13 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endosulfan Sulfate | 8.8 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin | 8.84 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin aldehyde | 8.36 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Mirex | 12.7 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methoxychlor | 8.78 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toxaphene | 584 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1016 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1221 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1232 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1242 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1248 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1254 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1260 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1262 | 761 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Aldrin + Dieldrin | 6.88 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hexachlorocyclohexanes | 6.64 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DDT and derivatives | 8.64 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chlordane + related cmpds. | 19.3 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Polychlorinated biphenyls | 761 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Endosulfans | 13 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Heptachlors | 9.4 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Chlorinated Hydrocarbons | 761 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ND= not detected; NA= not analyzed

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT(SB_INF_02) & EFFLUENT(SB_OUTFALL_01)

Organophosphorus Pesticides - EPA Method 614 (with additions)

Annual 2020

| Source: | | | Influent | Influent | Influent | Influent* |
|-----------------------------------|---------|-------|-------------|-------------|-------------|-------------|
| Date: | | | 04-FEB-2020 | 05-MAY-2020 | 11-AUG-2020 | 06-OCT-2020 |
| Analyte | Max MDL | Units | P1143886 | P1163168 | P1182189 | P1194410 |
| Demeton O | 0.0875 | UG/L | ND | ND | ND | ND |
| Demeton S | 0.608 | UG/L | ND | ND | ND | ND |
| Diazinon | 0.142 | UG/L | ND | ND | ND | ND |
| Guthion | 0.264 | UG/L | ND | ND | ND | ND |
| Malathion | 0.11 | UG/L | ND | ND | ND | ND |
| Parathion | 0.0489 | UG/L | ND | ND | ND | ND |
| Dichlorvos | 0.0853 | UG/L | ND | ND | ND | ND |
| Disulfoton | 0.0577 | UG/L | ND | ND | ND | ND |
| Stirophos | 0.106 | UG/L | ND | ND | ND | ND |
| Coumaphos | 0.0638 | UG/L | ND | ND | ND | ND |
| Chlorpyrifos | 0.0902 | UG/L | ND | ND | ND | ND |
| Thiophosphorus Pesticides | 0.264 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |
| Demeton -O, -S | 0.608 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Organophosphorus Pesticides | 0.608 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |

| Source: | | | Effluent | Effluent | Effluent | Effluent* |
|-----------------------------------|---------|-------|-------------|-------------|-------------|-------------|
| Date: | | | 04-FEB-2020 | 05-MAY-2020 | 11-AUG-2020 | 06-OCT-2020 |
| Analyte | Max MDL | Units | P1143891 | P1163173 | P1182192 | P1194415 |
| Demeton O | 0.0875 | UG/L | ND | ND | ND | ND |
| Demeton S | 0.608 | UG/L | ND | ND | ND | ND |
| Diazinon | 0.142 | UG/L | ND | ND | ND | ND |
| Guthion | 0.264 | UG/L | ND | ND | ND | ND |
| Malathion | 0.11 | UG/L | ND | ND | ND | ND |
| Parathion | 0.0489 | UG/L | ND | ND | ND | ND |
| Dichlorvos | 0.0853 | UG/L | ND | ND | ND | ND |
| Disulfoton | 0.0577 | UG/L | ND | ND | ND | ND |
| Stirophos | 0.106 | UG/L | ND | ND | ND | ND |
| Coumaphos | 0.0638 | UG/L | ND | ND | ND | ND |
| Chlorpyrifos | 0.0902 | UG/L | ND | ND | ND | ND |
| Thiophosphorus Pesticides | 0.264 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |
| Demeton -O, -S | 0.608 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Organophosphorus Pesticides | 0.608 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 |

*= Data quality review deemed the batch as not reportable due to the recoveries of several analytes not meeting the method acceptance criteria in either the initial or closing calibration verification standards.

