



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 used 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 001 for 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 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

AERIAL PHOTO SOUTH COAST POWER PLANT



South Coast Power Plant

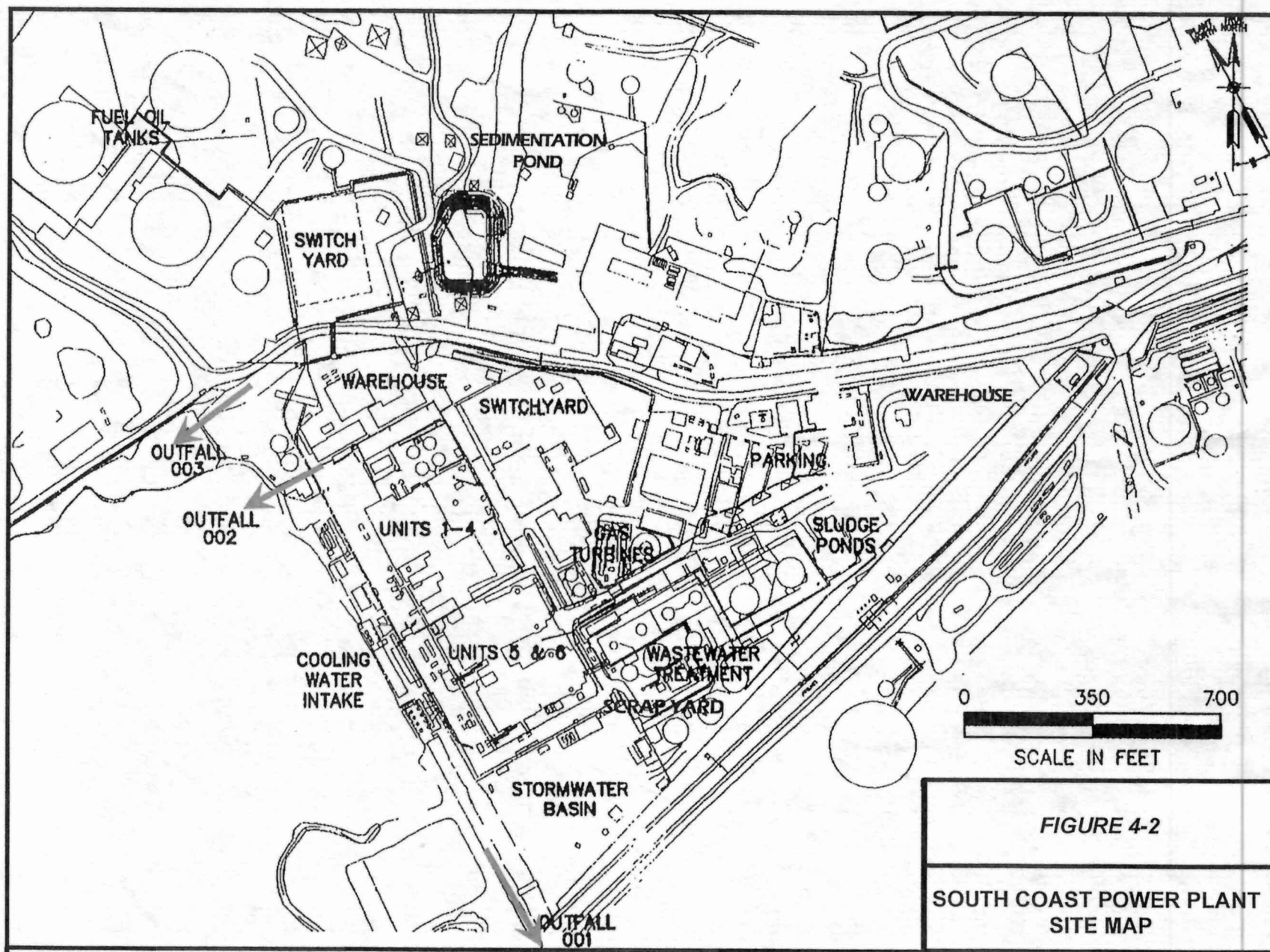
September 14, 2022

[illegible]

Apartado 364267 San Juan, Puerto Rico 00936-4267

"Somos un patrono con igualdad de oportunidades en el empleo y no discriminamos por razón de raza, color, sexo, edad, origen social o nacional, condición social, afiliación política, ideas políticas o religiosas; por ser víctima o ser percibida(o) como víctima de violencia doméstica, agresión sexual o acoso, sin importar estado civil, orientación sexual, identidad de género o estatus migratorio; por impedimento físico, mental o ambos, por condición de veterano(a) o por información genética."

