# NPDES Compliance Sampling Inspection Report

PREPA - South Coast Power Plant

State Road No. 127, Guayanilla, PR 00656

NPDES Permit: PR0001147

September 14-15, 2022

**Report Prepared by:**

THUAN TRAN Digitally signed by THUAN TRAN Date: 2022.11.03 16:28:44 -04'00'

Thuan Tran, Physical Scientist

Date: _____November 03, 2022_____

**Report Approved by:**

PHILIP COCUZZA Digitally signed by PHILIP COCUZZA Date: 2022.11.07 08:50:18 -05'00'

Phil Cocuzza, Chief
Monitoring and Assessments Branch

Date: _____

## 1.0 OBJECTIVE

On September 14-15, 2022, at the request of the Caribbean Environmental Protection Division (CEPD), a National Pollutant Discharge Elimination System (NPDES) Compliance Sampling Inspection (CSI) was conducted at the Puerto Rico Electric Power Authority (PREPA) - South Coast Power Plant. The objective of the CSI was to gather information necessary to determine compliance with the requirements and limitations of their NPDES Permit; PR0001147. The NPDES Permit was effective on September 01, 2018 and will expire on August 31, 2023.

## 2.0 KEY PARTICIPANTS

Listed below are key inspection participants and contact information, grouped by organization.

U.S. Environmental Protection Agency
Thuan Tran, Lead Inspector
732-321-4455 or email: tran.thuan@epa.gov
Robert Morrell, Geologist
Jose Rivera, Clean Water Act Team Leader
Sergio Bosques, Senior Environmental Engineer

PREPA - South Coast Power Plant
See Attached "Sampling Inspections – EPA" Sign-In Sheet

## 3.0 FACILITY DESCRIPTION

### 3.1 General Information

PREPA - South Coast Power Plant is located on the south coast of Puerto Rico at State No. 127, Cedros Ward, Guayanilla, Puerto Rico. The steam electric power generating facility is categorized under Standard Industrial Classification (SIC) 4911 for Electric Services and the North American Industry Classification System (NAICS) 221112 for Fossil Fuel Electric Power Generation.

PREPA - South Coast Power Plant consists of six steam electric generating units, two (2) 410 megawatts (MW) dual fuel oil/natural gas units for a total of 820 MW, two (2) 85 MW oil-fired units (170 MW total), and two (2) 22 MW gas turbine generator power units (44 MW total).

To produce electricity, de-ionized water is converted into steam in the boiler. The pressurized superheated steam travels through the turbine spinning the blades. The electricity generated from the turbine is directed to the power grid and is redistributed to where it is needed.

As steam flows through the turbine, heat and pressure are lost. The low-heat and low-pressure steam continues to the condenser. Sea water from the Guayanilla Bay is use as non-contact cooling water. As heat is transferred to the sea water, steam condenses and

collects in the hot well. The non-contact cooling water is directed to the main canal where it discharges to the Guayanilla Bay via Outfall 001.

3.2 Process Information

Process wastewater is treated by the On-Site Wastewater Treatment Plant (WWTP). Boiler and Cooling Tower blowdown is pumped to an off-site sludge pond. The supernatant from the sludge pond is pumped into equalization (EQ) tank #2 of the On-Site WWTP. Sodium hydroxide (NaOH) is added to adjust the pH between 9.0 to 10.0 standard units (SU). Backwash from the reverse osmosis treatment system and condensate from the steam turbines are conveyed to EQ tank #1. From the EQ tanks, the process wastewater is pumped into the Nautilus Treatment System at the mixing chamber. A polymer is added to the wastewater, followed by coagulation through aeration, then flocculation of suspended solids and polymer in solution. After adequate mixing, the wastewater is conveyed into the rectangular clarifier chamber for phase separation. The effluent overflows the weir plate into the effluent trough that directs the discharge into the polishing chamber. The effluent from the polishing chamber of the Nautilus Treatment System is pumped into the media filtration tanks. The filtrate is stored in the final effluent tank where pH adjustment is performed with either sulfuric acid ($H_2SO_4$) or NaOH to pH range between 6.5 to 9.0 SU. Prior to discharge, the treated effluent is tested for pH, copper, and iron. If the quality control analytical results for the parameters are acceptable, the effluent is discharged to the main canal via Outfall 001f, otherwise, it returns to the head of the On-Site WWTP for treatment.

The backwash from the media filtration system is directed to EQ tank #1. Sludge slurry in the rectangular clarifier chamber is pumped to the off-site sludge pond. The accumulated sludge in the sludge pond is removed and disposed of once every 2 years at the municipal landfill.

3.3 Facility Self-Monitoring Information

Permit compliance samples are taken by the facility at the designated monitoring locations. Environmental Quality Laboratories, Inc. (EQ Lab.) in Bayamon, Puerto Rico provides the facility with the preserved sample containers, sample labels, and chain of custody. Samples are collected by the facility's personnel for Total Suspended Solids (TSS), Color, Turbidity, Polychlorinated Biphenyls (PCBs), Oil and Grease (O&G), and Metals. The samples are picked up by the courier and transported to EQ Lab. for analysis.

## 4.0 EPA SAMPLING/INSPECTION ACTIVITIES

4.1 Sampling Activities

Outfall 001 and Internal Outfalls 001c and 001e were discharging. A walk-through was conducted to observe and confirm the status of these outfalls as well as other outfalls on the permit.

An ISCO automatic composite sampler was programmed and set-up to take an aliquot sample every fifteen (15) minutes for twenty-four (24) hours from Internal Outfall 001c monitoring location. After the 24-hour composite sampling event, ninety-six (96) sample aliquots were collected. The composite sample was collected and analyzed for TSS. Grab sample was collected and analyzed for O&G. Grab samples were collected and analyzed from Internal Outfall 001e for TSS, O&G, and Priority Pollutants. Grab samples were collected and analyzed from Outfall 001for Color, Metals (Copper & Zinc), O&G, and PCBs.

From Internal Outfall 001c, on-site grab sample was collected and analyzed for pH. For Internal Outfall 001e, on-site grab samples were collected and analyzed for pH, Free Available Chlorine and Total Residual Chlorine. For Outfall 001, on-site grab samples were collected and analyzed for pH, Temperature, Settleable Solids (SS), Dissolved Oxygen (DO), and Total Residual Chlorine (TRC). In addition, an on-site grab sample from the Intake was collected and analyzed for Temperature.

All sample containers, preservation techniques, and holding times conformed to USEPA requirements specified in 40 CFR Part 136. All samples were packaged and shipped on ice via United Parcel Service (UPS) to the USEPA Laboratory in Edison, New Jersey for analysis. Chain-of-custody was maintained for all samples. USEPA Laboratory Analytical Data Package is attached.

Split samples were collected and given to the facility representative.

4.2 Inspection Activities

A NPDES Compliance Sampling Inspection (CSI) at PREPA - South Coast Power Plant was conducted on September 14-15, 2022. During the opening conference, inspector's credential was presented, and business card was provided. All participants signed in on the "Sampling Inspections – EPA" sign-in sheet. It was explained that the purpose of the CSI with supporting on-site activities was to determine if the facility is in compliance with their NPDES Permit, PR0001147.

The supporting on-site activities consist of sampling for the permitted parameters from Outfall 001 and Internal Outfalls 001c and 001e, reviewing and evaluating the monitoring locations, a tour of the On-Site Wastewater Treatment Plant, observing and confirming the outfalls in the permit, and reviewing the inspection findings in the 2018 NPDES Compliance Sampling Inspection report.

During the closing conference, the inspection activities were briefed, and split samples were provided to the facility representatives. On-site sample results and concerns that were discovered or observed during the inspection were communicated to the facility representatives.

4.3 Deviations and/or Environmental Conditions

Several issues from the 2018 NPDES Compliance Sampling Inspection were not addressed (Refer to Section 6.2 Inspection Findings).

During the walk-through, it was confirmed that Outfalls 002 and 003 were not discharging as well as Internal Outfalls 001b and 001g. In addition, the facility representatives indicated that there was a possibility that Internal Outfall 001f could discharge depending on the outcome of the quality control sample results for pH, copper (Cu), and iron (Fe). As a result of the elevated Fe concentration, no discharge occurred from Internal Outfall 001f.

## 5.0 ANALYTICAL RESULTS

**Outfall 001 – Guayanilla Bay**
**September 14-15, 2022**

| Parameter | Units | Permit Limit | EPA Result |
|---|---|---|---|
| Effluent Flow | MGD | 751.5 (Daily Maximum) | Was Not Provided |
| Color | Pt-Co Units | Shall not be altered by other than natural causes. | <5 |
| Copper | ug/l | Monitor Only | U J |
| Dissolved Oxygen | mg/l | Shall not contain less than 4.0 mg/l. | 6.0 |
| Oil & Grease | mg/l | The waters of Puerto Rico shall be substantially free from floating non-petroleum oil and grease as well as petroleum derived oils and grease. | U |
| pH | standard units | Minimum 7.3<br>Maximum 8.5 | 8.07 |
| Polychlorinated Biphenyls (PCBs) | ug/l | There shall be no discharge of Polychlorinated Biphenyl compounds such as those commonly used for transformer fluids. | U |
| Solids and Other Matter | | The waters of Puerto Rico shall not contain floating debris, scum, or other floating materials attributable to the discharge in amounts sufficient to be unsightly or deleterious to the existing or designated uses of the waterbody. | Scum Observed (See Photos #5 & #6 of Attachment Section) |
| Suspended, Colloidal or Settleable Solids | ml/l | Solids from wastewater source shall not cause deposition in or be deleterious to the existing or designated uses of the waterbody. | Zero |
| Temperature | °F (°C) | No more than four (4) days per year the discharge temperature will exceed 106°F (41.1°C). | **47°C** |
| Temperature, Diff. | °F (°C) | In such four events the difference between intake water temperature and the Discharge temperature shall not exceed 18°F (10°C). | 16°C |
| Zinc | ug/l | Monitor Only | U J |

**Notes:** Color and Turbidity samples exceeded holding time.
U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate
Intake Temperature: 31°C
Temperature conversion: °F = 1.8 (°C) + 32

**Internal Outfall 001c**
**September 14-15, 2022**

| Parameter | Units | Permit Limit | EPA Result |
|---|---|---|---|
| Flow | gpd | Estimate | Was Not Provided |
| Total Suspended Solids | mg/l | 30.0 – 100.0 | U |
| pH | SU | Shall always lie between 6.0 – 9.0 | 7.83 |
| Oil & Grease | mg/l | 15.0 – 20.0 | U |

**Note:** U- The analyte was not detected at or above the Reporting Limit.

**Internal Outfall 001e**
**September 14-15, 2022**

| Parameter | Units | Permit Limit | EPA Result |
|---|---|---|---|
| Flow | Gpd | Estimate | Was Not Provided |
| Free Available Chlorine | mg/l | 0.2 – 0.5 | 0.02 |
| Total Residual Chlorine | mg/l | 0.2 – 0.2 | 0.13 |
| Total Chromium | mg/l | 0.2 – 0.2 | U |
| Total Zinc | mg/l | 1.0 – 2.0 | U |
| Oil & Grease | mg/l | 15.0 – 20.0 | U |
| 126 Priority Pollutants* | ug/l | No detectable amount allowed. | U L |
| pH | SU | Shall always lie between 6.0 – 9.0 | 7.63 |
| Polychlorinated Biphenyls (PCBs) (ug/l) | ug/l | There shall be no discharge of Polychlorinated Biphenyl compounds such as those commonly used for transformer fluids. | U |
| Total Suspended Solids | mg/l | 30.0 – 100.0 | U |

**Note**: 126 Priority Pollutant* consist of Metals*, VOAs*, NVOAS*, PCBs*, and Pesticides.
U- The analyte was not detected at or above the Reporting Limit.
L- The identification of the analyte is acceptable; the reported value may be biased low.

## 6.0 FINDINGS

### 6.1 Sampling Result Findings

The EPA analytical results obtained during this inspection show the following parameter(s) as being outside of the acceptable limits:

6.1.1 According to the NPDES Permit for Outfall 001, temperature has an effluent limitation as stated, "*No more than four (4) days per year the discharge temperature will exceed 106°F (41.1°C). In such four events the difference between intake water temperature and the Discharge temperature shall not exceed 18°F (10°C).*" The analytical result for temperature was determined to be 47°Celsius.

6.2 Inspection Findings

In addition to the on-site analytical results, an inspection of the facility was conducted as discussed in Section 4.2. The following issues/concerns from the 2018 NPDES Compliance Sampling Inspection have not be addressed.

6.2.1 Prior to collecting the Polychlorinated Biphenyls (PCBs) sample, a chlorine test was conducted to determine if residual chlorine was present in the discharging effluent. The result shows chlorine present from. Since aldrin is collected as part of the PCB compounds, Under Section 9.2 – Sample Collection, Preservation, and Handling for EPA Method 608: Organochlorine Pesticides and PCBs, it states, "*if aldrin is to be determined, sodium thiosulfate must be added to the sample to remove residual chlorine."*

6.2.2 Oil & Grease (O&G) sample is collected using a sampling container. From the sampling container, the water sample is transferred into a glass bottle. This is incorrect. Samples collected for O&G should be taken in a manner that prevents biased results. Therefore, sample for O&G should be collected directly from the waste stream into the sample container. According to Section 8: Sample Collection, Preservation, and Storage in the EPA Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated N-Hexane Extractable Material (SGTHEM; Non-polar Material) by Extraction and Gravimetry, it states, "*The high probability that extractable matter may adhere to sampling equipment* (ex. bucket, tubing) *and result in measurements that are biased low precludes the collection of composite samples for determination of oil and grease. Therefore, samples must be collected as grab samples. If a composite measurement is required, individual grab samples collected at prescribed time intervals must be analyzed separately and the concentrations averaged."*

## 7.0 ATTACHMENTS

**Attachment #1**. An aerial view shows the perimeter of the power plant.

**Attachment #2**. "Sampling Inspections – EPA" sign-in for the 9/14-15/22 NPDES CSI.

**Attachment #3**. An overview map shows the various operational areas in the power plant.

**Attachment #4**. An overview map points the locations of the main and internal Outfalls.

**Attachment #5**. A water balance diagram shows where fresh and sea waters are distributed.

**Attachment #6**. Samples are transcribed onto the USEPA chain of custody for analysis.

**Attachment #7**: USEPA Analytical Results are obtained from the 9/14-15/22 NPDES CSI.

## 8.0 PHOTOGRAPHS

**Photo #1**. Samples were collected from Outfall 001 discharge canal.

**Photo #2**. Samples were collected from Internal Outfall 001c monitoring location.

**Photo #3**. Samples were collected from Internal Outfall 001e monitoring location.

**Photo #4**. A sample for temperature was taken at the Intake monitoring point.

**Photo #5**. Floating scum was observed in Outfall 001 main canal.

**Photo #6**. Solids were observed in the water column after Outfall 001 monitoring location.

# 7.0 Attachments

**Attachment #1**. An aerial view shows the perimeter of PREPA - South Coast Power Plant besides the Guayanilla Bay.

# AERIAL PHOTO
# SOUTH COAST POWER PLANT


1:5,626

**Attachment #2.** EPA & PREPA Representatives took part in the September 14-15, 2022 NPDES CSI.

GOBIERNO DE PUERTO RICO
AUTORIDAD DE ENERGÍA ELÉCTRICA

## Sampling Inspections – EPA

## South Coast Power Plant
## September 14, 2022

| Name | Position/Area | Email | Signature |
|---|---|---|---|
| Yaritza Acevedo | Program Officer | yariacevedo@prepa.com | YAC |
| Magdalena Maldonado | Supervisor Cumplimiento | magdalena.maldonado@prepa.com | |
| Glenda Martinez | Sec. Lab | glendamartinez1604@yahoo.com | |
| Thuan Tieu | EPA | Tieu.Thuan@epa.gov | |
| Miguel A. Beauchamp | PREPA / CS | m-beauchamp@prepa.com | |
| Jaime López | EPA | lopez.jaime@epa.gov | Jaime López |
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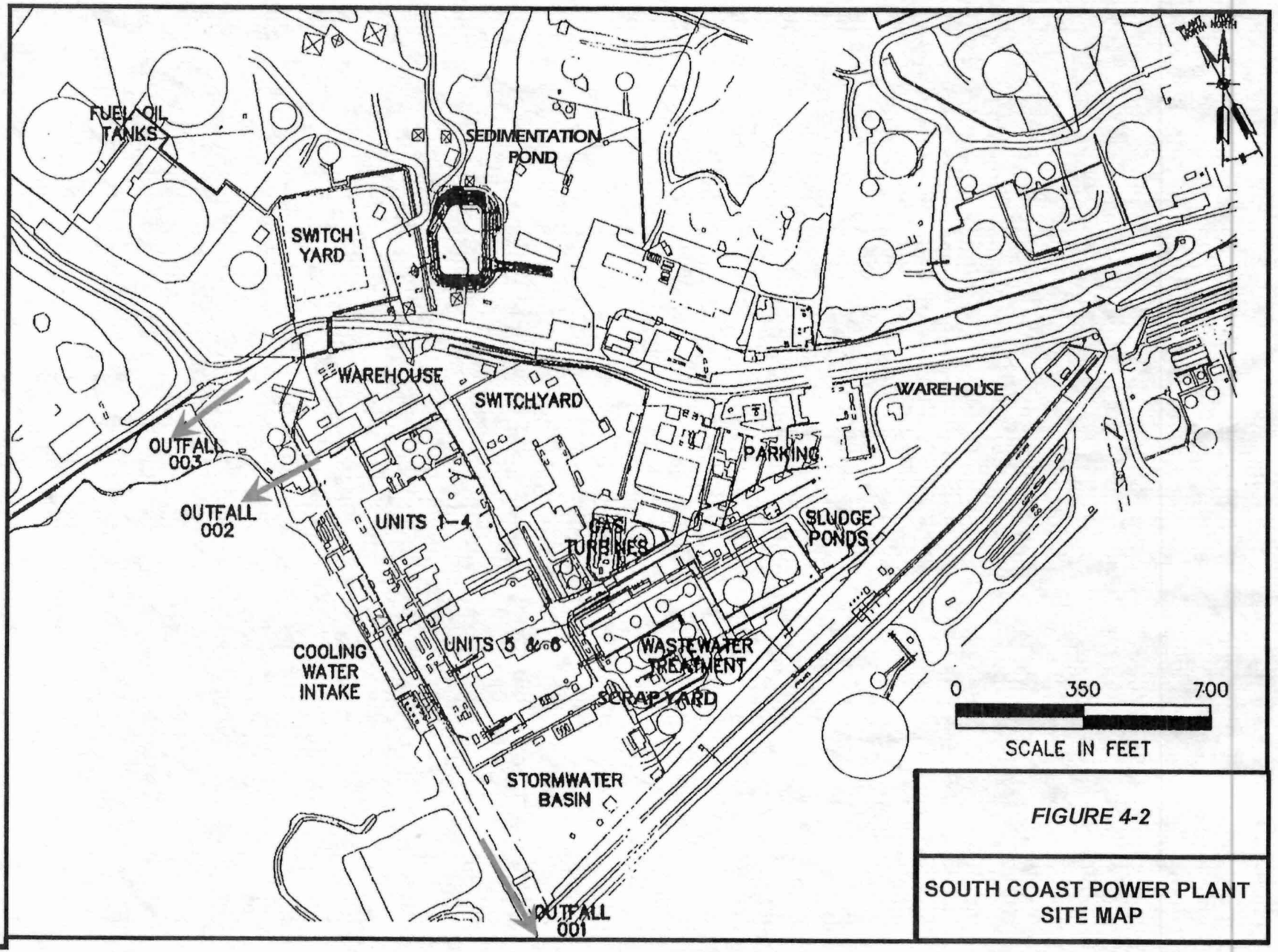
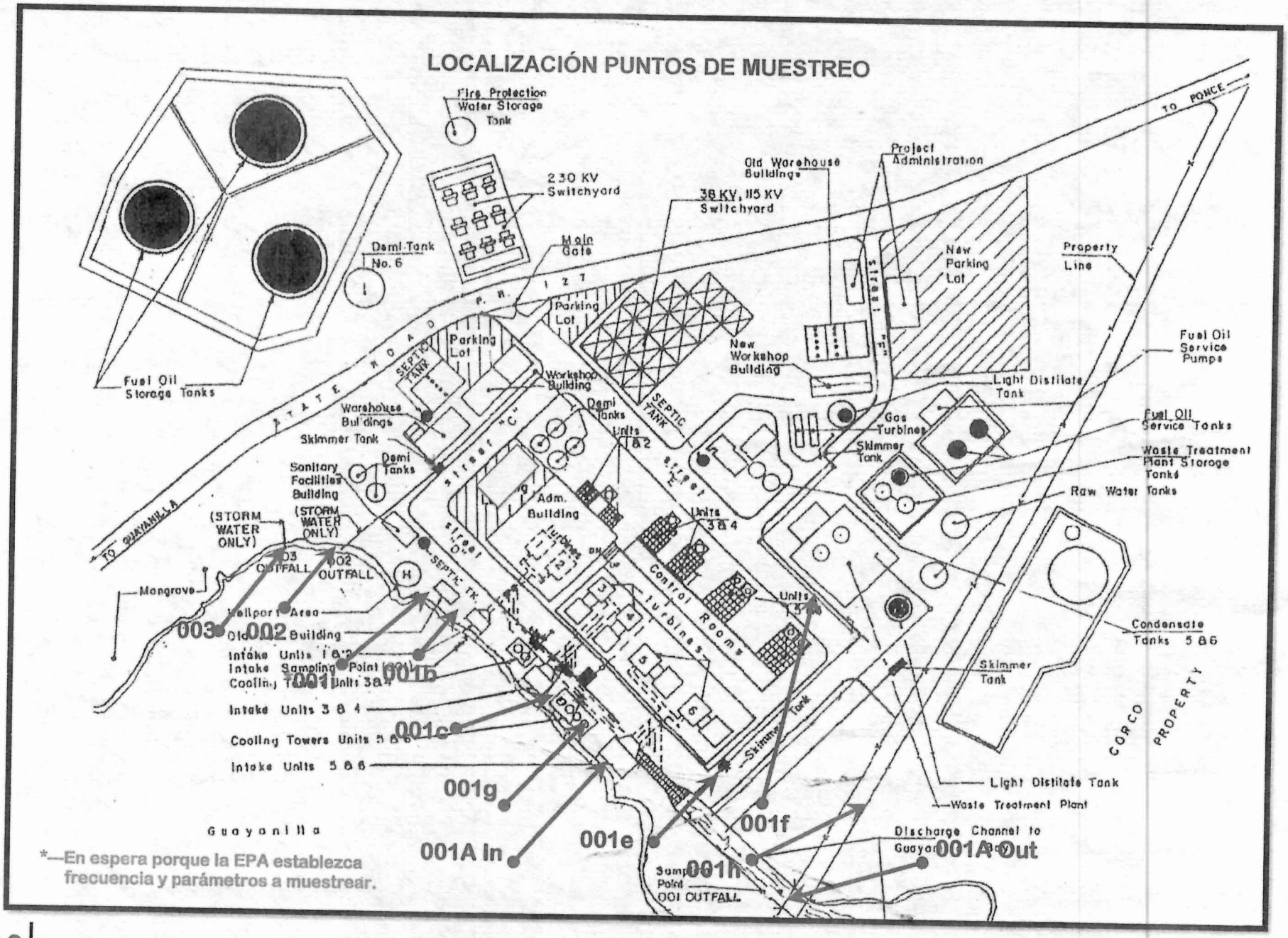
**Attachment #3.** An overview map shows the various operational areas within PREPA - South Coast Power Plant.