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02)

Dioxin and Furan Analysis
EPA Method 1613

Annual 2020

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | JAN | FEB | MAR | APR |
| Analyte | Max MDL | Units | Equiv | P1137988 | P1143886 | P1152021 | P1158732 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ10.2 | DNQ10.1 | DNQ8.00 | DNQ11.30 |
| octa CDD | 0.00105 | PG/L | 0.001 | 100 | 100 | 79.0 | 120 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ5.19 | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ7.61 | ND | ND | ND |

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | MAY | JUN | JUL | AUG |
| Analyte | Max MDL | Units | Equiv | P1163168 | P1171515 | P1177566 | P1181616 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ13.4 | DNQ9.44 | DNQ18.3 | DNQ17.6 |
| octa CDD | 0.00105 | PG/L | 0.001 | 120 | 80.0 | 180 | 150 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ2.53 | DNQ3.92 | DNQ3.74 | DNQ3.32 |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ5.19 | DNQ5.37 | DNQ6.99 | DNQ6.57 |

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | SEP | OCT | NOV | DEC |
| Analyte | Max MDL | Units | Equiv | P1188642 | P1194410 | P1199472 | P1205598 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ12.8 | DNQ10.2 | DNQ14.4 | DNQ7.12 |
| octa CDD | 0.00105 | PG/L | 0.001 | 93.0 | 120 | 150 | 80.0 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | DNQ1.05 | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | DNQ1.86 | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ2.79 | DNQ3.03 | DNQ2.54 | DNQ2.38 |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ4.34 | DNQ5.46 | DNQ5.29 | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: EFFLUENT (SB_OUTFALL_01)

Dioxin and Furan Analysis
EPA Method 1613

Annual 2020

| Source: | | | | EFF | EFF | EFF | EFF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | JAN | FEB | MAR | APR |
| Analyte | Max MDL | Units | Equiv | P1139384 | P1143891 | P1152024 | P1158735 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ1.83 | ND | ND | ND |
| octa CDD | 0.00105 | PG/L | 0.001 | DNQ8.58 | DNQ8.16 | ND | ND |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

| Source: | | | | EFF | EFF | EFF | EFF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | MAY | JUN | JUL | AUG |
| Analyte | Max MDL | Units | Equiv | P1163173 | P1171694 | P1177569 | P1181621 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | ND | ND | DNQ2.83 | DNQ1.80 |
| octa CDD | 0.00105 | PG/L | 0.001 | ND | ND | DNQ17.3 | DNQ11.0 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

| Source: | | | | EFF | EFF | EFF | EFF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| Date: | | | | SEP | OCT | NOV | DEC |
| Analyte | Max MDL | Units | Equiv | P1188645 | P1194415 | P1199475 | P1205601 |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDD | 0.00105 | PG/L | 0.001 | DNQ4.78 | ND | ND | ND |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02)

Dioxin and Furan Analysis
EPA Method 1613

Annual 2020

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| | | | | TCCD | TCCD | TCCD | TCCD |
| Date: | | | | JAN | FEB | MAR | APR |
| Analyte | Max MDL | Units | Equiv | P1137988 | P1143886 | P1152021 | P1158732 |
| ===== | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ0.102 | DNQ0.101 | DNQ0.080 | DNQ0.113 |
| octa CDD | 0.00105 | PG/L | 0.001 | 0.10 | 0.10 | 0.079 | 0.12 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ0.052 | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ0.008 | ND | ND | ND |

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| | | | | TCCD | TCCD | TCCD | TCCD |
| Date: | | | | MAY | JUN | JUL | AUG |
| Analyte | Max MDL | Units | Equiv | P1163168 | P1171515 | P1177566 | P1181616 |
| ===== | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ0.134 | DNQ0.094 | DNQ0.183 | DNQ0.176 |
| octa CDD | 0.00105 | PG/L | 0.001 | 0.12 | 0.080 | 0.180 | 0.150 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ0.025 | DNQ0.039 | DNQ0.037 | DNQ0.033 |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ0.005 | DNQ0.005 | DNQ0.007 | DNQ0.007 |

| Source: | | | | INF | INF | INF | INF |
|-------------------------|----------|-------|-------|----------|----------|----------|----------|
| | | | | TCCD | TCCD | TCCD | TCCD |
| Date: | | | | SEP | OCT | NOV | DEC |
| Analyte | Max MDL | Units | Equiv | P1188642 | P1194410 | P1199472 | P1205598 |
| ===== | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ0.128 | DNQ0.102 | DNQ0.144 | DNQ0.071 |
| octa CDD | 0.00105 | PG/L | 0.001 | 0.093 | 0.120 | 0.150 | 0.080 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | DNQ0.105 | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | DNQ0.186 | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | DNQ0.028 | DNQ0.030 | DNQ0.025 | DNQ0.024 |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | DNQ0.004 | DNQ0.005 | DNQ0.005 | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: EFFLUENT (SB_OUTFALL_01)