**Attachment #4.** An overview map shows the locations of the main and internal Outfalls within PREPA - South Coast Power Plant.





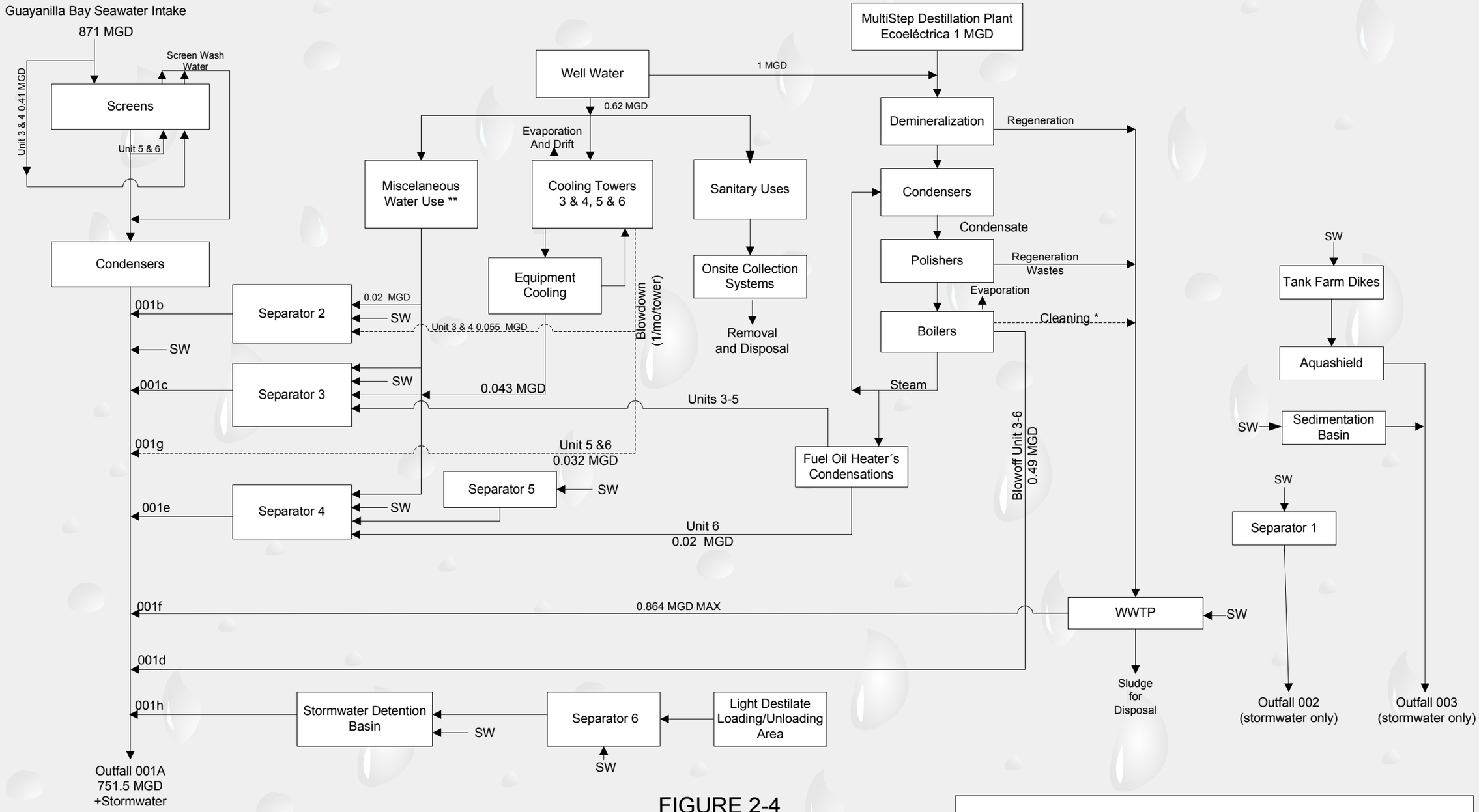



FIGURE 2-4
COSTA SUR POWER PLANT
WATER BALANCE DIAGRAM

SW = Stormwater
---- = Intermitent Discharge

* Includes:
Air Preheater Cleaning
Fan Wash
Boiler Fireside Cleaning
Boiler Chemical Cleaning

** Includes:
Washdown
Samplers
Safety Showers
Instrumentation
Equipment Drains

**Attachment #5**. Fresh and sea waters are distributed to the various operational areas at the PREPA - South Coast Power Plant.

**Attachment #6**. Samples were shipped via UPS to the USEPA Laboratory in Edison, New Jersey for analysis.

US EPA REGION 2 LABORATORY



## CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY PREPA-South Coast Power Plant

PROJECT LEADER Thuan Tran

**PROGRAM**: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

| Decision | RCRA ☐ | RCRA ENF ☐ | NPDES ☐ X | SDWA ☐ | AM ☐ | CAA ☐ | TSCA ☐ | OD ☐ | FIFRA ☐ | CRIMINAL ENF ☐ |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit Code Y206 | D210 | D307 | B304 | C215 | B224 | A305 | L306 | B253 | | |

Permit #: PR0000698

| LAB ID/ FIELD ID | # OF CONTERS | MATRIX | CHECK IF SPLIT SAMPLE | DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS, | Res CL Checked | Preservative (circle) | Collection Time (24hr clock) Begin | Collection Time (24hr clock) End | Collection Date mm/dd/yy |
|---|---|---|---|---|---|---|---|---|---|
| Outfall 001 | 4 | B | ☐ | 1, 125-ml plastic bottle: Color *** | ☐ 220915-01 | 0 | 9:44AM | | 9/15/2022 |
| | | B | ☐ | 1, 250-ml plastic bottle: Metals (Copper & Zinc) | ☐ | 02 | 9:44AM | | 9/15/2022 |
| | | B | ☐ | 1, 1-L amber glass: PCBs | ☐ | 04 | 9:44AM | | 9/15/2022 |
| | | B | ☐ | 1, 1-L clear WM jar: O&G | ☐ | 03 | 9:44AM | | 9/15/2022 |
| Internal Outfall 001e | 18 | B | ☐ | 1, 125-ml plastic bottle: Metals* | ☐ -02 | 02 | 10:22AM | | 9/15/2022 |
| | | B | ☐ | 1, 1-L clear WM jar: O&G | ☐ | 03 | 10:22AM | | 9/15/2022 |
| | | B | ☐ | 1, 250-ml plastic bottle: TSS | ☐ | 0 | 10:22AM | | 9/15/2022 |
| | | B | ☐ | 9, 40-ml glass vials: VOAs8 | ☐ | 04 | 10:22AM | | 9/15/2022 |
| | | B | ☐ | 3, 1-L amber glasses: NVOAs* | ☐ | 04 | 10:22AM | | 9/15/2022 |
| | | B | ** ☐ | 3, 1-L amber glasses: PCBs* | ☐ | 04 | 10:22AM | | 9/15/2022 |

COMMENTS & SPECIAL REQUIREMENTS:

**Note**: Internal Outfall 001e: 126 Priority Pollutants:Metals*, VOAs*, NVOAs*, PCBs* & Pesticides*.

*** Color analysis is recv'd out of Hold time. 9/16/22

9/16/22

**Preservative Added & Checked**

0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

**Matrix:**

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge
F=multiphasic
G=solvent
H=biota
I=oil
J=other

Survey Complete? Y ☐ N ☐

| | | Time | Date |
|---|---|---|---|
| | Person Assuming Responsibility for Sample(s): Thuan Trna | 5:44PM | 9/15/2022 |
| Relinquished By: Thuan Tran | Received By: | 10:30 | 9/16/22 |
| Relinquished By: | Received By: | | |
| Relinquished By: | Received By: | | |

Temp = 1.1°C on ice at 9/16/22

revised 10/25/2004

US EPA REGION 2 LABORATORY

Page 2 of 2 pages

# CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY ___ PREPA-South Coast Power Plant

PROJECT LEADER _____ Thuan Tran

**PROGRAM**: SF ☐ : SITE ID _____ OPERABLE UNIT _____ PROGRAM RESULTS CODE _____

| Decision | RCRA ☐ | RCRA ENF ☐ | NPDES ☐ | SDWA ☐ | AM ☐ | CAA ☐ | TSCA ☐ | OD ☐ | FIFRA ☐ | CRIMINAL ENF ☐ |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit Code Y206 | D210 | D307 | B304 X | C215 | B224 | A305 | L306 | B253 | | |

Permit #: _____PR0000698_____

| LAB ID/ FIELD ID | # OF CONTERS | MATRIX | CHECK IF SPLIT SAMPLE | DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS, | Res CL Checked | Preservative (circle) | Collection Time (24hr clock) Begin | Collection Time (24hr clock) End | Collection Date mm/dd/yy |
|---|---|---|---|---|---|---|---|---|---|
| Internal Outfall 001e | 3 | B | ☐ | ** 3, 1-L amber bottles: Pesticides* | ☐ | 220915-02 04 | 10:22AM | | 9/15/2022 |
| TRIP BLANK | 3 | A | ☐ | 3, 40-ml clear glass vials: VOAs | ☐ | -03 04 | 10:07AM | | 9/15/2022 |
| Outfall 001c - Grab | 3 | B | ☐ | * 3, 1-L clear WM jars: O&G | ☐ | -04 03 | 10:57AM | | 9/15/2022 |
| Outfall 001c - Comp | 1 | B | ☐ | 1, 500-ml plastic bottle: TSS | ☐ | -05 0 | 12:41P | 12:26P | 9/14-15/22 |
| | | | ☐ | | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |
| | | | ☐ | | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |
| | | | ☐ | | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |
| | | | ☐ | | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |
| | | | ☐ | * Bottle 3 of 3 is recv'd Broken (O&G) | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |
| | | | ☐ | ** Bottle 1 of 3 is recv'd Broken (PCB) (Pesticide) | ☐ | 0 1 2 3 4 5 6 7 8 9 10 | | | |

COMMENTS & SPECIAL REQUIREMENTS:

**Note:** Internal Outfall 001e: 126 Priority Pollutants :Metals*, VOAs*, NVOAs*, PCBs* & Pesticides*

continue from COC 1 of 2.

**Preservative Added & Checked**

0=ice
1=H2SO4 pH<2
2=HNO3 pH<2
3=HCl pH<2
4=Na2S2O3
5=NaOH pH>9
6=Ascorbic Acid
7=FAS
8=ZnAc
9=NaOH pH>12
10=NH4Cl

| | Person Assuming Responsibility for Sample(s): | Time | Date |
|---|---|---|---|
| | Thuan Tran | 5:44pm | 9/15/2022 |
| Relinquished By: Thuan Tran | Received By: | 10:30 | 9/16/22 |
| Relinquished By: | Received By: | | |
| Relinquished By: | Received By: | | |

**Matrix:**

A=aqueous
B=aqueous (chlorinated)
C=soil
D=sediment
E=sludge
F=multiphasic
G=solvent
H=biota
I=oil
J=other

Survey Complete? Y ☑ N ☐

revised 10/25/2004

**Attachment #7.** Analytical data for the samples collected from the 9/14-15/2022 NPDES CSI.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**Region 2 Laboratory**
**2890 Woodbridge Avenue**
**Edison , New Jersey 08837**
**732-906-6886 Phone**
**732-906-6165 Fax**

October 03, 2022

Philip Cocuzza
Monitoring & Assessment Branch
LSASD/MAB
Edison, NJ 08837

RE: PREPA South Coast Power Plant - 2209015

Enclosed are the results of analyses for samples received by the laboratory on 09/16/2022. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 2209015 and contact the laboratory.

Sincerely,

John R. Bourbon
Chief, LSASD/LB

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**Region 2 Laboratory**

**Final Report**

**Project: PREPA South Coast Power Plant - 2209015**

**Project Number: 2209015**

## Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

The "Sample Analysis Date and Time" is included in the results section for any analyte with a prescribed holding time of 72 hours or less.

Note: On the pesticide portion, only MS was extracted and analyzed because the MSD sample bottle was broken during shipment and no extra sample was available to replace.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

# Final Report

**Project: PREPA South Coast Power Plant - 2209015**

**Project Number: 2209015**

Reporting Limit(s):

The Laboratory was able to achieve the standard laboratory reporting limits, where applicable, for each analyte requested except for the following analyte(s):

NVOA GCMS

The reporting level of 5.00 ug/L was raised to 30 ug/L for the following analyte(s):
4,6-Dinitro-2-Methylphenol, Pentachlorophenol
for the following samples:
2209015-02
The reporting level of 5.00 ug/L was raised to 50 ug/L for the following analyte(s):
2,4-Dinitrophenol
for the following samples:
2209015-02

**SUMMARY REPORT FOR SAMPLES**

| Field ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| Outfall 001 | 2209015-01 | Aqueous | 09/15/2022 09:44 | 09/16/2022 10:30 |
| Internal Outfall 001e | 2209015-02 | Aqueous | 09/15/2022 10:22 | 09/16/2022 10:30 |
| TRIP BLANK | 2209015-03 | Aqueous | 09/15/2022 10:07 | 09/16/2022 10:30 |
| Outfall 001c - Grab | 2209015-04 | Aqueous | 09/15/2022 10:57 | 09/16/2022 10:30 |
| Outfall 001c - Comp. | 2209015-05 | Aqueous | 09/15/2022 12:26 | 09/16/2022 10:30 |

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**Region 2 Laboratory**

# Final Report

**Project: PREPA South Coast Power Plant - 2209015**

**Project Number: 2209015**

## SUMMARY REPORT FOR METHODS

| Analysis | Method | Certification | Matrix |
|---|---|---|---|
| 608.3 PCB Aroclors NPDES | EPA 608.3 SOP C-91 Rev 4.3 | NELAP | Aqueous |
| 608.3 Pesticides/PCBs-NPDES | EPA 608.3 SOP C-91 Rev 4.3 | NELAP | Aqueous |
| 624.1 VOA EPA-NPDES | EPA 624.1 SOP C-89 Rev 3.6 | NELAP | Aqueous |
| 625.1 SVOA NPDES | EPA 625.1 SOP C-90 Rev 3.8 | NELAP | Aqueous |
| Color | SM 2120 SOP C-47 Rev 3.6 | NELAP | Aqueous |
| Mercury | EPA 245.1 SOP C-110 Rev 2.7 | NELAP | Aqueous |
| Metals ICP TAL NPDES/DW | EPA 200.7 SOP C-109 Rev 3.6 | NELAP | Aqueous |
| Oil & Grease | EPA 1664A SOP C-126 Rev 1.6 | NELAP | Aqueous |
| Residue, Non-Filterable | SM 2540D SOP C-33 Rev 3.7 | NELAP | Aqueous |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Outfall 001** | | | **Sample ID: 2209015-01** | | | |
| **PCB Aroclors GC** | | | | | | |
| Aroclor 1016 | --- | U | 0.030 | ug/L | B209103 | |
| Aroclor 1221 | --- | U | 0.060 | ug/L | B209103 | |
| Aroclor 1232 | --- | U | 0.030 | ug/L | B209103 | |
| Aroclor 1242 | --- | U | 0.030 | ug/L | B209103 | |
| Aroclor 1248 | --- | U | 0.030 | ug/L | B209103 | |
| Aroclor 1254 | --- | U | 0.030 | ug/L | B209103 | |
| Aroclor 1260 | --- | U | 0.030 | ug/L | B209103 | |
| **GC - Sanitary** | | | | | | |
| Oil & Grease | --- | U | 6.60 | mg/L | B209121 | |
| **Metals ICP** | | | | | | |
| Copper | --- | U J | 10.0 | ug/L | B209117 | |
| Zinc | --- | U J | 20.0 | ug/L | B209117 | |
| **Sanitary** | | | | | | |
| Color | <5 | | 5.00 | Color Units | B209094 | 09/16/2022 11:45 |
| **Field ID: Internal Outfall 001e** | | | **Sample ID: 2209015-02** | | | |
| **VOA GCMS** | | | | | | |
| Chloromethane | --- | U | 5.00 | ug/L | B209108 | |
| Vinyl Chloride | --- | U | 5.00 | ug/L | B209108 | |
| Bromomethane | --- | U | 5.00 | ug/L | B209108 | |
| Chloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Trichlorofluoromethane | --- | U | 5.00 | ug/L | B209108 | |
| 1,1-Dichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| Methylene Chloride | --- | U | 5.00 | ug/L | B209108 | |
| Acrylonitrile | --- | U | 5.00 | ug/L | B209108 | |
| trans-1,2-Dichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| 1,1-Dichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Chloroform | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,1-Trichloroethane | --- | U | 5.00 | ug/L | B209108 | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Internal Outfall 001e** | | | | | **Sample ID: 2209015-02** | |
| **VOA GCMS** | | | | | | |
| Carbon Tetrachloride | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Benzene | --- | U | 5.00 | ug/L | B209108 | |
| Trichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichloropropane | --- | U | 5.00 | ug/L | B209108 | |
| Bromodichloromethane | --- | U | 5.00 | ug/L | B209108 | |
| cis-1,3-Dichloropropene | --- | U | 5.00 | ug/L | B209108 | |
| Toluene | --- | U | 5.00 | ug/L | B209108 | |
| trans-1,3-Dichloropropene | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,2-Trichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Tetrachloroethene | --- | U | 5.00 | ug/L | B209108 | |
| Dibromochloromethane | --- | U | 5.00 | ug/L | B209108 | |
| Chlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| Ethylbenzene | --- | U | 5.00 | ug/L | B209108 | |
| Bromoform | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,2,2-Tetrachloroethane | --- | U | 5.00 | ug/L | B209108 | |
| 1,3-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| 1,4-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| **NVOA GCMS** | | | | | | |
| Acenaphthene | --- | U | 4.90 | ug/L | B209096 | |
| Acenaphthylene | --- | U | 4.90 | ug/L | B209096 | |
| Anthracene | --- | U | 4.90 | ug/L | B209096 | |
| Benzo(A)Anthracene | --- | U | 4.90 | ug/L | B209096 | |
| Benzo(A)Pyrene | --- | U | 4.90 | ug/L | B209096 | |
| Benzo(B)Fluoranthene | --- | U | 4.90 | ug/L | B209096 | |
| Benzo(G,H,I)Perylene | --- | U | 4.90 | ug/L | B209096 | |
| Benzo(K)Fluoranthene | --- | U | 4.90 | ug/L | B209096 | |
| Chrysene | --- | U | 4.90 | ug/L | B209096 | |

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Internal Outfall 001e** | | | | **Sample ID: 2209015-02** | | |
| **NVOA GCMS** | | | | | | |
| Dibenzo(A,H)Anthracene | --- | U | 4.90 | ug/L | B209096 | |
| Fluoranthene | --- | U | 4.90 | ug/L | B209096 | |
| Fluorene | --- | U | 4.90 | ug/L | B209096 | |
| Indeno(1,2,3-Cd)Pyrene | --- | U | 4.90 | ug/L | B209096 | |
| Naphthalene | --- | U | 4.90 | ug/L | B209096 | |
| Phenanthrene | --- | U | 4.90 | ug/L | B209096 | |
| 1,2,4-Trichlorobenzene | --- | U | 4.90 | ug/L | B209096 | |
| 2,4,6-Trichlorophenol | --- | U L | 4.90 | ug/L | B209096 | |
| 2,4-Dichlorophenol | --- | U L | 4.90 | ug/L | B209096 | |
| 2,4-Dimethylphenol | --- | U L | 4.90 | ug/L | B209096 | |
| 2,4-Dinitrotoluene | --- | U | 4.90 | ug/L | B209096 | |
| 2,6-Dinitrotoluene | --- | U | 4.90 | ug/L | B209096 | |
| 2,4-Dinitrophenol | --- | U | 49.0 | ug/L | B209096 | |
| 2-Chloronaphthalene | --- | U | 4.90 | ug/L | B209096 | |
| 2-Chlorophenol | --- | U L | 4.90 | ug/L | B209096 | |
| 2-Nitrophenol | --- | U L | 4.90 | ug/L | B209096 | |
| 3,3'- Dichlorobenzidine | --- | U | 4.90 | ug/L | B209096 | |
| 4,6-Dinitro-2-Methylphenol | --- | U | 29.4 | ug/L | B209096 | |
| 4-Bromophenyl-Phenylether | --- | U | 4.90 | ug/L | B209096 | |
| 4-Chloro-3-Methylphenol | --- | U L | 4.90 | ug/L | B209096 | |
| 4-Chlorophenyl-Phenylether | --- | U | 4.90 | ug/L | B209096 | |
| 4-Nitrophenol | --- | U | 4.90 | ug/L | B209096 | |
| Bis(-2-Chloroethoxy)Methane | --- | U | 4.90 | ug/L | B209096 | |
| Bis(2-Chloroethyl)Ether | --- | U | 4.90 | ug/L | B209096 | |
| Bis(2-Chloroisopropyl)Ether | --- | U | 4.90 | ug/L | B209096 | |
| Bis(2-Ethylhexyl)Phthalate | --- | U | 4.90 | ug/L | B209096 | |
| Butylbenzylphthalate | --- | U | 4.90 | ug/L | B209096 | |
| Azobenzene | --- | U | 4.90 | ug/L | B209096 | |
| Diethylphthalate | --- | U | 4.90 | ug/L | B209096 | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Internal Outfall 001e** | | | | **Sample ID: 2209015-02** | | |
| **NVOA GCMS** | | | | | | |
| Dimethyl Phthalate | --- | U L | 4.90 | ug/L | B209096 | |
| Di-N-Butyl Phthalate | --- | U | 4.90 | ug/L | B209096 | |
| Di-N-Octyl Phthalate | --- | U | 4.90 | ug/L | B209096 | |
| Hexachlorobenzene | --- | U | 4.90 | ug/L | B209096 | |
| Hexachlorobutadiene | --- | U | 4.90 | ug/L | B209096 | |
| Hexachlorocyclopentadiene | --- | U J | 4.90 | ug/L | B209096 | |
| Hexachloroethane | --- | U | 4.90 | ug/L | B209096 | |
| Isophorone | --- | U | 4.90 | ug/L | B209096 | |
| Nitrobenzene | --- | U | 4.90 | ug/L | B209096 | |
| N-Nitrosodimethylamine | --- | U | 4.90 | ug/L | B209096 | |
| N-Nitroso-Di-N-Propylamine | --- | U | 4.90 | ug/L | B209096 | |
| N-Nitrosodiphenylamine | --- | U | 4.90 | ug/L | B209096 | |
| Pentachlorophenol | --- | U | 29.4 | ug/L | B209096 | |
| Phenol | --- | U L | 4.90 | ug/L | B209096 | |
| Pyrene | --- | U | 4.90 | ug/L | B209096 | |
| **Pest/PCBs GC** | | | | | | |
| alpha-BHC | --- | U | 0.003 | ug/L | B209103 | |
| gamma-BHC (Lindane) | --- | U | 0.003 | ug/L | B209103 | |
| beta-BHC | --- | U | 0.003 | ug/L | B209103 | |
| delta-BHC | --- | U | 0.003 | ug/L | B209103 | |
| Heptachlor | --- | U | 0.003 | ug/L | B209103 | |
| Aldrin | --- | U | 0.003 | ug/L | B209103 | |
| Heptachlor epoxide | --- | U | 0.003 | ug/L | B209103 | |
| Endosulfan I | --- | U | 0.003 | ug/L | B209103 | |
| 4,4'-DDE | --- | U | 0.005 | ug/L | B209103 | |
| Dieldrin | --- | U | 0.005 | ug/L | B209103 | |
| Endrin | --- | U | 0.005 | ug/L | B209103 | |
| 4,4'-DDD | --- | U | 0.005 | ug/L | B209103 | |
| Endosulfan II | --- | U | 0.005 | ug/L | B209103 | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Internal Outfall 001e** | | | | **Sample ID: 2209015-02** | | |
| **Pest/PCBs GC** | | | | | | |
| 4,4'-DDT | --- | U | 0.005 | ug/L | B209103 | |
| Endrin aldehyde | --- | U | 0.005 | ug/L | B209103 | |
| Endosulfan sulfate | --- | U | 0.005 | ug/L | B209103 | |
| Toxaphene | --- | U | 0.195 | ug/L | B209103 | |
| Chlordane | --- | U | 0.065 | ug/L | B209103 | |
| Aroclor 1016 | --- | U | 0.033 | ug/L | B209103 | |
| Aroclor 1221 | --- | U | 0.065 | ug/L | B209103 | |
| Aroclor 1232 | --- | U | 0.033 | ug/L | B209103 | |
| Aroclor 1242 | --- | U | 0.033 | ug/L | B209103 | |
| Aroclor 1248 | --- | U | 0.033 | ug/L | B209103 | |
| Aroclor 1254 | --- | U | 0.033 | ug/L | B209103 | |
| Aroclor 1260 | --- | U | 0.033 | ug/L | B209103 | |
| **GC - Sanitary** | | | | | | |
| Oil & Grease | --- | U | 6.30 | mg/L | B209121 | |
| **Metals ICP** | | | | | | |
| Antimony | --- | U | 20.0 | ug/L | B209117 | |
| Arsenic | --- | U | 8.00 | ug/L | B209117 | |
| Beryllium | --- | U | 3.00 | ug/L | B209117 | |
| Cadmium | --- | U | 3.00 | ug/L | B209117 | |
| Chromium | --- | U | 5.00 | ug/L | B209117 | |
| Copper | --- | U | 10.0 | ug/L | B209117 | |
| Lead | --- | U | 8.00 | ug/L | B209117 | |
| Nickel | --- | U | 20.0 | ug/L | B209117 | |
| Selenium | --- | U | 20.0 | ug/L | B209117 | |
| Silver | --- | U | 5.00 | ug/L | B209117 | |
| Thallium | --- | U | 20.0 | ug/L | B209117 | |
| Zinc | --- | U | 20.0 | ug/L | B209117 | |

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: Internal Outfall 001e** | | | | **Sample ID: 2209015-02** | | |
| **Mercury CVAA** | | | | | | |
| Mercury | --- | U | 0.050 | ug/L | B209126 | |
| **Sanitary** | | | | | | |
| Total Suspended Solids | --- | U | 10.0 | mg/L | B209115 | |
| **Field ID: TRIP BLANK** | | | | **Sample ID: 2209015-03** | | |
| **VOA GCMS** | | | | | | |
| Chloromethane | --- | U | 5.00 | ug/L | B209108 | |
| Vinyl Chloride | --- | U | 5.00 | ug/L | B209108 | |
| Bromomethane | --- | U | 5.00 | ug/L | B209108 | |
| Chloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Trichlorofluoromethane | --- | U | 5.00 | ug/L | B209108 | |
| 1,1-Dichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| Methylene Chloride | --- | U | 5.00 | ug/L | B209108 | |
| Acrylonitrile | --- | U | 5.00 | ug/L | B209108 | |
| trans-1,2-Dichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| 1,1-Dichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Chloroform | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,1-Trichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Carbon Tetrachloride | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Benzene | --- | U | 5.00 | ug/L | B209108 | |
| Trichloroethene | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichloropropane | --- | U | 5.00 | ug/L | B209108 | |
| Bromodichloromethane | --- | U | 5.00 | ug/L | B209108 | |
| cis-1,3-Dichloropropene | --- | U | 5.00 | ug/L | B209108 | |
| Toluene | --- | U | 5.00 | ug/L | B209108 | |
| trans-1,3-Dichloropropene | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,2-Trichloroethane | --- | U | 5.00 | ug/L | B209108 | |
| Tetrachloroethene | --- | U | 5.00 | ug/L | B209108 | |
| Dibromochloromethane | --- | U | 5.00 | ug/L | B209108 | |