Dioxin and Furan Analysis
EPA Method 1613

Annual 2020

Effluent Limit (TCDD): 0.37 pg/L (30-day Average)

| Source: | | | | EFF TCCD JAN P1139384 | EFF TCCD FEB P1143891 | EFF TCCD MAR P1152024 | EFF TCCD APR P1158735 |
|-------------------------|----------|------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Date: | Max | MDL | Units | Equiv | | | |
| Analyte | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | DNQ0.018 | ND | ND | ND |
| octa CDD | 0.00105 | PG/L | 0.001 | DNQ0.009 | DNQ0.008 | ND | ND |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

| Source: | | | | EFF TCCD MAY P1163173 | EFF TCCD JUN P1171694 | EFF TCCD JUL P1177569 | EFF TCCD AUG P1181621 |
|-------------------------|----------|------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Date: | Max | MDL | Units | Equiv | | | |
| Analyte | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | ND | ND | DNQ0.028 | DNQ0.018 |
| octa CDD | 0.00105 | PG/L | 0.001 | ND | ND | DNQ0.017 | DNQ0.011 |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

| Source: | | | | EFF TCCD SEP P1188645 | EFF TCCD OCT P1194415 | EFF TCCD NOV P1199475 | EFF TCCD DEC P1205601 |
|-------------------------|----------|------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Date: | Max | MDL | Units | Equiv | | | |
| Analyte | | | | | | | |
| 2,3,7,8-tetra CDD | 0.448 | PG/L | 1.000 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 0.2875 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa_CDD | 0.0687 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 0.0715 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 0.0663 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 0.00793 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDD | 0.00105 | PG/L | 0.001 | DNQ0.005 | ND | ND | ND |
| 2,3,7,8-tetra CDF | 0.041 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 0.0261 | PG/L | 0.050 | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 0.2455 | PG/L | 0.500 | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 0.0506 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 0.052 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 0.0618 | PG/L | 0.100 | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 0.0524 | PG/L | 0.100 | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 0.00548 | PG/L | 0.010 | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 0.00735 | PG/L | 0.010 | ND | ND | ND | ND |
| octa CDF | 0.000992 | PG/L | 0.001 | ND | ND | ND | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

Above are permit required CDD/CDF isomers.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625.1

Annual 2020

| Source: | | | INFLUENT | | | | |
|------------------------------------|---------|-------|----------|------|------|------|---------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | | | | | Average |
| 2-Chlorophenol | 0.468 | UG/L | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol | 0.537 | UG/L | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol | 0.460 | UG/L | ND | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | 0.605 | UG/L | ND | ND | ND | ND | ND |
| Pentachlorophenol | 0.914 | UG/L | ND | ND | ND | ND | ND |
| Phenol | 0.487 | UG/L | 38.1 | 54.3 | 58.8 | 55.6 | 51.7 |
| 2-Nitrophenol | 0.546 | UG/L | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | 2.01 | UG/L | ND | ND | ND | ND | ND |
| 2,4-Dinitrophenol | 2.44 | UG/L | ND | ND | ND | ND | ND |
| 4-Nitrophenol | 0.626 | UG/L | ND | ND | ND | ND | ND |
| 4,6-dinitro-2-methylphenol | 1.33 | UG/L | ND | ND | ND | ND | ND |
| 2-Methylphenol | 0.270 | UG/L | ND | ND | ND | ND | ND |
| 3-Methylphenol(4-MP is unresolved) | | UG/L | NA | NA | NA | NA | NA |
| 4-Methylphenol(3-MP is unresolved) | 0.402 | UG/L | 67.3 | 80.4 | 99.8 | 96.4 | 86.0 |
| 2,4,5-Trichlorophenol | 0.631 | UG/L | ND | ND | ND | ND | ND |
| Total Chlorinated Phenols | 0.914 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Non-Chlorinated Phenols | 2.44 | UG/L | 105 | 135 | 159 | 152 | 138 |
| Total Phenols | 2.44 | UG/L | 105 | 135 | 159 | 152 | 138 |