# Final Report

**Project: PREPA South Coast Power Plant - 2209015**

**Project Number: 2209015**

| Analyte | Result | Qualifier | Reporting Limit | Units | Batch | Date and Time of Analysis* |
|---|---|---|---|---|---|---|
| **Field ID: TRIP BLANK** | | | | **Sample ID: 2209015-03** | | |
| **VOA GCMS** | | | | | | |
| Chlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| Ethylbenzene | --- | U | 5.00 | ug/L | B209108 | |
| Bromoform | --- | U | 5.00 | ug/L | B209108 | |
| 1,1,2,2-Tetrachloroethane | --- | U | 5.00 | ug/L | B209108 | |
| 1,3-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| 1,4-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| 1,2-Dichlorobenzene | --- | U | 5.00 | ug/L | B209108 | |
| **Field ID: Outfall 001c - Grab** | | | | **Sample ID: 2209015-04** | | |
| **GC - Sanitary** | | | | | | |
| Oil & Grease | --- | U | 6.30 | mg/L | B209121 | |
| **Field ID: Outfall 001c - Comp.** | | | | **Sample ID: 2209015-05** | | |
| **Sanitary** | | | | | | |
| Total Suspended Solids | --- | U | 10.0 | mg/L | B209115 | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## VOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209108** | | | | | | | | | |
| **Blank (B209108-BLK1)** | | | | | | | | | |
| Chloromethane | --- U | 5.00 | ug/L | | | | | | |
| Vinyl Chloride | --- U | 5.00 | ug/L | | | | | | |
| Bromomethane | --- U | 5.00 | ug/L | | | | | | |
| Chloroethane | --- U | 5.00 | ug/L | | | | | | |
| Trichlorofluoromethane | --- U | 5.00 | ug/L | | | | | | |
| 1,1-Dichloroethene | --- U | 5.00 | ug/L | | | | | | |
| Methylene Chloride | --- U | 5.00 | ug/L | | | | | | |
| Acrylonitrile | --- U | 5.00 | ug/L | | | | | | |
| trans-1,2-Dichloroethene | --- U | 5.00 | ug/L | | | | | | |
| 1,1-Dichloroethane | --- U | 5.00 | ug/L | | | | | | |
| Chloroform | --- U | 5.00 | ug/L | | | | | | |
| 1,1,1-Trichloroethane | --- U | 5.00 | ug/L | | | | | | |
| Carbon Tetrachloride | --- U | 5.00 | ug/L | | | | | | |
| 1,2-Dichloroethane | --- U | 5.00 | ug/L | | | | | | |
| Benzene | --- U | 5.00 | ug/L | | | | | | |
| Trichloroethene | --- U | 5.00 | ug/L | | | | | | |
| 1,2-Dichloropropane | --- U | 5.00 | ug/L | | | | | | |
| Bromodichloromethane | --- U | 5.00 | ug/L | | | | | | |
| cis-1,3-Dichloropropene | --- U | 5.00 | ug/L | | | | | | |
| Toluene | --- U | 5.00 | ug/L | | | | | | |
| trans-1,3-Dichloropropene | --- U | 5.00 | ug/L | | | | | | |
| 1,1,2-Trichloroethane | --- U | 5.00 | ug/L | | | | | | |
| Tetrachloroethene | --- U | 5.00 | ug/L | | | | | | |
| Dibromochloromethane | --- U | 5.00 | ug/L | | | | | | |
| Chlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| Ethylbenzene | --- U | 5.00 | ug/L | | | | | | |
| Bromoform | --- U | 5.00 | ug/L | | | | | | |
| 1,1,2,2-Tetrachloroethane | --- U | 5.00 | ug/L | | | | | | |
| 1,3-Dichlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| 1,4-Dichlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| 1,2-Dichlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| *Surrogate: 1,4-Difluorobenzene* | *ND* | | ug/L | *100.0* | | *98.4* | *60-140* | | |
| *Surrogate: 2-Bromo-1-Chloropropane* | *102* | | ug/L | *100.0* | | *102* | *60-140* | | |
| *Surrogate: 1,4-Dichlorobutane* | *ND* | | ug/L | *100.0* | | *98.4* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## VOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209108** | | | | | | | | | |
| **LCS (B209108-BS1)** | | | | | | | | | |
| Chloromethane | 44.5 | | ug/L | 50.00 | | 89.1 | 19-205 | | |
| Vinyl Chloride | 38.7 | | ug/L | 50.00 | | 77.5 | 5-195 | | |
| Bromomethane | 54.4 | | ug/L | 50.00 | | 109 | 15-185 | | |
| Chloroethane | 43.6 | | ug/L | 50.00 | | 87.3 | 40-160 | | |
| Trichlorofluoromethane | 42.6 | | ug/L | 50.00 | | 85.2 | 50-150 | | |
| 1,1-Dichloroethene | 50.8 | | ug/L | 50.00 | | 102 | 50-150 | | |
| Methylene Chloride | 47.4 | | ug/L | 50.00 | | 94.7 | 60-140 | | |
| Acrylonitrile | 44.0 | | ug/L | 50.00 | | 87.9 | 60-140 | | |
| trans-1,2-Dichloroethene | 49.3 | | ug/L | 50.00 | | 98.6 | 70-130 | | |
| 1,1-Dichloroethane | 46.3 | | ug/L | 50.00 | | 92.5 | 70-130 | | |
| Chloroform | 45.2 | | ug/L | 50.00 | | 90.3 | 70-135 | | |
| 1,1,1-Trichloroethane | 44.2 | | ug/L | 50.00 | | 88.4 | 70-130 | | |
| Carbon Tetrachloride | 43.6 | | ug/L | 50.00 | | 87.2 | 70-130 | | |
| 1,2-Dichloroethane | 43.8 | | ug/L | 50.00 | | 87.7 | 70-130 | | |
| Benzene | 45.1 | | ug/L | 50.00 | | 90.3 | 65-135 | | |
| Trichloroethene | 44.1 | | ug/L | 50.00 | | 88.2 | 65-135 | | |
| 1,2-Dichloropropane | 43.8 | | ug/L | 50.00 | | 87.5 | 35-165 | | |
| Bromodichloromethane | 42.5 | | ug/L | 50.00 | | 84.9 | 65-135 | | |
| cis-1,3-Dichloropropene | 44.4 | | ug/L | 50.00 | | 88.9 | 25-175 | | |
| Toluene | 42.8 | | ug/L | 50.00 | | 85.5 | 70-130 | | |
| trans-1,3-Dichloropropene | 46.7 | | ug/L | 50.00 | | 93.4 | 50-150 | | |
| 1,1,2-Trichloroethane | 42.0 | | ug/L | 50.00 | | 84.1 | 70-130 | | |
| Tetrachloroethene | 42.1 | | ug/L | 50.00 | | 84.2 | 70-130 | | |
| Dibromochloromethane | 43.5 | | ug/L | 50.00 | | 87.0 | 70-135 | | |
| Chlorobenzene | 43.6 | | ug/L | 50.00 | | 87.2 | 65-135 | | |
| Ethylbenzene | 43.7 | | ug/L | 50.00 | | 87.4 | 60-140 | | |
| Bromoform | 41.2 | | ug/L | 50.00 | | 82.4 | 70-130 | | |
| 1,1,2,2-Tetrachloroethane | 41.8 | | ug/L | 50.00 | | 83.6 | 60-140 | | |
| 1,3-Dichlorobenzene | 44.4 | | ug/L | 50.00 | | 88.8 | 70-130 | | |
| 1,4-Dichlorobenzene | 42.4 | | ug/L | 50.00 | | 84.8 | 65-135 | | |
| 1,2-Dichlorobenzene | 43.7 | | ug/L | 50.00 | | 87.5 | 65-135 | | |
| *Surrogate: 1,4-Difluorobenzene* | *100* | | ug/L | *100.0* | | *100* | *60-140* | | |
| *Surrogate: 2-Bromo-1-Chloropropane* | *101* | | ug/L | *100.0* | | *101* | *60-140* | | |
| *Surrogate: 1,4-Dichlorobutane* | *98.8* | | ug/L | *100.0* | | *98.8* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## VOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209108** | | | | | | | | | |
| **LCS Dup (B209108-BSD1)** | | | | | | | | | |
| Chloromethane | 51.5 | | ug/L | 50.00 | | 103 | 19-205 | 14.5 | 20 |
| Vinyl Chloride | 45.5 | | ug/L | 50.00 | | 91.0 | 5-195 | 16.1 | 20 |
| Bromomethane | 60.8 | | ug/L | 50.00 | | 122 | 15-185 | 11.1 | 20 |
| Chloroethane | 49.2 | | ug/L | 50.00 | | 98.4 | 40-160 | 12.0 | 20 |
| Trichlorofluoromethane | 48.6 | | ug/L | 50.00 | | 97.2 | 50-150 | 13.2 | 20 |
| 1,1-Dichloroethene | 56.2 | | ug/L | 50.00 | | 112 | 50-150 | 10.2 | 20 |
| Methylene Chloride | 53.3 | | ug/L | 50.00 | | 107 | 60-140 | 11.8 | 20 |
| Acrylonitrile | 52.1 | | ug/L | 50.00 | | 104 | 60-140 | 17.0 | 20 |
| trans-1,2-Dichloroethene | 56.5 | | ug/L | 50.00 | | 113 | 70-130 | 13.7 | 20 |
| 1,1-Dichloroethane | 52.3 | | ug/L | 50.00 | | 105 | 70-130 | 12.2 | 20 |
| Chloroform | 51.1 | | ug/L | 50.00 | | 102 | 70-135 | 12.3 | 20 |
| 1,1,1-Trichloroethane | 52.0 | | ug/L | 50.00 | | 104 | 70-130 | 16.2 | 20 |
| Carbon Tetrachloride | 50.3 | | ug/L | 50.00 | | 101 | 70-130 | 14.2 | 20 |
| 1,2-Dichloroethane | 50.4 | | ug/L | 50.00 | | 101 | 70-130 | 13.9 | 20 |
| Benzene | 50.0 | | ug/L | 50.00 | | 100 | 65-135 | 10.3 | 20 |
| Trichloroethene | 48.5 | | ug/L | 50.00 | | 97.1 | 65-135 | 9.61 | 20 |
| 1,2-Dichloropropane | 49.4 | | ug/L | 50.00 | | 98.7 | 35-165 | 12.0 | 20 |
| Bromodichloromethane | 47.6 | | ug/L | 50.00 | | 95.2 | 65-135 | 11.4 | 20 |
| cis-1,3-Dichloropropene | 49.4 | | ug/L | 50.00 | | 98.7 | 25-175 | 10.5 | 20 |
| Toluene | 49.1 | | ug/L | 50.00 | | 98.2 | 70-130 | 13.8 | 20 |
| trans-1,3-Dichloropropene | 52.2 | | ug/L | 50.00 | | 104 | 50-150 | 11.0 | 20 |
| 1,1,2-Trichloroethane | 47.1 | | ug/L | 50.00 | | 94.1 | 70-130 | 11.3 | 20 |
| Tetrachloroethene | 47.0 | | ug/L | 50.00 | | 93.9 | 70-130 | 11.0 | 20 |
| Dibromochloromethane | 50.4 | | ug/L | 50.00 | | 101 | 70-135 | 14.6 | 20 |
| Chlorobenzene | 49.4 | | ug/L | 50.00 | | 98.8 | 65-135 | 12.4 | 20 |
| Ethylbenzene | 49.4 | | ug/L | 50.00 | | 98.8 | 60-140 | 12.2 | 20 |
| Bromoform | 47.9 | | ug/L | 50.00 | | 95.7 | 70-130 | 15.0 | 20 |
| 1,1,2,2-Tetrachloroethane | 48.2 | | ug/L | 50.00 | | 96.3 | 60-140 | 14.2 | 20 |
| 1,3-Dichlorobenzene | 49.7 | | ug/L | 50.00 | | 99.3 | 70-130 | 11.2 | 20 |
| 1,4-Dichlorobenzene | 48.9 | | ug/L | 50.00 | | 97.8 | 65-135 | 14.3 | 20 |
| 1,2-Dichlorobenzene | 49.0 | | ug/L | 50.00 | | 98.0 | 65-135 | 11.4 | 20 |
| *Surrogate: 1,4-Difluorobenzene* | *98.2* | | ug/L | *100.0* | | *98.2* | *60-140* | | |
| *Surrogate: 2-Bromo-1-Chloropropane* | *101* | | ug/L | *100.0* | | *101* | *60-140* | | |
| *Surrogate: 1,4-Dichlorobutane* | *100* | | ug/L | *100.0* | | *100* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## VOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209108** | | | | | | | | | |
| **Matrix Spike (B209108-MS1)** | **Source: 2209015-02** | | | | | | | | |
| Chloromethane | 47.1 | 5.00 | ug/L | 50.00 | ND | 94.3 | 19-273 | | |
| Vinyl Chloride | 41.3 | 5.00 | ug/L | 50.00 | ND | 82.6 | 49-251 | | |
| Bromomethane | 48.3 | 5.00 | ug/L | 50.00 | ND | 96.6 | 21-242 | | |
| Chloroethane | 49.8 | 5.00 | ug/L | 50.00 | ND | 99.7 | 14-230 | | |
| Trichlorofluoromethane | 47.2 | 5.00 | ug/L | 50.00 | ND | 94.5 | 17-181 | | |
| 1,1-Dichloroethene | 49.4 | 5.00 | ug/L | 50.00 | ND | 98.9 | 52-234 | | |
| Methylene Chloride | 47.2 | 5.00 | ug/L | 50.00 | ND | 94.4 | 69-221 | | |
| Acrylonitrile | 45.6 | 5.00 | ug/L | 50.00 | ND | 91.2 | 40-160 | | |
| trans-1,2-Dichloroethene | 48.8 | 5.00 | ug/L | 50.00 | ND | 97.7 | 54-156 | | |
| 1,1-Dichloroethane | 47.1 | 5.00 | ug/L | 50.00 | ND | 94.1 | 59-155 | | |
| Chloroform | 46.1 | 5.00 | ug/L | 50.00 | ND | 92.2 | 51-138 | | |
| 1,1,1-Trichloroethane | 45.6 | 5.00 | ug/L | 50.00 | ND | 91.2 | 52-162 | | |
| Carbon Tetrachloride | 44.6 | 5.00 | ug/L | 50.00 | ND | 89.2 | 70-140 | | |
| 1,2-Dichloroethane | 44.6 | 5.00 | ug/L | 50.00 | ND | 89.2 | 49-155 | | |
| Benzene | 44.2 | 5.00 | ug/L | 50.00 | ND | 88.3 | 37-151 | | |
| Trichloroethene | 43.8 | 5.00 | ug/L | 50.00 | ND | 87.6 | 70-157 | | |
| 1,2-Dichloropropane | 42.4 | 5.00 | ug/L | 50.00 | ND | 84.8 | 74-210 | | |
| Bromodichloromethane | 40.8 | 5.00 | ug/L | 50.00 | ND | 81.7 | 35-155 | | |
| cis-1,3-Dichloropropene | 43.1 | 5.00 | ug/L | 50.00 | ND | 86.2 | 80-227 | | |
| Toluene | 44.2 | 5.00 | ug/L | 50.00 | ND | 88.5 | 47-150 | | |
| trans-1,3-Dichloropropene | 43.3 | 5.00 | ug/L | 50.00 | ND | 86.6 | 17-183 | | |
| 1,1,2-Trichloroethane | 41.9 | 5.00 | ug/L | 50.00 | ND | 83.8 | 52-150 | | |
| Tetrachloroethene | 44.4 | 5.00 | ug/L | 50.00 | ND | 88.8 | 64-148 | | |
| Dibromochloromethane | 42.0 | 5.00 | ug/L | 50.00 | ND | 83.9 | 53-149 | | |
| Chlorobenzene | 43.3 | 5.00 | ug/L | 50.00 | ND | 86.6 | 37-160 | | |
| Ethylbenzene | 43.8 | 5.00 | ug/L | 50.00 | ND | 87.5 | 37-162 | | |
| Bromoform | 40.8 | 5.00 | ug/L | 50.00 | ND | 81.6 | 45-169 | | |
| 1,1,2,2-Tetrachloroethane | 41.8 | 5.00 | ug/L | 50.00 | ND | 83.5 | 46-157 | | |
| 1,3-Dichlorobenzene | 43.0 | 5.00 | ug/L | 50.00 | ND | 86.1 | 59-156 | | |
| 1,4-Dichlorobenzene | 42.8 | 5.00 | ug/L | 50.00 | ND | 85.5 | 18-190 | | |
| 1,2-Dichlorobenzene | 42.4 | 5.00 | ug/L | 50.00 | ND | 84.9 | 18-190 | | |
| *Surrogate: 1,4-Difluorobenzene* | *98.3* | | ug/L | *100.0* | | *98.3* | *60-140* | | |
| *Surrogate: 2-Bromo-1-Chloropropane* | *103* | | ug/L | *100.0* | | *103* | *60-140* | | |
| *Surrogate: 1,4-Dichlorobutane* | *98.2* | | ug/L | *100.0* | | *98.2* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## VOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209108** | | | | | | | | | |
| **Matrix Spike Dup (B209108-MSD1)** | **Source: 2209015-02** | | | | | | | | |
| Chloromethane | 49.4 | 5.00 | ug/L | 50.00 | ND | 98.9 | 19-273 | 4.76 | 28 |
| Vinyl Chloride | 44.3 | 5.00 | ug/L | 50.00 | ND | 88.6 | 49-251 | 7.01 | 28 |
| Bromomethane | 50.6 | 5.00 | ug/L | 50.00 | ND | 101 | 21-242 | 4.63 | 28 |
| Chloroethane | 52.6 | 5.00 | ug/L | 50.00 | ND | 105 | 14-230 | 5.27 | 28 |
| Trichlorofluoromethane | 50.1 | 5.00 | ug/L | 50.00 | ND | 100 | 17-181 | 5.91 | 28 |
| 1,1-Dichloroethene | 53.8 | 5.00 | ug/L | 50.00 | ND | 108 | 52-234 | 8.33 | 28 |
| Methylene Chloride | 50.6 | 5.00 | ug/L | 50.00 | ND | 101 | 69-221 | 6.90 | 28 |
| Acrylonitrile | 50.7 | 5.00 | ug/L | 50.00 | ND | 101 | 40-160 | 10.6 | 28 |
| trans-1,2-Dichloroethene | 51.1 | 5.00 | ug/L | 50.00 | ND | 102 | 54-156 | 4.46 | 28 |
| 1,1-Dichloroethane | 49.0 | 5.00 | ug/L | 50.00 | ND | 98.1 | 59-155 | 4.08 | 28 |
| Chloroform | 48.9 | 5.00 | ug/L | 50.00 | ND | 97.8 | 51-138 | 5.85 | 28 |
| 1,1,1-Trichloroethane | 49.1 | 5.00 | ug/L | 50.00 | ND | 98.1 | 52-162 | 7.33 | 28 |
| Carbon Tetrachloride | 48.7 | 5.00 | ug/L | 50.00 | ND | 97.4 | 70-140 | 8.79 | 28 |
| 1,2-Dichloroethane | 48.0 | 5.00 | ug/L | 50.00 | ND | 96.0 | 49-155 | 7.37 | 28 |
| Benzene | 46.7 | 5.00 | ug/L | 50.00 | ND | 93.4 | 37-151 | 5.53 | 28 |
| Trichloroethene | 47.4 | 5.00 | ug/L | 50.00 | ND | 94.8 | 70-157 | 7.87 | 28 |
| 1,2-Dichloropropane | 46.5 | 5.00 | ug/L | 50.00 | ND | 93.0 | 74-210 | 9.25 | 28 |
| Bromodichloromethane | 43.8 | 5.00 | ug/L | 50.00 | ND | 87.5 | 35-155 | 6.90 | 28 |
| cis-1,3-Dichloropropene | 42.2 | 5.00 | ug/L | 50.00 | ND | 84.4 | 80-227 | 2.13 | 28 |
| Toluene | 47.6 | 5.00 | ug/L | 50.00 | ND | 95.1 | 47-150 | 7.23 | 28 |
| trans-1,3-Dichloropropene | 45.0 | 5.00 | ug/L | 50.00 | ND | 89.9 | 17-183 | 3.69 | 28 |
| 1,1,2-Trichloroethane | 45.5 | 5.00 | ug/L | 50.00 | ND | 91.1 | 52-150 | 8.26 | 28 |
| Tetrachloroethene | 47.3 | 5.00 | ug/L | 50.00 | ND | 94.7 | 64-148 | 6.45 | 28 |
| Dibromochloromethane | 45.4 | 5.00 | ug/L | 50.00 | ND | 90.8 | 53-149 | 7.88 | 28 |
| Chlorobenzene | 48.7 | 5.00 | ug/L | 50.00 | ND | 97.4 | 37-160 | 11.7 | 28 |
| Ethylbenzene | 48.3 | 5.00 | ug/L | 50.00 | ND | 96.5 | 37-162 | 9.78 | 28 |
| Bromoform | 45.2 | 5.00 | ug/L | 50.00 | ND | 90.3 | 45-169 | 10.1 | 28 |
| 1,1,2,2-Tetrachloroethane | 45.8 | 5.00 | ug/L | 50.00 | ND | 91.7 | 46-157 | 9.34 | 28 |
| 1,3-Dichlorobenzene | 47.6 | 5.00 | ug/L | 50.00 | ND | 95.1 | 59-156 | 9.96 | 28 |
| 1,4-Dichlorobenzene | 46.6 | 5.00 | ug/L | 50.00 | ND | 93.2 | 18-190 | 8.55 | 28 |
| 1,2-Dichlorobenzene | 46.3 | 5.00 | ug/L | 50.00 | ND | 92.6 | 18-190 | 8.72 | 28 |
| *Surrogate: 1,4-Difluorobenzene* | *95.9* | | ug/L | *100.0* | | *95.9* | *60-140* | | |
| *Surrogate: 2-Bromo-1-Chloropropane* | *102* | | ug/L | *100.0* | | *102* | *60-140* | | |
| *Surrogate: 1,4-Dichlorobutane* | *101* | | ug/L | *100.0* | | *101* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Blank (B209096-BLK1)** | | | | | | | | | |
| Acenaphthene | --- U | 5.00 | ug/L | | | | | | |
| Acenaphthylene | --- U | 5.00 | ug/L | | | | | | |
| Anthracene | --- U | 5.00 | ug/L | | | | | | |
| Benzo(A)Anthracene | --- U | 5.00 | ug/L | | | | | | |
| Benzo(A)Pyrene | --- U | 5.00 | ug/L | | | | | | |
| Benzo(B)Fluoranthene | --- U | 5.00 | ug/L | | | | | | |
| Benzo(G,H,I)Perylene | --- U | 5.00 | ug/L | | | | | | |
| Benzo(K)Fluoranthene | --- U | 5.00 | ug/L | | | | | | |
| Chrysene | --- U | 5.00 | ug/L | | | | | | |
| Dibenzo(A,H)Anthracene | --- U | 5.00 | ug/L | | | | | | |
| Fluoranthene | --- U | 5.00 | ug/L | | | | | | |
| Fluorene | --- U | 5.00 | ug/L | | | | | | |
| Indeno(1,2,3-Cd)Pyrene | --- U | 5.00 | ug/L | | | | | | |
| Naphthalene | --- U | 5.00 | ug/L | | | | | | |
| Phenanthrene | --- U | 5.00 | ug/L | | | | | | |
| 1,2,4-Trichlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| 2,4,6-Trichlorophenol | --- U | 5.00 | ug/L | | | | | | |
| 2,4-Dichlorophenol | --- U | 5.00 | ug/L | | | | | | |
| 2,4-Dimethylphenol | --- U | 5.00 | ug/L | | | | | | |
| 2,4-Dinitrotoluene | --- U | 5.00 | ug/L | | | | | | |
| 2,6-Dinitrotoluene | --- U | 5.00 | ug/L | | | | | | |
| 2,4-Dinitrophenol | --- U | 5.00 | ug/L | | | | | | |
| 2-Chloronaphthalene | --- U | 5.00 | ug/L | | | | | | |
| 2-Chlorophenol | --- U | 5.00 | ug/L | | | | | | |
| 2-Nitrophenol | --- U | 5.00 | ug/L | | | | | | |
| 3,3'- Dichlorobenzidine | --- U | 5.00 | ug/L | | | | | | |
| 4,6-Dinitro-2-Methylphenol | --- U | 5.00 | ug/L | | | | | | |
| 4-Bromophenyl-Phenylether | --- U | 5.00 | ug/L | | | | | | |
| 4-Chloro-3-Methylphenol | --- U | 5.00 | ug/L | | | | | | |
| 4-Chlorophenyl-Phenylether | --- U | 5.00 | ug/L | | | | | | |
| 4-Nitrophenol | --- U | 5.00 | ug/L | | | | | | |
| Bis(-2-Chloroethoxy)Methane | --- U | 5.00 | ug/L | | | | | | |
| Bis(2-Chloroethyl)Ether | --- U | 5.00 | ug/L | | | | | | |
| Bis(2-Chloroisopropyl)Ether | --- U | 5.00 | ug/L | | | | | | |
| Bis(2-Ethylhexyl)Phthalate | --- U | 5.00 | ug/L | | | | | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Blank (B209096-BLK1)** | | | | | | | | | |
| Butylbenzylphthalate | --- U | 5.00 | ug/L | | | | | | |
| Azobenzene | --- U | 5.00 | ug/L | | | | | | |
| Diethylphthalate | --- U | 5.00 | ug/L | | | | | | |
| Dimethyl Phthalate | --- U | 5.00 | ug/L | | | | | | |
| Di-N-Butyl Phthalate | --- U | 5.00 | ug/L | | | | | | |
| Di-N-Octyl Phthalate | --- U | 5.00 | ug/L | | | | | | |
| Hexachlorobenzene | --- U | 5.00 | ug/L | | | | | | |
| Hexachlorobutadiene | --- U | 5.00 | ug/L | | | | | | |
| Hexachlorocyclopentadiene | --- U | 5.00 | ug/L | | | | | | |
| Hexachloroethane | --- U | 5.00 | ug/L | | | | | | |
| Isophorone | --- U | 5.00 | ug/L | | | | | | |
| Nitrobenzene | --- U | 5.00 | ug/L | | | | | | |
| N-Nitrosodimethylamine | --- U | 5.00 | ug/L | | | | | | |
| N-Nitroso-Di-N-Propylamine | --- U | 5.00 | ug/L | | | | | | |
| N-Nitrosodiphenylamine | --- U | 5.00 | ug/L | | | | | | |
| Pentachlorophenol | --- U | 5.00 | ug/L | | | | | | |
| Phenol | --- U | 5.00 | ug/L | | | | | | |
| Pyrene | --- U | 5.00 | ug/L | | | | | | |
| *Surrogate: 2-Fluoroaniline* | *41.6* | | ug/L | *50.00* | | *83.2* | *60-140* | | |
| *Surrogate: Phenol-D6* | *ND* | | ug/L | *50.00* | | *34.9* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *37.7* | | ug/L | *50.00* | | *75.4* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *37.0* | | ug/L | *50.00* | | *74.1* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *37.6* | | ug/L | *50.00* | | *75.2* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *61.9* | | ug/L | *50.00* | | *124* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *44.4* | | ug/L | *50.00* | | *88.7* | *60-140* | | |
| **LCS (B209096-BS1)** | | | | | | | | | |
| Acenaphthene | 37.7 | 5.00 | ug/L | 50.00 | | 75.5 | 47-145 | | |
| Acenaphthylene | 37.4 | 5.00 | ug/L | 50.00 | | 74.9 | 33-145 | | |
| Anthracene | 43.9 | 5.00 | ug/L | 50.00 | | 87.9 | 27-133 | | |
| Benzo(A)Anthracene | 38.8 | 5.00 | ug/L | 50.00 | | 77.5 | 33-143 | | |
| Benzo(A)Pyrene | 48.2 | 5.00 | ug/L | 50.00 | | 96.4 | 17-163 | | |
| Benzo(B)Fluoranthene | 51.2 | 5.00 | ug/L | 50.00 | | 102 | 24-159 | | |
| Benzo(G,H,I)Perylene | 47.8 | 5.00 | ug/L | 50.00 | | 95.5 | 35-219 | | |
| Benzo(K)Fluoranthene | 48.0 | 5.00 | ug/L | 50.00 | | 95.9 | 11-162 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **LCS (B209096-BS1)** | | | | | | | | | |
| Chrysene | 39.2 | 5.00 | ug/L | 50.00 | | 78.4 | 17-168 | | |
| Dibenzo(A,H)Anthracene | 49.0 | 5.00 | ug/L | 50.00 | | 98.0 | 33-227 | | |
| Fluoranthene | 48.0 | 5.00 | ug/L | 50.00 | | 96.0 | 26-137 | | |
| Fluorene | 42.3 | 5.00 | ug/L | 50.00 | | 84.6 | 59-121 | | |
| Indeno(1,2,3-Cd)Pyrene | 52.2 | 5.00 | ug/L | 50.00 | | 104 | 39-171 | | |
| Naphthalene | 35.9 | 5.00 | ug/L | 50.00 | | 71.8 | 21-133 | | |
| Phenanthrene | 44.1 | 5.00 | ug/L | 50.00 | | 88.2 | 54-120 | | |
| 1,2,4-Trichlorobenzene | 32.3 | 5.00 | ug/L | 50.00 | | 64.7 | 44-142 | | |
| 2,4,6-Trichlorophenol | 41.1 | 5.00 | ug/L | 50.00 | | 82.3 | 37-144 | | |
| 2,4-Dichlorophenol | 41.7 | 5.00 | ug/L | 50.00 | | 83.4 | 39-135 | | |
| 2,4-Dimethylphenol | 44.7 | 5.00 | ug/L | 50.00 | | 89.4 | 32-120 | | |
| 2,4-Dinitrotoluene | 48.0 | 5.00 | ug/L | 50.00 | | 95.9 | 39-139 | | |
| 2,6-Dinitrotoluene | 42.7 | 5.00 | ug/L | 50.00 | | 85.4 | 50-158 | | |
| 2,4-Dinitrophenol | 46.5 | 5.00 | ug/L | 50.00 | | 93.0 | 21-191 | | |
| 2-Chloronaphthalene | 35.4 | 5.00 | ug/L | 50.00 | | 70.7 | 60-120 | | |
| 2-Chlorophenol | 42.4 | 5.00 | ug/L | 50.00 | | 84.8 | 23-134 | | |
| 2-Nitrophenol | 43.8 | 5.00 | ug/L | 50.00 | | 87.6 | 29-182 | | |
| 3,3'- Dichlorobenzidine | 48.3 | 5.00 | ug/L | 50.00 | | 96.5 | 38-262 | | |
| 4,6-Dinitro-2-Methylphenol | 57.6 | 5.00 | ug/L | 50.00 | | 115 | 17-181 | | |
| 4-Bromophenyl-Phenylether | 42.8 | 5.00 | ug/L | 50.00 | | 85.6 | 53-127 | | |
| 4-Chloro-3-Methylphenol | 40.8 | 5.00 | ug/L | 50.00 | | 81.7 | 22-147 | | |
| 4-Chlorophenyl-Phenylether | 41.3 | 5.00 | ug/L | 50.00 | | 82.6 | 25-158 | | |
| 4-Nitrophenol | 21.4 | 5.00 | ug/L | 50.00 | | 42.8 | 9-132 | | |
| Bis(-2-Chloroethoxy)Methane | 39.0 | 5.00 | ug/L | 50.00 | | 77.9 | 33-184 | | |
| Bis(2-Chloroethyl)Ether | 41.9 | 5.00 | ug/L | 50.00 | | 83.8 | 12-158 | | |
| Bis(2-Chloroisopropyl)Ether | 36.0 | 5.00 | ug/L | 50.00 | | 72.1 | 36-166 | | |
| Bis(2-Ethylhexyl)Phthalate | 46.1 | 5.00 | ug/L | 50.00 | | 92.2 | 8-158 | | |
| Butylbenzylphthalate | 41.2 | 5.00 | ug/L | 50.00 | | 82.3 | 38-152 | | |
| Azobenzene | 42.0 | 5.00 | ug/L | 50.00 | | 84.0 | 60-115 | | |
| Diethylphthalate | 27.8 | 5.00 | ug/L | 50.00 | | 55.5 | 31-114 | | |
| Dimethyl Phthalate | 9.04 | 5.00 | ug/L | 50.00 | | 18.1 | 28-120 | | |
| Di-N-Butyl Phthalate | 41.1 | 5.00 | ug/L | 50.00 | | 82.1 | 1-120 | | |
| Di-N-Octyl Phthalate | 49.4 | 5.00 | ug/L | 50.00 | | 98.8 | 4-146 | | |
| Hexachlorobenzene | 43.2 | 5.00 | ug/L | 50.00 | | 86.4 | 35-152 | | |
| Hexachlorobutadiene | 29.5 | 5.00 | ug/L | 50.00 | | 58.9 | 24-120 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **LCS (B209096-BS1)** | | | | | | | | | |
| Hexachlorocyclopentadiene | 29.0 | 5.00 | ug/L | 50.00 | | 58.0 | 15-76 | | |
| Hexachloroethane | 30.8 | 5.00 | ug/L | 50.00 | | 61.6 | 40-120 | | |
| Isophorone | 42.0 | 5.00 | ug/L | 50.00 | | 84.0 | 21-196 | | |
| Nitrobenzene | 42.7 | 5.00 | ug/L | 50.00 | | 85.4 | 35-180 | | |
| N-Nitrosodimethylamine | 28.9 | 5.00 | ug/L | 50.00 | | 57.7 | 17-127 | | |
| N-Nitroso-Di-N-Propylamine | 39.2 | 5.00 | ug/L | 50.00 | | 78.4 | 43-230 | | |
| N-Nitrosodiphenylamine | 49.1 | 5.00 | ug/L | 50.00 | | 98.2 | 79-139 | | |
| Pentachlorophenol | 45.1 | 5.00 | ug/L | 50.00 | | 90.3 | 14-176 | | |
| Phenol | 19.2 | 5.00 | ug/L | 50.00 | | 38.4 | 5-120 | | |
| Pyrene | 49.1 | 5.00 | ug/L | 50.00 | | 98.1 | 52-120 | | |
| *Surrogate: 2-Fluoroaniline* | *43.6* | | ug/L | *50.00* | | *87.2* | *60-140* | | |
| *Surrogate: Phenol-D6* | *17.9* | | ug/L | *50.00* | | *35.8* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *34.3* | | ug/L | *50.00* | | *68.7* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *31.5* | | ug/L | *50.00* | | *62.9* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *38.6* | | ug/L | *50.00* | | *77.2* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *56.4* | | ug/L | *50.00* | | *113* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *36.3* | | ug/L | *50.00* | | *72.6* | *60-140* | | |
| **LCS Dup (B209096-BSD1)** | | | | | | | | | |
| Acenaphthene | 40.3 | 5.00 | ug/L | 50.00 | | 80.5 | 47-145 | 6.46 | 30 |
| Acenaphthylene | 39.6 | 5.00 | ug/L | 50.00 | | 79.2 | 33-145 | 5.68 | 30 |
| Anthracene | 47.4 | 5.00 | ug/L | 50.00 | | 94.9 | 27-133 | 7.66 | 30 |
| Benzo(A)Anthracene | 42.7 | 5.00 | ug/L | 50.00 | | 85.3 | 33-143 | 9.58 | 30 |
| Benzo(A)Pyrene | 53.0 | 5.00 | ug/L | 50.00 | | 106 | 17-163 | 9.53 | 30 |