| Source: | | | EFFLUENT | | | | | | | | | | | | |
|------------------------------------|---------|-------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Date: | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| Analyte | Max MDL | Units | | | | | | | | | | | | | Average |
| 2-Chlorophenol | 0.468 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol | 0.537 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol | 0.460 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | 0.605 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Pentachlorophenol | 0.914 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Phenol | 0.487 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Nitrophenol | 0.546 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | 2.01 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dinitrophenol | 2.44 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Nitrophenol | 0.626 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4,6-dinitro-2-methylphenol | 1.33 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Methylphenol | 0.270 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3-Methylphenol(4-MP is unresolved) | | UG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 4-Methylphenol(3-MP is unresolved) | 0.402 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,5-Trichlorophenol | 0.631 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Chlorinated Phenols | 0.914 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Non-Chlorinated Phenols | 2.44 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Phenols | 2.44 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

ND=not detected; NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02)

Priority Pollutants Base/Neutral Compounds, EPA Method 625.1

Annual 2020

| Source: | | | INFLUENT | | | | |
|--------------------------------|---------|-------|----------|-------|------|--------|----------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | Avg | Avg | Avg | Avg | Average |
| Bis-(2-chloroethyl) ether | 0.561 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-chloroisopropyl) ether | 0.609 | UG/L | ND | ND | ND | ND | ND |
| N-nitrosodi-n-propylamine | 0.549 | UG/L | ND | ND | ND | ND | ND |
| Nitrobenzene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Hexachloroethane | 0.455 | UG/L | ND | ND | ND | ND | ND |
| Isophorone | 0.525 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-chloroethoxy) methane | 0.473 | UG/L | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 0.561 | UG/L | ND | ND | ND | ND | ND |
| Naphthalene | 0.550 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | 0.484 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | 0.515 | UG/L | ND | ND | ND | ND | ND |
| Acenaphthylene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Dimethyl phthalate | 0.526 | UG/L | ND | ND | ND | ND | ND |
| 2,6-Dinitrotoluene | 0.495 | UG/L | ND | ND | ND | ND | ND |
| Acenaphthene | 0.544 | UG/L | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | 0.562 | UG/L | ND | ND | ND | ND | ND |
| Fluorene | 0.609 | UG/L | ND | ND | ND | ND | ND |
| 4-Chlorophenyl phenyl ether | 0.535 | UG/L | ND | ND | ND | ND | ND |
| Diethyl phthalate | 1.68 | UG/L | 3.32 | 2.86 | 4.08 | 3.58 | 3.46 |
| N-nitrosodiphenylamine | 0.562 | UG/L | ND | ND | ND | ND | ND |
| 4-Bromophenyl phenyl ether | 0.645 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorobenzene | 0.712 | UG/L | ND | ND | ND | ND | ND |
| Phenanthrene | 0.549 | UG/L | ND | ND | ND | ND | ND |
| Anthracene | 0.717 | UG/L | ND | ND | ND | ND | ND |
| Di-n-butyl phthalate | 1.37 | UG/L | ND | NDDNQ | 0.96 | DNQ | 1.18 DNQ |
| N-nitrosodimethylamine | 1.08 | UG/L | ND | ND | ND | ND | ND |
| Fluoranthene | 0.882 | UG/L | ND | ND | ND | ND | ND |
| Pyrene | 0.697 | UG/L | ND | ND | ND | ND | ND |
| Benzidine | 3.34 | UG/L | ND | ND | ND^ | ND | ND |
| Butyl benzyl phthalate | 0.776 | UG/L | ND | ND | 1.93 | ND | 0.48 |
| Chrysene | 0.611 | UG/L | ND | ND | ND | ND | ND |
| Benzo[a]anthracene | 0.782 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-ethylhexyl) phthalate | 3.84 | UG/L | 6.64* | 14.7 | 9.90 | 6.51** | 12.3 |
| Di-n-octyl phthalate | 0.738 | UG/L | ND | ND | ND | ND | ND |
| 3,3-Dichlorobenzidine | 1.85 | UG/L | ND | ND | ND | ND | ND |
| Benzo[k]fluoranthene | 0.725 | UG/L | ND | ND | ND | ND | ND |
| 3,4-Benzo(b)fluoranthene | 0.697 | UG/L | ND | ND | ND | ND | ND |
| Benzo[a]pyrene | 0.687 | UG/L | ND | ND | ND | ND | ND |
| Indeno(1,2,3-CD)pyrene | 0.641 | UG/L | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | 0.613 | UG/L | ND | ND | ND | ND | ND |
| Benzo[g,h,i]perylene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Diphenylhydrazine | 0.828 | UG/L | ND | ND | ND | ND | ND |
| Polynuc. Aromatic Hydrocarbons | 0.782 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Base/Neutral Compounds | 3.84 | UG/L | 3.32 | 17.6 | 15.9 | 3.58 | 10.1 |

Additional analytes determined

| Analyte | Max MDL | Units | FEB | MAY | AUG | OCT | Average |
|----------------------------|---------|-------|-----|-----|-----|-----|----------|
| 1-Methylnaphthalene | 0.628 | UG/L | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | 0.644 | UG/L | ND | ND | ND | ND | ND |
| 2,6-Dimethylnaphthalene | 0.560 | UG/L | ND | ND | ND | ND | ND |
| 2,3,5-Trimethylnaphthalene | 0.582 | UG/L | ND | ND | ND | ND | ND |
| 1-Methylphenanthrene | 0.823 | UG/L | ND | ND | ND | ND | ND |
| Benzo[e]pyrene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Perylene | 1.04 | UG/L | ND | ND | ND | ND | ND |
| Biphenyl | 0.616 | UG/L | ND | ND | ND | DNQ | 0.27 DNQ |

*= Analyte present in method blank at a concentration >10% of the sample result; therefore, not reportable.

**= Recovery of the internal standard outside method acceptance criteria; value not included in average calculations.

= Relative percent difference of sample duplicates outside method acceptance criteria; value not included in average calculations.

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02)

Priority Pollutants Base/Neutral Compounds, EPA Method 625.1

Annual 2020

| Source: | | | EFFLUENT | | | | |
|--------------------------------|---------|-------|----------|----------|-----|-----|----------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | Avg | Avg | Avg | Avg | Average |
| Bis-(2-chloroethyl) ether | 0.561 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-chloroisopropyl) ether | 0.609 | UG/L | ND | ND | ND | ND | ND |
| N-nitrosodi-n-propylamine | 0.549 | UG/L | ND | ND | ND | ND | ND |
| Nitrobenzene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Hexachloroethane | 0.455 | UG/L | ND | ND | ND | ND | ND |
| Isophorone | 0.525 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-chloroethoxy) methane | 0.473 | UG/L | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 0.561 | UG/L | ND | ND | ND | ND | ND |
| Naphthalene | 0.550 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | 0.484 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | 0.515 | UG/L | ND | ND | ND | ND | ND |
| Acenaphthylene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Dimethyl phthalate | 0.526 | UG/L | ND | ND | ND | ND | ND |
| 2,6-Dinitrotoluene | 0.495 | UG/L | ND | ND | ND | ND | ND |
| Acenaphthene | 0.544 | UG/L | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | 0.562 | UG/L | ND | ND | ND | ND | ND |
| Fluorene | 0.609 | UG/L | ND | ND | ND | ND | ND |
| 4-Chlorophenyl phenyl ether | 0.535 | UG/L | ND | ND | ND | ND | ND |
| Diethyl phthalate | 1.68 | UG/L | ND | DNQ0.242 | ND | ND | DNQ0.061 |
| N-nitrosodiphenylamine | 0.562 | UG/L | ND | ND | ND | ND | ND |
| 4-Bromophenyl phenyl ether | 0.645 | UG/L | ND | ND | ND | ND | ND |
| Hexachlorobenzene | 0.712 | UG/L | ND | ND | ND | ND | ND |
| Phenanthrene | 0.549 | UG/L | ND | ND | ND | ND | ND |
| Anthracene | 0.717 | UG/L | ND | ND | ND | ND | ND |
| Di-n-butyl phthalate | 1.37 | UG/L | ND | ND | ND | ND | ND |
| N-nitrosodimethylamine | 1.08 | UG/L | ND | ND | ND | ND | ND |
| Fluoranthene | 0.882 | UG/L | ND | ND | ND | ND | ND |
| Pyrene | 0.697 | UG/L | ND | ND | ND | ND | ND |
| Benzidine | 3.34 | UG/L | ND | ND | ND^ | ND | ND |
| Butyl benzyl phthalate | 0.776 | UG/L | ND | ND | ND | ND | ND |
| Chrysene | 0.611 | UG/L | ND | ND | ND | ND | ND |
| Benzo[a]anthracene | 0.782 | UG/L | ND | ND | ND | ND | ND |
| Bis-(2-ethylhexyl) phthalate | 3.84 | UG/L | 6.50 | 9.30 | ND | ND | 3.95 |
| Di-n-octyl phthalate | 0.738 | UG/L | ND | ND | ND | ND | ND |
| 3,3-Dichlorobenzidine | 1.85 | UG/L | ND | ND | ND | ND | ND |
| Benzo[k]fluoranthene | 0.725 | UG/L | ND | ND | ND | ND | ND |
| 3,4-Benzo(b)fluoranthene | 0.697 | UG/L | ND | ND | ND | ND | ND |
| Benzo[a]pyrene | 0.687 | UG/L | ND | ND | ND | ND | ND |
| Indeno(1,2,3-CD)pyrene | 0.641 | UG/L | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | 0.613 | UG/L | ND | ND | ND | ND | ND |
| Benzo[g,h,i]perylene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Diphenylhydrazine | 0.828 | UG/L | ND | ND | ND | ND | ND |
| Polynuc. Aromatic Hydrocarbons | 0.782 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Base/Neutral Compounds | 3.84 | UG/L | 6.50 | 9.30 | 0.0 | 0.0 | 3.95 |