| Benzo(B)Fluoranthene | 56.1 | 5.00 | ug/L | 50.00 | | 112 | 24-159 | 9.06 | 30 |
| Benzo(G,H,I)Perylene | 53.6 | 5.00 | ug/L | 50.00 | | 107 | 35-219 | 11.6 | 30 |
| Benzo(K)Fluoranthene | 53.3 | 5.00 | ug/L | 50.00 | | 107 | 11-162 | 10.5 | 30 |
| Chrysene | 42.8 | 5.00 | ug/L | 50.00 | | 85.7 | 17-168 | 8.80 | 30 |
| Dibenzo(A,H)Anthracene | 54.9 | 5.00 | ug/L | 50.00 | | 110 | 33-227 | 11.4 | 30 |
| Fluoranthene | 53.1 | 5.00 | ug/L | 50.00 | | 106 | 26-137 | 10.0 | 30 |
| Fluorene | 44.4 | 5.00 | ug/L | 50.00 | | 88.8 | 59-121 | 4.94 | 30 |
| Indeno(1,2,3-Cd)Pyrene | 57.9 | 5.00 | ug/L | 50.00 | | 116 | 39-171 | 10.3 | 30 |
| Naphthalene | 36.9 | 5.00 | ug/L | 50.00 | | 73.8 | 21-133 | 2.77 | 30 |
| Phenanthrene | 48.4 | 5.00 | ug/L | 50.00 | | 96.8 | 54-120 | 9.30 | 30 |
| 1,2,4-Trichlorobenzene | 33.3 | 5.00 | ug/L | 50.00 | | 66.6 | 44-142 | 2.90 | 30 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **LCS Dup (B209096-BSD1)** | | | | | | | | | |
| 2,4,6-Trichlorophenol | 43.8 | 5.00 | ug/L | 50.00 | | 87.5 | 37-144 | 6.19 | 30 |
| 2,4-Dichlorophenol | 43.1 | 5.00 | ug/L | 50.00 | | 86.3 | 39-135 | 3.35 | 30 |
| 2,4-Dimethylphenol | 40.9 | 5.00 | ug/L | 50.00 | | 81.7 | 32-120 | 8.93 | 30 |
| 2,4-Dinitrotoluene | 53.6 | 5.00 | ug/L | 50.00 | | 107 | 39-139 | 11.2 | 30 |
| 2,6-Dinitrotoluene | 47.4 | 5.00 | ug/L | 50.00 | | 94.8 | 50-158 | 10.4 | 30 |
| 2,4-Dinitrophenol | 53.3 | 5.00 | ug/L | 50.00 | | 107 | 21-191 | 13.7 | 30 |
| 2-Chloronaphthalene | 37.3 | 5.00 | ug/L | 50.00 | | 74.7 | 60-120 | 5.48 | 30 |
| 2-Chlorophenol | 42.1 | 5.00 | ug/L | 50.00 | | 84.2 | 23-134 | 0.615 | 30 |
| 2-Nitrophenol | 44.8 | 5.00 | ug/L | 50.00 | | 89.5 | 29-182 | 2.21 | 30 |
| 3,3'- Dichlorobenzidine | 52.0 | 5.00 | ug/L | 50.00 | | 104 | 38-262 | 7.38 | 30 |
| 4,6-Dinitro-2-Methylphenol | 65.9 | 5.00 | ug/L | 50.00 | | 132 | 17-181 | 13.3 | 30 |
| 4-Bromophenyl-Phenylether | 46.5 | 5.00 | ug/L | 50.00 | | 93.1 | 53-127 | 8.33 | 30 |
| 4-Chloro-3-Methylphenol | 43.4 | 5.00 | ug/L | 50.00 | | 86.9 | 22-147 | 6.12 | 30 |
| 4-Chlorophenyl-Phenylether | 44.3 | 5.00 | ug/L | 50.00 | | 88.6 | 25-158 | 6.92 | 30 |
| 4-Nitrophenol | 23.9 | 5.00 | ug/L | 50.00 | | 47.8 | 9-132 | 11.0 | 30 |
| Bis(-2-Chloroethoxy)Methane | 39.8 | 5.00 | ug/L | 50.00 | | 79.7 | 33-184 | 2.18 | 30 |
| Bis(2-Chloroethyl)Ether | 41.6 | 5.00 | ug/L | 50.00 | | 83.1 | 12-158 | 0.815 | 30 |
| Bis(2-Chloroisopropyl)Ether | 35.2 | 5.00 | ug/L | 50.00 | | 70.4 | 36-166 | 2.39 | 30 |
| Bis(2-Ethylhexyl)Phthalate | 51.6 | 5.00 | ug/L | 50.00 | | 103 | 8-158 | 11.4 | 30 |
| Butylbenzylphthalate | 49.4 | 5.00 | ug/L | 50.00 | | 98.8 | 38-152 | 18.2 | 30 |
| Azobenzene | 44.5 | 5.00 | ug/L | 50.00 | | 89.0 | 60-115 | 5.78 | 30 |
| Diethylphthalate | 30.6 | 5.00 | ug/L | 50.00 | | 61.2 | 31-114 | 9.70 | 30 |
| Dimethyl Phthalate | 10.8 | 5.00 | ug/L | 50.00 | | 21.6 | 28-120 | 17.7 | 30 |
| Di-N-Butyl Phthalate | 46.1 | 5.00 | ug/L | 50.00 | | 92.2 | 1-120 | 11.6 | 30 |
| Di-N-Octyl Phthalate | 55.2 | 5.00 | ug/L | 50.00 | | 110 | 4-146 | 11.1 | 30 |
| Hexachlorobenzene | 47.9 | 5.00 | ug/L | 50.00 | | 95.7 | 35-152 | 10.2 | 30 |
| Hexachlorobutadiene | 29.8 | 5.00 | ug/L | 50.00 | | 59.7 | 24-120 | 1.21 | 30 |
| Hexachlorocyclopentadiene | 30.3 | 5.00 | ug/L | 50.00 | | 60.6 | 15-76 | 4.38 | 30 |
| Hexachloroethane | 31.4 | 5.00 | ug/L | 50.00 | | 62.7 | 40-120 | 1.90 | 30 |
| Isophorone | 44.1 | 5.00 | ug/L | 50.00 | | 88.2 | 21-196 | 4.81 | 30 |
| Nitrobenzene | 43.7 | 5.00 | ug/L | 50.00 | | 87.4 | 35-180 | 2.31 | 30 |
| N-Nitrosodimethylamine | 28.1 | 5.00 | ug/L | 50.00 | | 56.3 | 17-127 | 2.53 | 30 |
| N-Nitroso-Di-N-Propylamine | 40.4 | 5.00 | ug/L | 50.00 | | 80.8 | 43-230 | 3.12 | 30 |
| N-Nitrosodiphenylamine | 52.6 | 5.00 | ug/L | 50.00 | | 105 | 79-139 | 6.90 | 30 |
| Pentachlorophenol | 51.4 | 5.00 | ug/L | 50.00 | | 103 | 14-176 | 13.0 | 30 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **LCS Dup (B209096-BSD1)** | | | | | | | | | |
| Phenol | 19.1 | 5.00 | ug/L | 50.00 | | 38.2 | 5-120 | 0.574 | 30 |
| Pyrene | 54.3 | 5.00 | ug/L | 50.00 | | 109 | 52-120 | 10.2 | 30 |
| *Surrogate: 2-Fluoroaniline* | *43.2* | | ug/L | *50.00* | | *86.5* | *60-140* | | |
| *Surrogate: Phenol-D6* | *17.4* | | ug/L | *50.00* | | *34.9* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *35.4* | | ug/L | *50.00* | | *70.8* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *33.3* | | ug/L | *50.00* | | *66.6* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *40.7* | | ug/L | *50.00* | | *81.3* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *61.5* | | ug/L | *50.00* | | *123* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *39.1* | | ug/L | *50.00* | | *78.3* | *60-140* | | |
| **Matrix Spike (B209096-MS1)** | **Source: 2209014-01** | | | | | | | | |
| Acenaphthene | 41.5 | 5.00 | ug/L | 50.00 | ND | 83.0 | 47-145 | | |
| Acenaphthylene | 42.8 | 5.00 | ug/L | 50.00 | ND | 85.5 | 33-145 | | |
| Anthracene | 47.4 | 5.00 | ug/L | 50.00 | ND | 94.9 | 27-133 | | |
| Benzo(A)Anthracene | 40.7 | 5.00 | ug/L | 50.00 | ND | 81.5 | 33-143 | | |
| Benzo(A)Pyrene | 53.2 | 5.00 | ug/L | 50.00 | ND | 106 | 17-163 | | |
| Benzo(B)Fluoranthene | 52.7 | 5.00 | ug/L | 50.00 | ND | 105 | 24-159 | | |
| Benzo(G,H,I)Perylene | 51.1 | 5.00 | ug/L | 50.00 | ND | 102 | 35-219 | | |
| Benzo(K)Fluoranthene | 50.0 | 5.00 | ug/L | 50.00 | ND | 100 | 11-162 | | |
| Chrysene | 41.2 | 5.00 | ug/L | 50.00 | ND | 82.4 | 17-168 | | |
| Dibenzo(A,H)Anthracene | 53.7 | 5.00 | ug/L | 50.00 | ND | 107 | 33-227 | | |
| Fluoranthene | 49.1 | 5.00 | ug/L | 50.00 | ND | 98.2 | 26-137 | | |
| Fluorene | 50.8 | 5.00 | ug/L | 50.00 | ND | 102 | 59-121 | | |
| Indeno(1,2,3-Cd)Pyrene | 56.7 | 5.00 | ug/L | 50.00 | ND | 113 | 39-171 | | |
| Naphthalene | 39.2 | 5.00 | ug/L | 50.00 | ND | 78.4 | 21-133 | | |
| Phenanthrene | 49.4 | 5.00 | ug/L | 50.00 | ND | 98.9 | 54-120 | | |
| 1,2,4-Trichlorobenzene | 38.4 | 5.00 | ug/L | 50.00 | ND | 76.9 | 44-142 | | |
| 2,4,6-Trichlorophenol | 46.2 | 5.00 | ug/L | 50.00 | ND | 92.4 | 37-144 | | |
| 2,4-Dichlorophenol | 44.2 | 5.00 | ug/L | 50.00 | ND | 88.4 | 39-135 | | |
| 2,4-Dimethylphenol | 43.6 | 5.00 | ug/L | 50.00 | ND | 87.2 | 32-120 | | |
| 2,4-Dinitrotoluene | 55.9 | 5.00 | ug/L | 50.00 | ND | 112 | 39-139 | | |
| 2,6-Dinitrotoluene | 46.0 | 5.00 | ug/L | 50.00 | ND | 92.0 | 50-158 | | |
| 2,4-Dinitrophenol | 58.5 | 5.00 | ug/L | 50.00 | ND | 117 | 21-191 | | |
| 2-Chloronaphthalene | 40.8 | 5.00 | ug/L | 50.00 | ND | 81.6 | 60-120 | | |
| 2-Chlorophenol | 38.8 | 5.00 | ug/L | 50.00 | ND | 77.6 | 23-134 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike (B209096-MS1)** | **Source: 2209014-01** | | | | | | | | |
| 2-Nitrophenol | 45.8 | 5.00 | ug/L | 50.00 | ND | 91.6 | 29-182 | | |
| 3,3'- Dichlorobenzidine | 42.3 | 5.00 | ug/L | 50.00 | ND | 84.5 | 38-262 | | |
| 4,6-Dinitro-2-Methylphenol | 64.2 | 5.00 | ug/L | 50.00 | ND | 128 | 17-181 | | |
| 4-Bromophenyl-Phenylether | 52.7 | 5.00 | ug/L | 50.00 | ND | 105 | 53-127 | | |
| 4-Chloro-3-Methylphenol | 44.0 | 5.00 | ug/L | 50.00 | ND | 88.0 | 22-147 | | |
| 4-Chlorophenyl-Phenylether | 52.5 | 5.00 | ug/L | 50.00 | ND | 105 | 25-158 | | |
| 4-Nitrophenol | 22.0 | 5.00 | ug/L | 50.00 | ND | 44.0 | 9-132 | | |
| Bis(-2-Chloroethoxy)Methane | 41.8 | 5.00 | ug/L | 50.00 | ND | 83.5 | 33-184 | | |
| Bis(2-Chloroethyl)Ether | 40.1 | 5.00 | ug/L | 50.00 | ND | 80.2 | 12-158 | | |
| Bis(2-Chloroisopropyl)Ether | 38.8 | 5.00 | ug/L | 50.00 | ND | 77.7 | 36-166 | | |
| Bis(2-Ethylhexyl)Phthalate | 50.1 | 5.00 | ug/L | 50.00 | ND | 100 | 8-158 | | |
| Butylbenzylphthalate | 49.5 | 5.00 | ug/L | 50.00 | ND | 99.0 | 38-152 | | |
| Azobenzene | 51.0 | 5.00 | ug/L | 50.00 | ND | 102 | 61-106 | | |
| Diethylphthalate | 40.4 | 5.00 | ug/L | 50.00 | ND | 80.9 | 31-114 | | |
| Dimethyl Phthalate | 19.2 | 5.00 | ug/L | 50.00 | ND | 38.3 | 28-120 | | |
| Di-N-Butyl Phthalate | 48.3 | 5.00 | ug/L | 50.00 | ND | 96.6 | 1-120 | | |
| Di-N-Octyl Phthalate | 54.2 | 5.00 | ug/L | 50.00 | ND | 108 | 4-146 | | |
| Hexachlorobenzene | 52.4 | 5.00 | ug/L | 50.00 | ND | 105 | 35-152 | | |
| Hexachlorobutadiene | 36.0 | 5.00 | ug/L | 50.00 | ND | 72.1 | 24-120 | | |
| Hexachlorocyclopentadiene | 28.6 | 5.00 | ug/L | 50.00 | ND | 57.1 | 15-76 | | |
| Hexachloroethane | 34.9 | 5.00 | ug/L | 50.00 | ND | 69.8 | 40-120 | | |
| Isophorone | 41.5 | 5.00 | ug/L | 50.00 | ND | 83.1 | 21-196 | | |
| Nitrobenzene | 43.9 | 5.00 | ug/L | 50.00 | ND | 87.8 | 35-180 | | |
| N-Nitrosodimethylamine | 21.4 | 5.00 | ug/L | 50.00 | ND | 42.8 | 17-127 | | |
| N-Nitroso-Di-N-Propylamine | 44.0 | 5.00 | ug/L | 50.00 | ND | 87.9 | 43-230 | | |
| N-Nitrosodiphenylamine | 48.4 | 5.00 | ug/L | 50.00 | ND | 96.7 | 79-139 | | |
| Pentachlorophenol | 52.8 | 5.00 | ug/L | 50.00 | ND | 106 | 14-176 | | |
| Phenol | 18.7 | 5.00 | ug/L | 50.00 | ND | 37.3 | 5-120 | | |
| Pyrene | 49.2 | 5.00 | ug/L | 50.00 | ND | 98.5 | 52-120 | | |
| *Surrogate: 2-Fluoroaniline* | *40.8* | | ug/L | *50.00* | | *81.5* | *60-140* | | |
| *Surrogate: Phenol-D6* | *17.9* | | ug/L | *50.00* | | *35.9* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *40.1* | | ug/L | *50.00* | | *80.1* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *38.0* | | ug/L | *50.00* | | *76.0* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *44.1* | | ug/L | *50.00* | | *88.2* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *65.8* | | ug/L | *50.00* | | *132* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike (B209096-MS1)** | | **Source: 2209014-01** | | | | | | | |
| *Surrogate: Chrysene-D12* | *38.5* | | ug/L | *50.00* | | *76.9* | *60-140* | | |
| **Matrix Spike (B209096-MS2)** | | **Source: 2209015-02** | | | | | | | |
| Acenaphthene | 39.0 | 5.00 | ug/L | 50.00 | ND | 78.0 | 47-145 | | |
| Acenaphthylene | 39.4 | 5.00 | ug/L | 50.00 | ND | 78.8 | 33-145 | | |
| Anthracene | 43.9 | 5.00 | ug/L | 50.00 | ND | 87.7 | 27-133 | | |
| Benzo(A)Anthracene | 40.0 | 5.00 | ug/L | 50.00 | ND | 80.0 | 33-143 | | |
| Benzo(A)Pyrene | 54.2 | 5.00 | ug/L | 50.00 | ND | 108 | 17-163 | | |
| Benzo(B)Fluoranthene | 52.0 | 5.00 | ug/L | 50.00 | ND | 104 | 24-159 | | |
| Benzo(G,H,I)Perylene | 50.6 | 5.00 | ug/L | 50.00 | ND | 101 | 35-219 | | |
| Benzo(K)Fluoranthene | 49.8 | 5.00 | ug/L | 50.00 | ND | 99.7 | 11-162 | | |
| Chrysene | 40.8 | 5.00 | ug/L | 50.00 | ND | 81.5 | 17-168 | | |
| Dibenzo(A,H)Anthracene | 52.9 | 5.00 | ug/L | 50.00 | ND | 106 | 33-227 | | |
| Fluoranthene | 49.1 | 5.00 | ug/L | 50.00 | ND | 98.2 | 26-137 | | |
| Fluorene | 43.6 | 5.00 | ug/L | 50.00 | ND | 87.1 | 59-121 | | |
| Indeno(1,2,3-Cd)Pyrene | 55.8 | 5.00 | ug/L | 50.00 | ND | 112 | 39-171 | | |
| Naphthalene | 37.8 | 5.00 | ug/L | 50.00 | ND | 75.5 | 21-133 | | |
| Phenanthrene | 45.2 | 5.00 | ug/L | 50.00 | ND | 90.5 | 54-120 | | |
| 1,2,4-Trichlorobenzene | 39.8 | 5.00 | ug/L | 50.00 | ND | 79.6 | 44-142 | | |
| 2,4,6-Trichlorophenol | 42.8 | 5.00 | ug/L | 50.00 | ND | 85.6 | 37-144 | | |
| 2,4-Dichlorophenol | 42.5 | 5.00 | ug/L | 50.00 | ND | 84.9 | 39-135 | | |
| 2,4-Dimethylphenol | 37.1 | 5.00 | ug/L | 50.00 | ND | 74.2 | 32-120 | | |
| 2,4-Dinitrotoluene | 49.2 | 5.00 | ug/L | 50.00 | ND | 98.5 | 39-139 | | |
| 2,6-Dinitrotoluene | 43.0 | 5.00 | ug/L | 50.00 | ND | 86.0 | 50-158 | | |
| 2,4-Dinitrophenol | 66.1 | 5.00 | ug/L | 50.00 | ND | 132 | 21-191 | | |
| 2-Chloronaphthalene | 38.8 | 5.00 | ug/L | 50.00 | ND | 77.7 | 60-120 | | |
| 2-Chlorophenol | 39.0 | 5.00 | ug/L | 50.00 | ND | 78.0 | 23-134 | | |
| 2-Nitrophenol | 44.4 | 5.00 | ug/L | 50.00 | ND | 88.8 | 29-182 | | |
| 3,3'- Dichlorobenzidine | 44.4 | 5.00 | ug/L | 50.00 | ND | 88.8 | 38-262 | | |
| 4,6-Dinitro-2-Methylphenol | 62.1 | 5.00 | ug/L | 50.00 | ND | 124 | 17-181 | | |
| 4-Bromophenyl-Phenylether | 45.1 | 5.00 | ug/L | 50.00 | ND | 90.2 | 53-127 | | |
| 4-Chloro-3-Methylphenol | 41.8 | 5.00 | ug/L | 50.00 | ND | 83.5 | 22-147 | | |
| 4-Chlorophenyl-Phenylether | 44.8 | 5.00 | ug/L | 50.00 | ND | 89.6 | 25-158 | | |
| 4-Nitrophenol | 24.6 | 5.00 | ug/L | 50.00 | ND | 49.2 | 9-132 | | |
| Bis(-2-Chloroethoxy)Methane | 38.0 | 5.00 | ug/L | 50.00 | ND | 75.9 | 33-184 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike (B209096-MS2)** | **Source: 2209015-02** | | | | | | | | |
| Bis(2-Chloroethyl)Ether | 38.2 | 5.00 | ug/L | 50.00 | ND | 76.4 | 12-158 | | |
| Bis(2-Chloroisopropyl)Ether | 36.4 | 5.00 | ug/L | 50.00 | ND | 72.9 | 36-166 | | |
| Bis(2-Ethylhexyl)Phthalate | 51.4 | 5.00 | ug/L | 50.00 | ND | 103 | 8-158 | | |
| Butylbenzylphthalate | 66.1 | 5.00 | ug/L | 50.00 | ND | 132 | 38-152 | | |
| Azobenzene | 43.8 | 5.00 | ug/L | 50.00 | ND | 87.7 | 61-106 | | |
| Diethylphthalate | 43.9 | 5.00 | ug/L | 50.00 | ND | 87.8 | 31-114 | | |
| Dimethyl Phthalate | 38.4 | 5.00 | ug/L | 50.00 | ND | 76.9 | 28-120 | | |
| Di-N-Butyl Phthalate | 49.2 | 5.00 | ug/L | 50.00 | ND | 98.3 | 1-120 | | |
| Di-N-Octyl Phthalate | 55.8 | 5.00 | ug/L | 50.00 | ND | 112 | 4-146 | | |
| Hexachlorobenzene | 45.0 | 5.00 | ug/L | 50.00 | ND | 90.0 | 35-152 | | |
| Hexachlorobutadiene | 40.7 | 5.00 | ug/L | 50.00 | ND | 81.3 | 24-120 | | |
| Hexachlorocyclopentadiene | 40.4 | 5.00 | ug/L | 50.00 | ND | 80.9 | 15-76 | | |
| Hexachloroethane | 40.6 | 5.00 | ug/L | 50.00 | ND | 81.3 | 40-120 | | |
| Isophorone | 38.1 | 5.00 | ug/L | 50.00 | ND | 76.1 | 21-196 | | |
| Nitrobenzene | 41.3 | 5.00 | ug/L | 50.00 | ND | 82.5 | 35-180 | | |
| N-Nitrosodimethylamine | 24.6 | 5.00 | ug/L | 50.00 | ND | 49.2 | 17-127 | | |
| N-Nitroso-Di-N-Propylamine | 39.8 | 5.00 | ug/L | 50.00 | ND | 79.7 | 43-230 | | |
| N-Nitrosodiphenylamine | 42.5 | 5.00 | ug/L | 50.00 | ND | 85.1 | 79-139 | | |
| Pentachlorophenol | 48.3 | 5.00 | ug/L | 50.00 | ND | 96.6 | 14-176 | | |
| Phenol | 18.8 | 5.00 | ug/L | 50.00 | ND | 37.7 | 5-120 | | |
| Pyrene | 50.0 | 5.00 | ug/L | 50.00 | ND | 99.9 | 52-120 | | |
| *Surrogate: 2-Fluoroaniline* | *37.6* | | ug/L | *50.00* | | *75.3* | *60-140* | | |
| *Surrogate: Phenol-D6* | *18.0* | | ug/L | *50.00* | | *35.9* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *38.9* | | ug/L | *50.00* | | *77.7* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *38.8* | | ug/L | *50.00* | | *77.5* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *41.3* | | ug/L | *50.00* | | *82.6* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *59.9* | | ug/L | *50.00* | | *120* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *38.2* | | ug/L | *50.00* | | *76.5* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike Dup (B209096-MSD1)** | **Source: 2209014-01** | | | | | | | | |
| Acenaphthene | 37.8 | 5.00 | ug/L | 50.00 | ND | 75.5 | 47-145 | 9.46 | 24 |
| Acenaphthylene | 38.7 | 5.00 | ug/L | 50.00 | ND | 77.3 | 33-145 | 10.0 | 24 |
| Anthracene | 44.0 | 5.00 | ug/L | 50.00 | ND | 88.1 | 27-133 | 7.41 | 24 |
| Benzo(A)Anthracene | 38.9 | 5.00 | ug/L | 50.00 | ND | 77.9 | 33-143 | 4.52 | 24 |
| Benzo(A)Pyrene | 51.8 | 5.00 | ug/L | 50.00 | ND | 104 | 17-163 | 2.66 | 24 |
| Benzo(B)Fluoranthene | 51.2 | 5.00 | ug/L | 50.00 | ND | 102 | 24-159 | 2.85 | 24 |
| Benzo(G,H,I)Perylene | 50.0 | 5.00 | ug/L | 50.00 | ND | 100 | 35-219 | 2.00 | 24 |
| Benzo(K)Fluoranthene | 48.1 | 5.00 | ug/L | 50.00 | ND | 96.2 | 11-162 | 3.81 | 24 |
| Chrysene | 39.4 | 5.00 | ug/L | 50.00 | ND | 78.9 | 17-168 | 4.37 | 24 |
| Dibenzo(A,H)Anthracene | 52.2 | 5.00 | ug/L | 50.00 | ND | 104 | 33-227 | 2.83 | 24 |
| Fluoranthene | 48.8 | 5.00 | ug/L | 50.00 | ND | 97.6 | 26-137 | 0.695 | 24 |
| Fluorene | 44.9 | 5.00 | ug/L | 50.00 | ND | 89.8 | 59-121 | 12.4 | 24 |
| Indeno(1,2,3-Cd)Pyrene | 55.1 | 5.00 | ug/L | 50.00 | ND | 110 | 39-171 | 2.79 | 24 |
| Naphthalene | 37.2 | 5.00 | ug/L | 50.00 | ND | 74.4 | 21-133 | 5.23 | 24 |
| Phenanthrene | 45.6 | 5.00 | ug/L | 50.00 | ND | 91.2 | 54-120 | 8.12 | 24 |
| 1,2,4-Trichlorobenzene | 36.7 | 5.00 | ug/L | 50.00 | ND | 73.4 | 44-142 | 4.71 | 24 |
| 2,4,6-Trichlorophenol | 41.8 | 5.00 | ug/L | 50.00 | ND | 83.6 | 37-144 | 10.0 | 24 |
| 2,4-Dichlorophenol | 41.3 | 5.00 | ug/L | 50.00 | ND | 82.6 | 39-135 | 6.71 | 24 |
| 2,4-Dimethylphenol | 41.6 | 5.00 | ug/L | 50.00 | ND | 83.3 | 32-120 | 4.67 | 24 |
| 2,4-Dinitrotoluene | 50.8 | 5.00 | ug/L | 50.00 | ND | 102 | 39-139 | 9.73 | 24 |
| 2,6-Dinitrotoluene | 42.0 | 5.00 | ug/L | 50.00 | ND | 84.0 | 50-158 | 9.16 | 24 |
| 2,4-Dinitrophenol | 63.9 | 5.00 | ug/L | 50.00 | ND | 128 | 21-191 | 8.81 | 24 |
| 2-Chloronaphthalene | 37.1 | 5.00 | ug/L | 50.00 | ND | 74.2 | 60-120 | 9.55 | 24 |
| 2-Chlorophenol | 39.2 | 5.00 | ug/L | 50.00 | ND | 78.5 | 23-134 | 1.18 | 24 |
| 2-Nitrophenol | 43.6 | 5.00 | ug/L | 50.00 | ND | 87.2 | 29-182 | 4.95 | 24 |
| 3,3'- Dichlorobenzidine | 41.1 | 5.00 | ug/L | 50.00 | ND | 82.2 | 38-262 | 2.86 | 24 |
| 4,6-Dinitro-2-Methylphenol | 60.7 | 5.00 | ug/L | 50.00 | ND | 121 | 17-181 | 5.59 | 24 |
| 4-Bromophenyl-Phenylether | 45.5 | 5.00 | ug/L | 50.00 | ND | 91.1 | 53-127 | 14.7 | 24 |
| 4-Chloro-3-Methylphenol | 40.4 | 5.00 | ug/L | 50.00 | ND | 80.7 | 22-147 | 8.68 | 24 |
| 4-Chlorophenyl-Phenylether | 44.8 | 5.00 | ug/L | 50.00 | ND | 89.7 | 25-158 | 15.8 | 24 |
| 4-Nitrophenol | 23.0 | 5.00 | ug/L | 50.00 | ND | 46.1 | 9-132 | 4.66 | 24 |
| Bis(-2-Chloroethoxy)Methane | 37.7 | 5.00 | ug/L | 50.00 | ND | 75.4 | 33-184 | 10.2 | 24 |
| Bis(2-Chloroethyl)Ether | 39.0 | 5.00 | ug/L | 50.00 | ND | 78.0 | 12-158 | 2.73 | 24 |
| Bis(2-Chloroisopropyl)Ether | 36.1 | 5.00 | ug/L | 50.00 | ND | 72.2 | 36-166 | 7.34 | 24 |
| Bis(2-Ethylhexyl)Phthalate | 48.0 | 5.00 | ug/L | 50.00 | ND | 96.0 | 8-158 | 4.24 | 24 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike Dup (B209096-MSD1)** | **Source: 2209014-01** | | | | | | | | |
| Butylbenzylphthalate | 45.8 | 5.00 | ug/L | 50.00 | ND | 91.6 | 38-152 | 7.77 | 24 |
| Azobenzene | 44.7 | 5.00 | ug/L | 50.00 | ND | 89.4 | 61-106 | 13.2 | 24 |
| Diethylphthalate | 33.6 | 5.00 | ug/L | 50.00 | ND | 67.2 | 31-114 | 18.4 | 24 |
| Dimethyl Phthalate | 15.2 | 5.00 | ug/L | 50.00 | ND | 30.5 | 28-120 | 22.8 | 24 |
| Di-N-Butyl Phthalate | 43.1 | 5.00 | ug/L | 50.00 | ND | 86.2 | 1-120 | 11.4 | 24 |
| Di-N-Octyl Phthalate | 52.6 | 5.00 | ug/L | 50.00 | ND | 105 | 4-146 | 3.05 | 24 |
| Hexachlorobenzene | 46.0 | 5.00 | ug/L | 50.00 | ND | 91.9 | 35-152 | 13.0 | 24 |
| Hexachlorobutadiene | 35.7 | 5.00 | ug/L | 50.00 | ND | 71.4 | 24-120 | 1.03 | 24 |
| Hexachlorocyclopentadiene | 26.1 | 5.00 | ug/L | 50.00 | ND | 52.2 | 15-76 | 8.92 | 24 |
| Hexachloroethane | 36.0 | 5.00 | ug/L | 50.00 | ND | 72.1 | 40-120 | 3.19 | 24 |
| Isophorone | 37.2 | 5.00 | ug/L | 50.00 | ND | 74.5 | 21-196 | 10.9 | 24 |
| Nitrobenzene | 41.7 | 5.00 | ug/L | 50.00 | ND | 83.4 | 35-180 | 5.16 | 24 |
| N-Nitrosodimethylamine | 27.6 | 5.00 | ug/L | 50.00 | ND | 55.3 | 17-127 | 25.5 | 24 |
| N-Nitroso-Di-N-Propylamine | 39.5 | 5.00 | ug/L | 50.00 | ND | 79.0 | 43-230 | 10.8 | 24 |
| N-Nitrosodiphenylamine | 43.1 | 5.00 | ug/L | 50.00 | ND | 86.3 | 79-139 | 11.4 | 24 |
| Pentachlorophenol | 49.6 | 5.00 | ug/L | 50.00 | ND | 99.2 | 14-176 | 6.23 | 24 |
| Phenol | 19.5 | 5.00 | ug/L | 50.00 | ND | 39.0 | 5-120 | 4.45 | 24 |
| Pyrene | 49.7 | 5.00 | ug/L | 50.00 | ND | 99.5 | 52-120 | 1.03 | 24 |
| *Surrogate: 2-Fluoroaniline* | *41.1* | | ug/L | *50.00* | | *82.2* | *60-140* | | |
| *Surrogate: Phenol-D6* | *18.9* | | ug/L | *50.00* | | *37.8* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *36.5* | | ug/L | *50.00* | | *73.0* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *34.0* | | ug/L | *50.00* | | *68.0* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *39.4* | | ug/L | *50.00* | | *78.9* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *60.1* | | ug/L | *50.00* | | *120* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *36.9* | | ug/L | *50.00* | | *73.7* | *60-140* | | |
| **Matrix Spike Dup (B209096-MSD2)** | **Source: 2209015-02** | | | | | | | | |
| Acenaphthene | 39.8 | 5.05 | ug/L | 50.51 | ND | 78.8 | 47-145 | 2.03 | 24 |
| Acenaphthylene | 40.2 | 5.05 | ug/L | 50.51 | ND | 79.5 | 33-145 | 1.97 | 24 |
| Anthracene | 44.7 | 5.05 | ug/L | 50.51 | ND | 88.5 | 27-133 | 1.85 | 24 |
| Benzo(A)Anthracene | 40.3 | 5.05 | ug/L | 50.51 | ND | 79.9 | 33-143 | 0.880 | 24 |
| Benzo(A)Pyrene | 54.0 | 5.05 | ug/L | 50.51 | ND | 107 | 17-163 | 0.332 | 24 |
| Benzo(B)Fluoranthene | 52.7 | 5.05 | ug/L | 50.51 | ND | 104 | 24-159 | 1.35 | 24 |
| Benzo(G,H,I)Perylene | 51.1 | 5.05 | ug/L | 50.51 | ND | 101 | 35-219 | 0.827 | 24 |
| Benzo(K)Fluoranthene | 49.6 | 5.05 | ug/L | 50.51 | ND | 98.2 | 11-162 | 0.532 | 24 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike Dup (B209096-MSD2)** | **Source: 2209015-02** | | | | | | | | |
| Chrysene | 41.2 | 5.05 | ug/L | 50.51 | ND | 81.6 | 17-168 | 1.10 | 24 |
| Dibenzo(A,H)Anthracene | 53.6 | 5.05 | ug/L | 50.51 | ND | 106 | 33-227 | 1.44 | 24 |
| Fluoranthene | 50.8 | 5.05 | ug/L | 50.51 | ND | 101 | 26-137 | 3.38 | 24 |
| Fluorene | 44.5 | 5.05 | ug/L | 50.51 | ND | 88.1 | 59-121 | 2.06 | 24 |
| Indeno(1,2,3-Cd)Pyrene | 56.5 | 5.05 | ug/L | 50.51 | ND | 112 | 39-171 | 1.17 | 24 |
| Naphthalene | 38.2 | 5.05 | ug/L | 50.51 | ND | 75.6 | 21-133 | 1.14 | 24 |
| Phenanthrene | 46.4 | 5.05 | ug/L | 50.51 | ND | 91.8 | 54-120 | 2.50 | 24 |
| 1,2,4-Trichlorobenzene | 39.9 | 5.05 | ug/L | 50.51 | ND | 79.0 | 44-142 | 0.274 | 24 |
| 2,4,6-Trichlorophenol | 43.7 | 5.05 | ug/L | 50.51 | ND | 86.6 | 37-144 | 2.14 | 24 |
| 2,4-Dichlorophenol | 41.9 | 5.05 | ug/L | 50.51 | ND | 83.0 | 39-135 | 1.33 | 24 |
| 2,4-Dimethylphenol | 29.2 | 5.05 | ug/L | 50.51 | ND | 57.9 | 32-120 | 23.7 | 24 |
| 2,4-Dinitrotoluene | 51.2 | 5.05 | ug/L | 50.51 | ND | 101 | 39-139 | 3.99 | 24 |
| 2,6-Dinitrotoluene | 44.6 | 5.05 | ug/L | 50.51 | ND | 88.2 | 50-158 | 3.55 | 24 |
| 2,4-Dinitrophenol | 70.9 | 5.05 | ug/L | 50.51 | ND | 140 | 21-191 | 7.04 | 24 |
| 2-Chloronaphthalene | 39.6 | 5.05 | ug/L | 50.51 | ND | 78.3 | 60-120 | 1.83 | 24 |
| 2-Chlorophenol | 39.0 | 5.05 | ug/L | 50.51 | ND | 77.2 | 23-134 | 0.0518 | 24 |
| 2-Nitrophenol | 45.2 | 5.05 | ug/L | 50.51 | ND | 89.4 | 29-182 | 1.66 | 24 |
| 3,3'- Dichlorobenzidine | 43.2 | 5.05 | ug/L | 50.51 | ND | 85.4 | 38-262 | 2.90 | 24 |
| 4,6-Dinitro-2-Methylphenol | 63.6 | 5.05 | ug/L | 50.51 | ND | 126 | 17-181 | 2.49 | 24 |
| 4-Bromophenyl-Phenylether | 46.6 | 5.05 | ug/L | 50.51 | ND | 92.2 | 53-127 | 3.18 | 24 |
| 4-Chloro-3-Methylphenol | 42.0 | 5.05 | ug/L | 50.51 | ND | 83.2 | 22-147 | 0.669 | 24 |
| 4-Chlorophenyl-Phenylether | 45.9 | 5.05 | ug/L | 50.51 | ND | 90.8 | 25-158 | 2.31 | 24 |
| 4-Nitrophenol | 23.1 | 5.05 | ug/L | 50.51 | ND | 45.7 | 9-132 | 6.42 | 24 |
| Bis(-2-Chloroethoxy)Methane | 38.0 | 5.05 | ug/L | 50.51 | ND | 75.2 | 33-184 | 0.0253 | 24 |
| Bis(2-Chloroethyl)Ether | 38.8 | 5.05 | ug/L | 50.51 | ND | 76.9 | 12-158 | 1.55 | 24 |
| Bis(2-Chloroisopropyl)Ether | 36.0 | 5.05 | ug/L | 50.51 | ND | 71.4 | 36-166 | 1.10 | 24 |
| Bis(2-Ethylhexyl)Phthalate | 50.1 | 5.05 | ug/L | 50.51 | ND | 99.2 | 8-158 | 2.62 | 24 |
| Butylbenzylphthalate | 65.9 | 5.05 | ug/L | 50.51 | ND | 130 | 38-152 | 0.289 | 24 |
| Azobenzene | 44.4 | 5.05 | ug/L | 50.51 | ND | 88.0 | 61-106 | 1.32 | 24 |
| Diethylphthalate | 44.8 | 5.05 | ug/L | 50.51 | ND | 88.8 | 31-114 | 2.14 | 24 |
| Dimethyl Phthalate | 38.8 | 5.05 | ug/L | 50.51 | ND | 76.9 | 28-120 | 1.01 | 24 |
| Di-N-Butyl Phthalate | 50.0 | 5.05 | ug/L | 50.51 | ND | 98.9 | 1-120 | 1.61 | 24 |
| Di-N-Octyl Phthalate | 54.2 | 5.05 | ug/L | 50.51 | ND | 107 | 4-146 | 2.85 | 24 |
| Hexachlorobenzene | 46.8 | 5.05 | ug/L | 50.51 | ND | 92.7 | 35-152 | 3.94 | 24 |
| Hexachlorobutadiene | 40.8 | 5.05 | ug/L | 50.51 | ND | 80.7 | 24-120 | 0.289 | 24 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## NVOA GCMS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209096** | | | | | | | | | |
| **Matrix Spike Dup (B209096-MSD2)** | **Source: 2209015-02** | | | | | | | | |
| Hexachlorocyclopentadiene | 38.6 | 5.05 | ug/L | 50.51 | ND | 76.5 | 15-76 | 4.59 | 24 |
| Hexachloroethane | 41.2 | 5.05 | ug/L | 50.51 | ND | 81.7 | 40-120 | 1.50 | 24 |
| Isophorone | 38.4 | 5.05 | ug/L | 50.51 | ND | 76.0 | 21-196 | 0.900 | 24 |
| Nitrobenzene | 41.6 | 5.05 | ug/L | 50.51 | ND | 82.4 | 35-180 | 0.835 | 24 |
| N-Nitrosodimethylamine | 26.9 | 5.05 | ug/L | 50.51 | ND | 53.2 | 17-127 | 8.77 | 24 |
| N-Nitroso-Di-N-Propylamine | 40.2 | 5.05 | ug/L | 50.51 | ND | 79.6 | 43-230 | 0.854 | 24 |
| N-Nitrosodiphenylamine | 43.5 | 5.05 | ug/L | 50.51 | ND | 86.0 | 79-139 | 2.15 | 24 |
| Pentachlorophenol | 48.4 | 5.05 | ug/L | 50.51 | ND | 95.8 | 14-176 | 0.194 | 24 |
| Phenol | 17.9 | 5.05 | ug/L | 50.51 | ND | 35.5 | 5-120 | 5.01 | 24 |
| Pyrene | 51.2 | 5.05 | ug/L | 50.51 | ND | 101 | 52-120 | 2.55 | 24 |
| *Surrogate: 2-Fluoroaniline* | *39.7* | | ug/L | *50.51* | | *78.6* | *60-140* | | |
| *Surrogate: Phenol-D6* | *17.2* | | ug/L | *50.51* | | *34.1* | *60-140* | | |
| *Surrogate: Naphthalene-D8* | *39.4* | | ug/L | *50.51* | | *78.0* | *60-140* | | |
| *Surrogate: 1-Fluoronaphthalene* | *39.1* | | ug/L | *50.51* | | *77.4* | *60-140* | | |
| *Surrogate: 2,4-Dibromophenol* | *42.1* | | ug/L | *50.51* | | *83.4* | *60-140* | | |
| *Surrogate: Anthracene-D10* | *61.8* | | ug/L | *50.51* | | *122* | *60-140* | | |
| *Surrogate: Chrysene-D12* | *38.8* | | ug/L | *50.51* | | *76.8* | *60-140* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **Blank (B209103-BLK1)** | | | | | | | | | |
| alpha-BHC | --- U | 0.002 | ug/L | | | | | | |
| alpha-BHC [2C] | --- U | 0.002 | ug/L | | | | | | |
| gamma-BHC (Lindane) | --- U | 0.002 | ug/L | | | | | | |
| gamma-BHC (Lindane) [2C] | --- U | 0.002 | ug/L | | | | | | |
| beta-BHC | --- U | 0.002 | ug/L | | | | | | |
| beta-BHC [2C] | --- U | 0.002 | ug/L | | | | | | |
| delta-BHC | --- U | 0.002 | ug/L | | | | | | |
| delta-BHC [2C] | --- U | 0.002 | ug/L | | | | | | |
| Heptachlor | --- U | 0.002 | ug/L | | | | | | |
| Heptachlor [2C] | --- U | 0.002 | ug/L | | | | | | |
| Aldrin | --- U | 0.002 | ug/L | | | | | | |
| Aldrin [2C] | --- U | 0.002 | ug/L | | | | | | |
| Heptachlor epoxide | --- U | 0.002 | ug/L | | | | | | |
| Heptachlor epoxide [2C] | --- U | 0.002 | ug/L | | | | | | |
| gamma-Chlordane | --- U | 0.002 | ug/L | | | | | | |
| gamma-Chlordane [2C] | --- U | 0.002 | ug/L | | | | | | |
| alpha-Chlordane | --- U | 0.002 | ug/L | | | | | | |
| alpha-Chlordane [2C] | --- U | 0.002 | ug/L | | | | | | |
| Endosulfan I | --- U | 0.002 | ug/L | | | | | | |
| Endosulfan I [2C] | --- U | 0.002 | ug/L | | | | | | |
| 4,4'-DDE | --- U | 0.005 | ug/L | | | | | | |
| 4,4'-DDE [2C] | --- U | 0.005 | ug/L | | | | | | |
| Dieldrin | --- U | 0.005 | ug/L | | | | | | |
| Dieldrin [2C] | --- U | 0.005 | ug/L | | | | | | |
| Endrin | --- U | 0.005 | ug/L | | | | | | |
| Endrin [2C] | --- U | 0.005 | ug/L | | | | | | |
| 4,4'-DDD | --- U | 0.005 | ug/L | | | | | | |
| 4,4'-DDD [2C] | --- U | 0.005 | ug/L | | | | | | |
| Endosulfan II | --- U | 0.005 | ug/L | | | | | | |
| Endosulfan II [2C] | --- U | 0.005 | ug/L | | | | | | |
| 4,4'-DDT | --- U | 0.005 | ug/L | | | | | | |
| 4,4'-DDT [2C] | --- U | 0.005 | ug/L | | | | | | |
| Endrin aldehyde | --- U | 0.005 | ug/L | | | | | | |
| Endrin aldehyde [2C] | --- U | 0.005 | ug/L | | | | | | |
| Methoxychlor | --- U | 0.025 | ug/L | | | | | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **Blank (B209103-BLK1)** | | | | | | | | | |
| Methoxychlor [2C] | --- U | 0.025 | ug/L | | | | | | |
| Endosulfan sulfate | --- U | 0.005 | ug/L | | | | | | |
| Endosulfan sulfate [2C] | --- U | 0.005 | ug/L | | | | | | |
| Endrin ketone | --- U | 0.005 | ug/L | | | | | | |
| Endrin ketone [2C] | --- U | 0.005 | ug/L | | | | | | |
| Toxaphene | --- U | 0.188 | ug/L | | | | | | |
| Toxaphene [2C] | --- U | 0.188 | ug/L | | | | | | |
| Chlordane | --- U | 0.062 | ug/L | | | | | | |
| Chlordane [2C] | --- U | 0.062 | ug/L | | | | | | |
| tech-Chlordane | --- U | 0.062 | ug/L | | | | | | |
| tech-Chlordane [2C] | --- U | 0.062 | ug/L | | | | | | |
| Aroclor 1016 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1016 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1221 | --- U | 0.062 | ug/L | | | | | | |
| Aroclor 1221 [2C] | --- U | 0.062 | ug/L | | | | | | |
| Aroclor 1232 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1232 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1242 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1242 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1248 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1248 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1254 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1254 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1260 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1260 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1262 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1262 [2C] | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1268 | --- U | 0.031 | ug/L | | | | | | |
| Aroclor 1268 [2C] | --- U | 0.031 | ug/L | | | | | | |
| *Surrogate: TCMX* | *0.0358* | | ug/L | *0.06000* | | *59.7* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0358* | | ug/L | *0.06000* | | *59.6* | *23-101* | | |
| *Surrogate: DCB* | *0.0365* | | ug/L | *0.06000* | | *60.8* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0344* | | ug/L | *0.06000* | | *57.3* | *25-107* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **LCS (B209103-BS1)** | | | | | | | | | |
| alpha-BHC | 0.02 | 0.002 | ug/L | 0.02000 | | 83.2 | 37-140 | | |
| alpha-BHC [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 83.8 | 37-140 | | |
| gamma-BHC (Lindane) | 0.02 | 0.002 | ug/L | 0.02000 | | 88.9 | 32-140 | | |
| gamma-BHC (Lindane) [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 83.4 | 32-140 | | |
| beta-BHC | 0.02 | 0.002 | ug/L | 0.02000 | | 77.9 | 17-147 | | |
| beta-BHC [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 77.3 | 17-147 | | |
| delta-BHC | 0.02 | 0.002 | ug/L | 0.02000 | | 99.8 | 19-140 | | |
| delta-BHC [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 93.6 | 19-140 | | |
| Heptachlor | 0.01 | 0.002 | ug/L | 0.02000 | | 65.2 | 34-140 | | |
| Heptachlor [2C] | 0.01 | 0.002 | ug/L | 0.02000 | | 65.9 | 34-140 | | |
| Aldrin | 0.02 | 0.002 | ug/L | 0.02000 | | 93.4 | 42-140 | | |
| Aldrin [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 89.1 | 42-140 | | |
| Heptachlor epoxide | 0.02 | 0.002 | ug/L | 0.02000 | | 92.6 | 37-142 | | |
| Heptachlor epoxide [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 87.7 | 37-142 | | |
| Endosulfan I | 0.02 | 0.002 | ug/L | 0.02000 | | 88.9 | 45-153 | | |
| Endosulfan I [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 90.6 | 45-153 | | |
| 4,4'-DDE | 0.04 | 0.005 | ug/L | 0.04000 | | 104 | 30-145 | | |
| 4,4'-DDE [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 100 | 30-145 | | |
| Dieldrin | 0.04 | 0.005 | ug/L | 0.04000 | | 102 | 36-146 | | |
| Dieldrin [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 97.2 | 36-146 | | |
| Endrin | 0.04 | 0.005 | ug/L | 0.04000 | | 110 | 30-147 | | |
| Endrin [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 99.9 | 30-147 | | |
| 4,4'-DDD | 0.04 | 0.005 | ug/L | 0.04000 | | 102 | 31-141 | | |
| 4,4'-DDD [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 98.1 | 31-141 | | |
| Endosulfan II | 0.04 | 0.005 | ug/L | 0.04000 | | 96.2 | 50-202 | | |
| Endosulfan II [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 91.4 | 50-202 | | |
| 4,4'-DDT | 0.04 | 0.005 | ug/L | 0.04000 | | 108 | 25-160 | | |
| 4,4'-DDT [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 103 | 25-160 | | |
| Endrin aldehyde | 0.04 | 0.005 | ug/L | 0.04000 | | 93.4 | 10-154 | | |
| Endrin aldehyde [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 92.1 | 10-154 | | |
| Endosulfan sulfate | 0.04 | 0.005 | ug/L | 0.04000 | | 107 | 26-144 | | |
| Endosulfan sulfate [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 101 | 26-144 | | |
| *Surrogate: TCMX* | *0.0415* | | ug/L | *0.06000* | | *69.1* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0410* | | ug/L | *0.06000* | | *68.4* | *23-101* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **LCS (B209103-BS1)** | | | | | | | | | |
| *Surrogate: DCB* | *0.0386* | | ug/L | *0.06000* | | *64.3* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0361* | | ug/L | *0.06000* | | *60.2* | *25-107* | | |
| **LCS (B209103-BS2)** | | | | | | | | | |
| Aroclor 1016 | 0.25 | 0.031 | ug/L | 0.2500 | | 99.4 | 50-140 | | |
| Aroclor 1016 [2C] | 0.20 | 0.031 | ug/L | 0.2500 | | 81.8 | 50-140 | | |
| Aroclor 1260 | 0.22 | 0.031 | ug/L | 0.2500 | | 88.6 | 8-140 | | |
| Aroclor 1260 [2C] | 0.20 | 0.031 | ug/L | 0.2500 | | 81.4 | 8-140 | | |
| *Surrogate: TCMX* | *0.0421* | | ug/L | *0.06000* | | *70.2* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0409* | | ug/L | *0.06000* | | *68.2* | *23-101* | | |
| *Surrogate: DCB* | *0.0311* | | ug/L | *0.06000* | | *51.8* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0298* | | ug/L | *0.06000* | | *49.7* | *25-107* | | |
| **LCS Dup (B209103-BSD1)** | | | | | | | | | |
| alpha-BHC | 0.02 | 0.002 | ug/L | 0.02000 | | 77.4 | 37-140 | 7.18 | 36 |
| alpha-BHC [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 78.5 | 37-140 | 6.54 | 36 |
| gamma-BHC (Lindane) | 0.02 | 0.002 | ug/L | 0.02000 | | 86.7 | 32-140 | 2.49 | 39 |
| gamma-BHC (Lindane) [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 77.7 | 32-140 | 7.16 | 39 |
| beta-BHC | 0.01 | 0.002 | ug/L | 0.02000 | | 73.8 | 17-147 | 5.38 | 44 |
| beta-BHC [2C] | 0.01 | 0.002 | ug/L | 0.02000 | | 74.9 | 17-147 | 3.24 | 44 |
| delta-BHC | 0.02 | 0.002 | ug/L | 0.02000 | | 96.7 | 19-140 | 3.11 | 52 |
| delta-BHC [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 87.1 | 19-140 | 7.21 | 52 |
| Heptachlor | 0.01 | 0.002 | ug/L | 0.02000 | | 70.1 | 34-140 | 7.21 | 43 |
| Heptachlor [2C] | 0.01 | 0.002 | ug/L | 0.02000 | | 59.7 | 34-140 | 9.90 | 43 |
| Aldrin | 0.02 | 0.002 | ug/L | 0.02000 | | 87.1 | 42-140 | 7.07 | 35 |
| Aldrin [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 85.8 | 42-140 | 3.74 | 35 |
| Heptachlor epoxide | 0.02 | 0.002 | ug/L | 0.02000 | | 92.9 | 37-142 | 0.399 | 26 |
| Heptachlor epoxide [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 83.0 | 37-142 | 5.46 | 26 |
| Endosulfan I | 0.02 | 0.002 | ug/L | 0.02000 | | 89.2 | 45-153 | 0.359 | 28 |
| Endosulfan I [2C] | 0.02 | 0.002 | ug/L | 0.02000 | | 85.8 | 45-153 | 5.39 | 28 |
| 4,4'-DDE | 0.04 | 0.005 | ug/L | 0.04000 | | 102 | 30-145 | 1.68 | 35 |
| 4,4'-DDE [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 95.4 | 30-145 | 4.67 | 35 |
| Dieldrin | 0.04 | 0.005 | ug/L | 0.04000 | | 101 | 36-146 | 1.28 | 49 |
| Dieldrin [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 92.5 | 36-146 | 5.00 | 49 |
| Endrin | 0.04 | 0.005 | ug/L | 0.04000 | | 110 | 30-147 | 0.173 | 48 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **LCS Dup (B209103-BSD1)** | | | | | | | | | |
| Endrin [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 96.0 | 30-147 | 3.95 | 48 |
| 4,4'-DDD | 0.04 | 0.005 | ug/L | 0.04000 | | 100 | 31-141 | 1.14 | 39 |
| 4,4'-DDD [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 93.3 | 31-141 | 5.09 | 39 |
| Endosulfan II | 0.04 | 0.005 | ug/L | 0.04000 | | 95.4 | 50-202 | 0.890 | 53 |
| Endosulfan II [2C] | 0.03 | 0.005 | ug/L | 0.04000 | | 87.1 | 50-202 | 4.82 | 53 |
| 4,4'-DDT | 0.04 | 0.005 | ug/L | 0.04000 | | 107 | 25-160 | 1.11 | 42 |
| 4,4'-DDT [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 98.0 | 25-160 | 5.37 | 42 |
| Endrin aldehyde | 0.04 | 0.005 | ug/L | 0.04000 | | 96.5 | 10-154 | 3.26 | 30 |
| Endrin aldehyde [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 88.1 | 10-154 | 4.38 | 30 |
| Endosulfan sulfate | 0.04 | 0.005 | ug/L | 0.04000 | | 105 | 26-144 | 2.44 | 38 |
| Endosulfan sulfate [2C] | 0.04 | 0.005 | ug/L | 0.04000 | | 96.7 | 26-144 | 4.80 | 38 |
| *Surrogate: TCMX* | *0.0402* | | ug/L | *0.06000* | | *67.0* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0378* | | ug/L | *0.06000* | | *63.1* | *23-101* | | |
| *Surrogate: DCB* | *0.0375* | | ug/L | *0.06000* | | *62.4* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0353* | | ug/L | *0.06000* | | *58.8* | *25-107* | | |
| **LCS Dup (B209103-BSD2)** | | | | | | | | | |
| Aroclor 1016 | 0.26 | 0.031 | ug/L | 0.2500 | | 105 | 50-140 | 5.30 | 36 |
| Aroclor 1016 [2C] | 0.20 | 0.031 | ug/L | 0.2500 | | 78.8 | 50-140 | 3.74 | 36 |
| Aroclor 1260 | 0.23 | 0.031 | ug/L | 0.2500 | | 91.0 | 8-140 | 2.62 | 38 |
| Aroclor 1260 [2C] | 0.20 | 0.031 | ug/L | 0.2500 | | 81.1 | 8-140 | 0.318 | 38 |
| *Surrogate: TCMX* | *0.0397* | | ug/L | *0.06000* | | *66.1* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0383* | | ug/L | *0.06000* | | *63.9* | *23-101* | | |
| *Surrogate: DCB* | *0.0319* | | ug/L | *0.06000* | | *53.1* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0308* | | ug/L | *0.06000* | | *51.4* | *25-107* | | |
| **Matrix Spike (B209103-MS1)** | **Source: 2209015-02** | | | | | | | | |
| alpha-BHC | 0.03 | 0.003 | ug/L | 0.02041 | ND | 165 | 37-140 | | |
| alpha-BHC [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 56.1 | 37-140 | | |
| gamma-BHC (Lindane) | 0.01 | 0.003 | ug/L | 0.02041 | ND | 66.7 | 32-140 | | |
| gamma-BHC (Lindane) [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 53.6 | 32-140 | | |
| beta-BHC | 0.02 | 0.003 | ug/L | 0.02041 | ND | 74.7 | 17-147 | | |
| beta-BHC [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 66.8 | 17-147 | | |
| delta-BHC | 0.01 | 0.003 | ug/L | 0.02041 | ND | 65.4 | 19-140 | | |
| delta-BHC [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 56.6 | 19-140 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **Matrix Spike (B209103-MS1)** | **Source: 2209015-02** | | | | | | | | |
| Heptachlor | --- U | 0.003 | ug/L | 0.02041 | ND | | 34-140 | | |
| Heptachlor [2C] | 0.009 | 0.003 | ug/L | 0.02041 | ND | 46.5 | 34-140 | | |
| Aldrin | 0.01 | 0.003 | ug/L | 0.02041 | ND | 65.8 | 42-140 | | |
| Aldrin [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 53.4 | 42-140 | | |
| Heptachlor epoxide | 0.01 | 0.003 | ug/L | 0.02041 | ND | 60.9 | 37-142 | | |
| Heptachlor epoxide [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 60.8 | 37-142 | | |
| Endosulfan I | 0.01 | 0.003 | ug/L | 0.02041 | ND | 65.2 | 45-153 | | |
| Endosulfan I [2C] | 0.01 | 0.003 | ug/L | 0.02041 | ND | 51.5 | 45-153 | | |
| 4,4'-DDE | 0.02 | 0.005 | ug/L | 0.04082 | ND | 60.2 | 30-145 | | |
| 4,4'-DDE [2C] | 0.02 | 0.005 | ug/L | 0.04082 | ND | 59.2 | 30-145 | | |
| Dieldrin | 0.03 | 0.005 | ug/L | 0.04082 | ND | 64.8 | 36-146 | | |
| Dieldrin [2C] | 0.03 | 0.005 | ug/L | 0.04082 | ND | 65.6 | 36-146 | | |
| Endrin | 0.03 | 0.005 | ug/L | 0.04082 | ND | 74.0 | 30-147 | | |
| Endrin [2C] | 0.03 | 0.005 | ug/L | 0.04082 | ND | 64.5 | 30-147 | | |
| 4,4'-DDD | 0.03 | 0.005 | ug/L | 0.04082 | ND | 65.7 | 31-141 | | |
| 4,4'-DDD [2C] | 0.02 | 0.005 | ug/L | 0.04082 | ND | 57.7 | 31-141 | | |
| Endosulfan II | 0.03 | 0.005 | ug/L | 0.04082 | ND | 65.2 | 50-202 | | |
| Endosulfan II [2C] | 0.02 | 0.005 | ug/L | 0.04082 | ND | 53.3 | 50-202 | | |
| 4,4'-DDT | 0.03 | 0.005 | ug/L | 0.04082 | ND | 61.8 | 25-160 | | |
| 4,4'-DDT [2C] | 0.03 | 0.005 | ug/L | 0.04082 | ND | 78.3 | 25-160 | | |
| Endrin aldehyde | 0.03 | 0.005 | ug/L | 0.04082 | ND | 68.6 | 10-154 | | |
| Endrin aldehyde [2C] | 0.03 | 0.005 | ug/L | 0.04082 | ND | 64.3 | 10-154 | | |
| Endosulfan sulfate | 0.03 | 0.005 | ug/L | 0.04082 | ND | 71.5 | 26-144 | | |
| Endosulfan sulfate [2C] | 0.03 | 0.005 | ug/L | 0.04082 | ND | 71.7 | 26-144 | | |
| *Surrogate: TCMX* | *0.0322* | | ug/L | *0.06122* | | *52.7* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0278* | | ug/L | *0.06122* | | *45.5* | *23-101* | | |
| *Surrogate: DCB* | *0.0403* | | ug/L | *0.06122* | | *65.8* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0378* | | ug/L | *0.06122* | | *61.7* | *25-107* | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Pest/PCBs GC - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209103** | | | | | | | | | |
| **Matrix Spike (B209103-MS2)** | | **Source: 2209015-02** | | | | | | | |
| Aroclor 1016 | 0.26 | 0.030 | ug/L | 0.2439 | ND | 107 | 50-140 | | |
| Aroclor 1016 [2C] | 0.21 | 0.030 | ug/L | 0.2439 | ND | 87.2 | 50-140 | | |
| Aroclor 1260 | 0.26 | 0.030 | ug/L | 0.2439 | ND | 105 | 8-140 | | |
| Aroclor 1260 [2C] | 0.24 | 0.030 | ug/L | 0.2439 | ND | 96.8 | 8-140 | | |
| *Surrogate: TCMX* | *0.0397* | | ug/L | *0.05854* | | *67.9* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0355* | | ug/L | *0.05854* | | *60.6* | *23-101* | | |
| *Surrogate: DCB* | *0.0445* | | ug/L | *0.05854* | | *75.9* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0431* | | ug/L | *0.05854* | | *73.7* | *25-107* | | |
| **Matrix Spike Dup (B209103-MSD2)** | | **Source: 2209015-02** | | | | | | | |
| Aroclor 1016 | 0.26 | 0.031 | ug/L | 0.2451 | ND | 105 | 50-140 | 1.85 | 36 |
| Aroclor 1016 [2C] | 0.26 | 0.031 | ug/L | 0.2451 | ND | 106 | 50-140 | 19.7 | 36 |
| Aroclor 1260 | 0.24 | 0.031 | ug/L | 0.2451 | ND | 97.2 | 8-140 | 8.04 | 38 |
| Aroclor 1260 [2C] | 0.22 | 0.031 | ug/L | 0.2451 | ND | 89.0 | 8-140 | 8.49 | 38 |
| *Surrogate: TCMX* | *0.0384* | | ug/L | *0.05882* | | *65.3* | *23-101* | | |
| *Surrogate: TCMX [2C]* | *0.0334* | | ug/L | *0.05882* | | *56.8* | *23-101* | | |
| *Surrogate: DCB* | *0.0423* | | ug/L | *0.05882* | | *71.9* | *25-107* | | |
| *Surrogate: DCB [2C]* | *0.0397* | | ug/L | *0.05882* | | *67.5* | *25-107* | | |
| **Batch S209042** | | | | | | | | | |
| **Performance Mix (S209042-PEM1)** | | | | | | | | | |
| 4,4'-DDE | 1.03 | | ug/L | | | | 0-200 | | |
| 4,4'-DDE [2C] | 1.37 | | ug/L | | | | 0-200 | | |
| Endrin | 113 | | ug/L | 100.0 | | 113 | 0-200 | | |
| Endrin [2C] | 120 | | ug/L | 100.0 | | 120 | 0-200 | | |
| 4,4'-DDD | 3.75 | | ug/L | | | | 0-200 | | |
| 4,4'-DDD [2C] | 3.14 | | ug/L | | | | 0-200 | | |
| 4,4'-DDT | 115 | | ug/L | 100.0 | | 115 | 0-200 | | |
| 4,4'-DDT [2C] | 119 | | ug/L | 100.0 | | 119 | 0-200 | | |
| Endrin aldehyde | 3.61 | | ug/L | | | | 0-200 | | |
| Endrin aldehyde [2C] | 1.29 | | ug/L | | | | 0-200 | | |
| Endrin ketone | 6.93 | | ug/L | | | | 0-200 | | |
| Endrin ketone [2C] | 4.18 | | ug/L | | | | 0-200 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## GC - Sanitary - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209121** | | | | | | | | | |
| **Blank (B209121-BLK1)** | | | | | | | | | |
| Oil & Grease | --- U | 5.00 | mg/L | | | | | | |
| **LCS (B209121-BS1)** | | | | | | | | | |
| Oil & Grease | 34.4 | 5.00 | mg/L | 40.00 | | 86 | 78-114 | | |
| **LCS Dup (B209121-BSD1)** | | | | | | | | | |
| Oil & Grease | 37.3 | 5.00 | mg/L | 40.00 | | 93 | 78-114 | 8 | 20 |
| **Matrix Spike (B209121-MS1)** | **Source: 2209013-02** | | | | | | | | |
| Oil & Grease | 41.8 | 5.00 | mg/L | 51.28 | ND | 82 | 78-114 | | |
| **Matrix Spike (B209121-MS2)** | **Source: 2209014-01** | | | | | | | | |
| Oil & Grease | 42.2 | 5.00 | mg/L | 51.28 | ND | 82 | 78-114 | | |
| **Matrix Spike (B209121-MS3)** | **Source: 2209015-04** | | | | | | | | |
| Oil & Grease | 39.1 | 5.00 | mg/L | 45.98 | ND | 85 | 78-114 | | |
| **Matrix Spike (B209121-MS4)** | **Source: 2209016-02** | | | | | | | | |
| Oil & Grease | 42.2 | 5.00 | mg/L | 48.78 | ND | 87 | 78-114 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Metals ICP - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209117** | | | | | | | | | |
| **Blank (B209117-BLK1)** | | | | | | | | | |
| Antimony | --- U | 20.0 | ug/L | | | | | | |
| Arsenic | --- U | 8.00 | ug/L | | | | | | |
| Beryllium | --- U | 3.00 | ug/L | | | | | | |
| Cadmium | --- U | 3.00 | ug/L | | | | | | |
| Chromium | --- U | 5.00 | ug/L | | | | | | |
| Copper | --- U | 10.0 | ug/L | | | | | | |
| Iron | --- U | 50.0 | ug/L | | | | | | |
| Lead | --- U | 8.00 | ug/L | | | | | | |
| Nickel | --- U | 20.0 | ug/L | | | | | | |
| Selenium | --- U | 20.0 | ug/L | | | | | | |
| Silver | --- U | 5.00 | ug/L | | | | | | |
| Thallium | --- U | 20.0 | ug/L | | | | | | |
| Zinc | --- U | 20.0 | ug/L | | | | | | |
| **LCS (B209117-BS1)** | | | | | | | | | |
| Antimony | 188 | 20.0 | ug/L | 200.0 | | 94.2 | 85-115 | | |
| Arsenic | 185 | 8.00 | ug/L | 200.0 | | 92.7 | 85-115 | | |
| Beryllium | 190 | 3.00 | ug/L | 200.0 | | 95.1 | 85-115 | | |
| Cadmium | 190 | 3.00 | ug/L | 200.0 | | 95.0 | 85-115 | | |
| Chromium | 192 | 5.00 | ug/L | 200.0 | | 95.9 | 85-115 | | |
| Copper | 190 | 10.0 | ug/L | 200.0 | | 94.9 | 85-115 | | |
| Iron | 4770 | 50.0 | ug/L | 5000 | | 95.5 | 85-115 | | |
| Lead | 191 | 8.00 | ug/L | 200.0 | | 95.6 | 85-115 | | |
| Nickel | 191 | 20.0 | ug/L | 200.0 | | 95.5 | 85-115 | | |
| Selenium | 183 | 20.0 | ug/L | 200.0 | | 91.4 | 85-115 | | |
| Silver | 191 | 5.00 | ug/L | 200.0 | | 95.4 | 85-115 | | |
| Thallium | 187 | 20.0 | ug/L | 200.0 | | 93.6 | 85-115 | | |
| Zinc | 188 | 20.0 | ug/L | 200.0 | | 94.2 | 85-115 | | |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Metals ICP - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209117** | | | | | | | | | |
| **LCS Dup (B209117-BSD1)** | | | | | | | | | |
| Antimony | 191 | 20.0 | ug/L | 200.0 | | 95.3 | 85-115 | 1.17 | 20 |
| Arsenic | 186 | 8.00 | ug/L | 200.0 | | 93.2 | 85-115 | 0.527 | 20 |
| Beryllium | 196 | 3.00 | ug/L | 200.0 | | 98.1 | 85-115 | 3.12 | 20 |
| Cadmium | 192 | 3.00 | ug/L | 200.0 | | 95.8 | 85-115 | 0.755 | 20 |
| Chromium | 194 | 5.00 | ug/L | 200.0 | | 96.8 | 85-115 | 0.944 | 20 |
| Copper | 192 | 10.0 | ug/L | 200.0 | | 95.9 | 85-115 | 1.05 | 20 |
| Iron | 4920 | 50.0 | ug/L | 5000 | | 98.5 | 85-115 | 3.12 | 20 |
| Lead | 194 | 8.00 | ug/L | 200.0 | | 96.9 | 85-115 | 1.29 | 20 |
| Nickel | 192 | 20.0 | ug/L | 200.0 | | 96.1 | 85-115 | 0.668 | 20 |
| Selenium | 188 | 20.0 | ug/L | 200.0 | | 94.1 | 85-115 | 2.90 | 20 |
| Silver | 192 | 5.00 | ug/L | 200.0 | | 96.1 | 85-115 | 0.783 | 20 |
| Thallium | 190 | 20.0 | ug/L | 200.0 | | 94.8 | 85-115 | 1.37 | 20 |
| Zinc | 190 | 20.0 | ug/L | 200.0 | | 95.0 | 85-115 | 0.830 | 20 |
| **Matrix Spike (B209117-MS1)** | **Source: 2209013-02** | | | | | | | | |
| Cadmium | 166 | 3.00 | ug/L | 200.0 | ND | 82.8 | 80-120 | | |
| Lead | 175 | 8.00 | ug/L | 200.0 | 2.40 | 86.4 | 80-120 | | |
| Nickel | 193 | 20.0 | ug/L | 200.0 | 19.0 | 87.2 | 80-120 | | |
| Thallium | 169 | 20.0 | ug/L | 200.0 | 7.03 | 81.1 | 80-120 | | |
| **Matrix Spike (B209117-MS2)** | **Source: 2209014-01** | | | | | | | | |
| Arsenic | 196 | 8.00 | ug/L | 200.0 | 3.57 | 96.0 | 80-120 | | |
| Cadmium | 178 | 3.00 | ug/L | 200.0 | ND | 88.8 | 80-120 | | |
| Copper | 213 | 10.0 | ug/L | 200.0 | 3.06 | 105 | 80-120 | | |
| Nickel | 188 | 20.0 | ug/L | 200.0 | 8.85 | 89.6 | 80-120 | | |
| Silver | 201 | 5.00 | ug/L | 200.0 | ND | 101 | 80-120 | | |
| Thallium | 170 | 20.0 | ug/L | 200.0 | 7.07 | 81.4 | 80-120 | | |



NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Metals ICP - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209117** | | | | | | | | | |
| **Matrix Spike (B209117-MS3)** | **Source: 2209015-01** | | | | | | | | |
| Copper | 289 | 10.0 | ug/L | 200.0 | ND | 145 | 80-120 | | |
| Zinc | 146 | 20.0 | ug/L | 200.0 | ND | 72.9 | 80-120 | | |
| **Matrix Spike (B209117-MS4)** | **Source: 2209016-01** | | | | | | | | |
| Zinc | 137 | 20.0 | ug/L | 200.0 | 1.99 | 67.5 | 80-120 | | |
| **Matrix Spike Dup (B209117-MSD1)** | **Source: 2209013-02** | | | | | | | | |
| Cadmium | 184 | 15.0 | ug/L | 200.0 | ND | 91.9 | 80-120 | 10.4 | 10 |
| Lead | 194 | 40.0 | ug/L | 200.0 | ND | 97.1 | 80-120 | 10.3 | 10 |
| Nickel | 216 | 100 | ug/L | 200.0 | 19.0 | 98.8 | 80-120 | 11.3 | 10 |
| Thallium | 200 | 100 | ug/L | 200.0 | ND | 99.8 | 80-120 | 16.5 | 10 |
| **Matrix Spike Dup (B209117-MSD2)** | **Source: 2209014-01** | | | | | | | | |
| Arsenic | 187 | 40.0 | ug/L | 200.0 | ND | 93.4 | 80-120 | 4.55 | 10 |
| Cadmium | 183 | 15.0 | ug/L | 200.0 | ND | 91.4 | 80-120 | 2.84 | 10 |
| Copper | 204 | 50.0 | ug/L | 200.0 | ND | 102 | 80-120 | 4.63 | 10 |
| Nickel | 190 | 100 | ug/L | 200.0 | ND | 95.0 | 80-120 | 1.08 | 10 |
| Silver | 187 | 25.0 | ug/L | 200.0 | ND | 93.4 | 80-120 | 7.48 | 10 |
| Thallium | 198 | 100 | ug/L | 200.0 | ND | 98.8 | 80-120 | 15.1 | 10 |
| **Matrix Spike Dup (B209117-MSD3)** | **Source: 2209015-01** | | | | | | | | |
| Copper | 248 | 50.0 | ug/L | 200.0 | ND | 124 | 80-120 | 15.4 | 10 |
| Zinc | 190 | 100 | ug/L | 200.0 | ND | 94.8 | 80-120 | 26.2 | 10 |
| **Matrix Spike Dup (B209117-MSD4)** | **Source: 2209016-01** | | | | | | | | |
| Zinc | 182 | 100 | ug/L | 200.0 | ND | 91.0 | 80-120 | 28.3 | 10 |