Additional analytes determined

| Analyte | Max MDL | Units | FEB Avg | MAY Avg | AUG Avg | OCT Avg | Average |
|----------------------------|---------|-------|---------|---------|---------|---------|---------|
| 1-Methylnaphthalene | 0.628 | UG/L | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | 0.644 | UG/L | ND | ND | ND | ND | ND |
| 2,6-Dimethylnaphthalene | 0.560 | UG/L | ND | ND | ND | ND | ND |
| 2,3,5-Trimethylnaphthalene | 0.582 | UG/L | ND | ND | ND | ND | ND |
| 1-Methylphenanthrene | 0.823 | UG/L | ND | ND | ND | ND | ND |
| Benzo[e]pyrene | 0.665 | UG/L | ND | ND | ND | ND | ND |
| Perylene | 1.04 | UG/L | ND | ND | ND | ND | ND |
| Biphenyl | 0.616 | UG/L | ND | ND | ND | ND | ND |

^= Relative percent difference of sample duplicates outside method acceptance criteria; value not included in average calculations.

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT
SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)
Priority Pollutants Purgeable Compounds, EPA Method 624.1

Annual 2020

| Source: | | | INFLUENT | | | | Average |
|------------------------------|---------|-------|----------|----------|----------|----------|---------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | | | | | |
| Chloromethane | 0.729 | UG/L | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.948 | UG/L | ND | ND | ND | ND | ND |
| Bromomethane | 1.02 | UG/L | ND | ND | ND | ND | ND |
| Chloroethane | 0.405 | UG/L | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 0.411 | UG/L | ND | ND | ND | ND | ND |
| Acrolein | 0.748 | UG/L | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.381 | UG/L | ND | ND | ND | ND | ND |
| Methylene chloride | 0.563 | UG/L | DNQ0.679 | DNQ0.738 | DNQ0.807 | ND | ND |
| trans-1,2-dichloroethene | 0.364 | UG/L | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 0.375 | UG/L | ND | ND | ND | ND | ND |
| Acrylonitrile | 0.585 | UG/L | ND | ND | ND | ND | ND |
| Chloroform | 0.446 | UG/L | DNQ1.43 | 4.35 | DNQ1.79 | DNQ1.27 | 1.09 |
| 1,1,1-Trichloroethane | 0.335 | UG/L | ND | ND | ND | ND | ND |
| Carbon tetrachloride | 0.422 | UG/L | ND | ND | ND | ND | ND |
| Benzene | 0.354 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.652 | UG/L | ND | ND | ND | ND | ND |
| Trichloroethene | 0.337 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 0.280 | UG/L | ND | ND | ND | ND | ND |
| Bromodichloromethane | 0.436 | UG/L | ND | 2.44 | ND | ND | 0.61 |
| 2-Chloroethylvinyl ether | 0.488 | UG/L | ND | ND | ND | ND | ND |
| cis-1,3-dichloropropene | 0.196 | UG/L | ND | ND | ND | ND | ND |
| Toluene | 0.241 | UG/L | DNQ1.24 | 2.17 | 3.53 | DNQ0.644 | 1.43 |
| trans-1,3-dichloropropene | 0.287 | UG/L | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 0.268 | UG/L | ND | ND | ND | ND | ND |
| Tetrachloroethene | 0.482 | UG/L | ND | ND | ND | ND | ND |
| Dibromochloromethane | 0.458 | UG/L | ND | DNQ1.39 | ND | ND | ND |
| Chlorobenzene | 0.309 | UG/L | ND | ND | ND | ND | ND |
| Ethylbenzene | 0.236 | UG/L | ND | DNQ0.667 | ND | ND | ND |
| Bromoform | 0.385 | UG/L | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.390 | UG/L | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 0.293 | UG/L | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 0.289 | UG/L | ND | ND | DNQ0.722 | DNQ0.519 | ND |
| 1,2-Dichlorobenzene | 0.327 | UG/L | ND | ND | ND | ND | ND |
| ===== | | | | | | | |
| Halomethane Purgeable Cmpnds | 1.02 | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ===== | | | | | | | |