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Mercury CVAA - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209126** | | | | | | | | | |
| **Blank (B209126-BLK1)** | | | | | | | | | |
| Mercury | --- U | 0.050 | ug/L | | | | | | |
| **LCS (B209126-BS1)** | | | | | | | | | |
| Mercury | 0.952 | 0.050 | ug/L | 1.000 | | 95.2 | 85-115 | | |
| **LCS Dup (B209126-BSD1)** | | | | | | | | | |
| Mercury | 0.953 | 0.050 | ug/L | 1.000 | | 95.3 | 85-115 | 0.105 | 20 |
| **Matrix Spike (B209126-MS1)** | **Source: 2209015-02** | | | | | | | | |
| Mercury | 0.957 | 0.050 | ug/L | 1.000 | ND | 95.7 | 80-120 | | |



NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

# Final Report

## Project: PREPA South Coast Power Plant - 2209015

## Project Number: 2209015

## Sanitary - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| **Batch B209094** | | | | | | | | | |
| **Blank (B209094-BLK1)** | | | | | | | | | |
| Color | <5 | 5.00 | Color Units | | | | | | |
| **LCS (B209094-BS1)** | | | | | | | | | |
| Color | 40.0 | 5.00 | Color Units | 40.00 | | 100 | 85-115 | | |
| **LCS Dup (B209094-BSD1)** | | | | | | | | | |
| Color | 40.0 | 5.00 | Color Units | 40.00 | | 100 | 85-115 | 0.00 | 20 |
| **Duplicate (B209094-DUP1)** | **Source: 2209015-01** | | | | | | | | |
| Color | <5 | 5.00 | Color Units | | <5 | | | | 20 |
| **Batch B209115** | | | | | | | | | |
| **Blank (B209115-BLK1)** | | | | | | | | | |
| Residue, Non-Filterable | --- U | 10.0 | mg/L | | | | | | |
| **LCS (B209115-BS1)** | | | | | | | | | |
| Residue, Non-Filterable | 52.0 | 10.0 | mg/L | 55.10 | | 94.4 | 85-115 | | |
| **LCS Dup (B209115-BSD1)** | | | | | | | | | |
| Residue, Non-Filterable | 54.0 | 10.0 | mg/L | 55.10 | | 98.0 | 85-115 | 3.77 | 20 |
| **Duplicate (B209115-DUP1)** | **Source: 2209013-02** | | | | | | | | |
| Residue, Non-Filterable | 3.00 | 10.0 | mg/L | | ND | | | | 20 |



NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted

# 8.0 Photographs

**Photo #1.** On-site and grab samples were collected from Outfall 001 monitoring location.

**Photo #2.** Samples were collected from Internal Outfall 001c monitoring location.

**Photo #3**. Samples were collected from Internal Outfall 001e monitoring location.


**Photo #4**. An on-site grab sample was collected from the intake structure for temperature.

**Photo #5**. Floating scum was observed in Outfall 001 canal prior to the monitoring location.

**Photo #6**. Solids were observed in the water column of Outfall 001 discharge.