| Total Dichlorobenzenes | | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ===== | | | | | | | |
| Total Chloromethanes | 0.729 | UG/L | 0.00 | 4.35 | 0.00 | 0.00 | 1.09 |
| ===== | | | | | | | |
| Purgeable Compounds | 1.02 | UG/L | 0.00 | 8.96 | 3.53 | 0.00 | 3.13 |
| ===== | | | | | | | |
| Additional analytes | | | | | | | |
| ===== | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.561 | UG/L | ND | ND | ND | ND | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range

SOUTH BAY WATER RECLAMATION PLANT
SOURCE: EFFLUENT (SB_OUTFALL_01)
Priority Pollutants Purgeable Compounds, EPA Method 624.1

Annual 2020

| Source: | | | EFFLUENT | | | | Average |
|------------------------------|---------|-------|----------|----------|-------|----------|---------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Chloromethane | 0.729 | UG/L | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.948 | UG/L | ND | ND | ND | ND | ND |
| Bromomethane | 1.02 | UG/L | ND | ND | ND | ND | ND |
| Chloroethane | 0.405 | UG/L | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 0.411 | UG/L | ND | ND | ND | ND | ND |
| Acrolein | 0.748 | UG/L | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.381 | UG/L | ND | ND | ND | ND | ND |
| Methylene chloride | 0.563 | UG/L | ND | ND | ND | ND | ND |
| trans-1,2-dichloroethene | 0.364 | UG/L | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 0.375 | UG/L | ND | ND | ND | ND | ND |
| Acrylonitrile | 0.585 | UG/L | ND | ND | ND | ND | ND |
| Chloroform | 0.446 | UG/L | DNQ0.708 | DNQ0.503 | ND | DNQ0.793 | ND |
| 1,1,1-Trichloroethane | 0.335 | UG/L | ND | ND | ND | ND | ND |
| Carbon tetrachloride | 0.422 | UG/L | ND | ND | ND | ND | ND |
| Benzene | 0.354 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.652 | UG/L | ND | ND | ND | ND | ND |
| Trichloroethene | 0.337 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 0.280 | UG/L | ND | ND | ND | ND | ND |
| Bromodichloromethane | 0.436 | UG/L | ND | ND | ND | ND | ND |
| 2-Chloroethylvinyl ether | 0.488 | UG/L | ND | ND | ND | ND | ND |
| cis-1,3-dichloropropene | 0.196 | UG/L | ND | ND | ND | ND | ND |
| Toluene | 0.241 | UG/L | ND | ND | ND | ND | ND |
| trans-1,3-dichloropropene | 0.287 | UG/L | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 0.268 | UG/L | ND | ND | ND | ND | ND |
| Tetrachloroethene | 0.482 | UG/L | ND | ND | ND | ND | ND |
| Dibromochloromethane | 0.458 | UG/L | ND | ND | ND | ND | ND |
| Chlorobenzene | 0.309 | UG/L | ND | ND | ND | ND | ND |
| Ethylbenzene | 0.236 | UG/L | ND | ND | ND | ND | ND |
| Bromoform | 0.385 | UG/L | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.390 | UG/L | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 0.293 | UG/L | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 0.289 | UG/L | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 0.327 | UG/L | ND | ND | ND | ND | ND |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Halomethane Purgeable Cmpnds | 1.02 | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Total Dichlorobenzenes | | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Total Chloromethanes | 0.729 | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Purgeable Compounds | 1.02 | UG/L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Additional analytes | | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 1,2,4-Trichlorobenzene | 0.561 | UG/L | ND | ND | ND | ND | ND |

ND= not detected

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range

SOUTH BAY WATER RECLAMATION PLANT
Radioactivity
EPA Method 900.0

Effluent to the Ocean (SB_OUTFALL_01)

Analyzed by: FGL Environmental Agricultural Analytical

Annual 2020

| Month/ Year | Gross Alpha Radiation | Gross Beta Radiation |
|----------------|-----------------------|----------------------|
| ===== | ===== | ===== |
| JANUARY -2020 | 8.36 ± 1.89 | 17.5 ± 1.93 |
| FEBRUARY -2020 | 8.83 ± 1.39 | 10.8 ± 1.33 |
| MARCH -2020 | 15.1 ± 2.27 | 18.8 ± 2.05 |
| APRIL -2020 | 10.5 ± 1.67 | 16.5 ± 1.76 |
| MAY -2020 | 9.16 ± 1.94 | 11.9 ± 1.78 |
| JUNE -2020 | 9.68 ± 1.30 | 6.39 ± 0.85 |
| JULY -2020 | 14.3 ± 2.18 | 11.9 ± 1.85 |
| AUGUST -2020 | 15.2 ± 2.06 | 8.62 ± 1.78 |
| SEPTEMBER-2020 | 9.89 ± 1.12 | 10.5 ± 1.55 |
| OCTOBER -2020 | 14.3 ± 2.37 | 8.73 ± 1.73 |
| NOVEMBER -2020 | 10.7 ± 2.06 | 9.06 ± 1.71 |
| DECEMBER -2020 | 11.0 ± 1.77 | 8.64 ± 1.49 |
| ===== | ===== | ===== |
| AVERAGE | 11.4 ± 1.84 | 11.6 ± 1.65 |

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT
SAMPLE SOURCE: INFLUENT (SB_INF_02) AND EFFLUENT (SB_OUTFALL_01)

Tributyl Tin Analysis
(In-house Method)

Annual 2020

| Source: | | | INFLUENT | | | | |
|--------------|---------|-------|----------|-------|-------|-------|---------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | | | | | Average |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Dibutyltin | 0.0301 | UG/L | ND | ND | ND | ND | 0.0 |
| Monobutyltin | 0.0177 | UG/L | ND | ND | ND | ND | 0.0 |
| Tributyltin | 0.0171 | UG/L | ND | ND | ND | ND | 0.0 |

| Source: | | | EFFLUENT | | | | |
|--------------|---------|-------|----------|-------|-------|-------|---------|
| Date: | | | FEB | MAY | AUG | OCT | |
| Analyte | Max MDL | Units | | | | | Average |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| Dibutyltin | 0.0301 | UG/L | ND | ND | ND | ND | 0.0 |
| Monobutyltin | 0.0177 | UG/L | ND | ND | ND | ND | 0.0 |
| Tributyltin | 0.0171 | UG/L | ND | ND | ND | ND | 0.0 |

ND= not detected