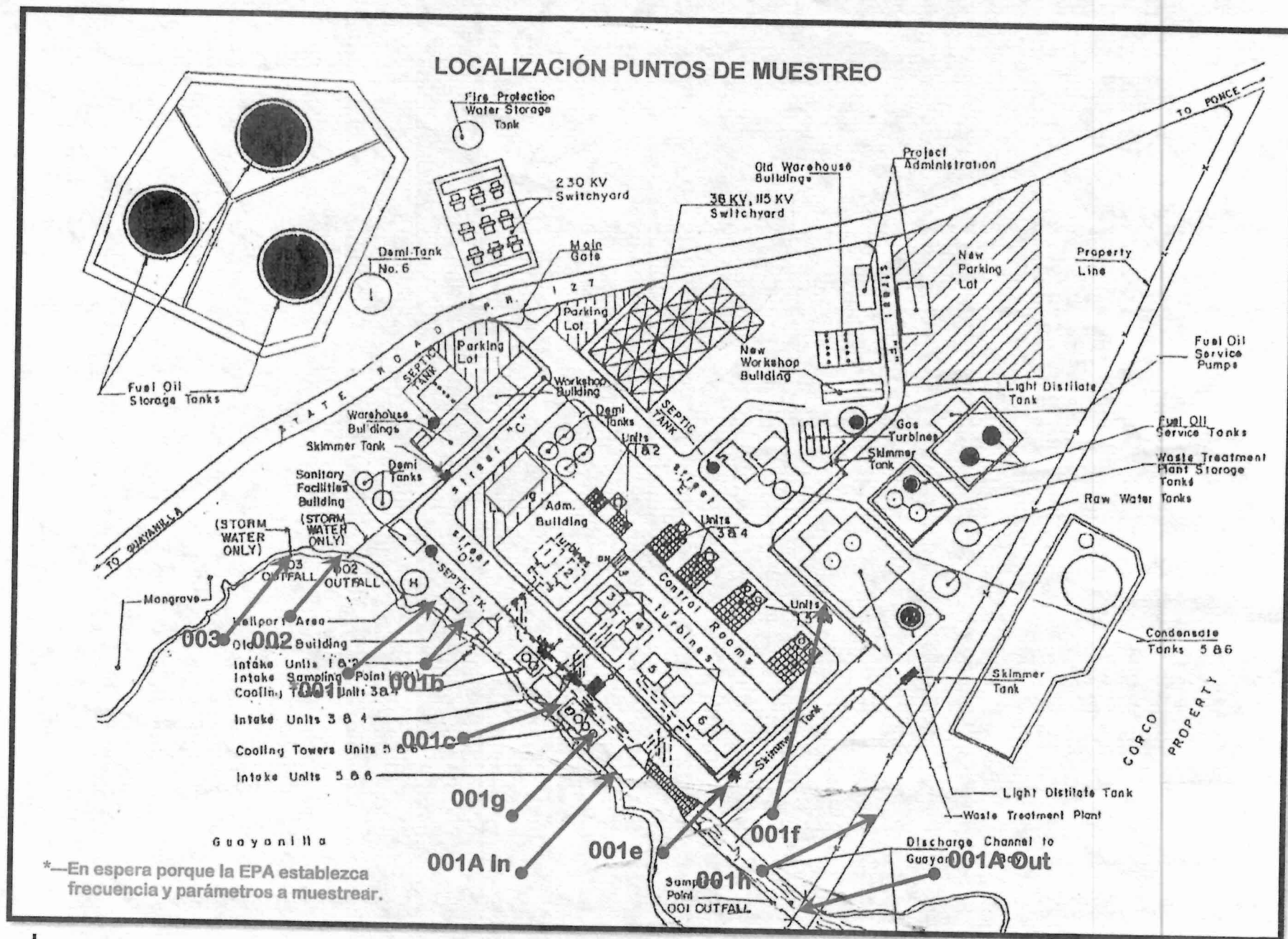
Attachment #3. An overview map shows the various operational areas within PREPA - South Coast Power Plant.



SOUTH COAST BEST MANAGEMENT PRACTICES PLAN

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

PROTOCOLO DE MUESTREO Y ANÁLISIS NPDES Y TRI



CHAIN OF CUSTODY/ FIELD DATA FORM

SURVEY NAME & LOCALITY PREPA-South Coast Power PlantPROJECT LEADER Thuan TranPROGRAM: 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

C215

B224

A305

L306

B253

Permit #: PR0000698

LAB ID/ FIELD ID

OF
CONTAINERS

MATRIX

CHECK IF
SPLIT
SAMPLEDESCRIPTION & INSTRUCTIONS INCLUDING LOCATION,
ESTIMATED CONCENTRATIONS, SPECIAL REPORTING
LIMITS,Res CL
CheckedPreservative
(circle)Collection Time
(24hr clock)
//////////

Begin End

Collection
Date
mm/dd/yy

Outfall 001	4	B	☐	1, 125-ml plastic bottle: Color ***	☐	2209015-01	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 rec'd out of hold time. 9/16/22

9/16/22

Preservative Added & Checked

0=ice 7=FAS

1=H2SO4 pH<2 8=ZnAc

2=HNO3 pH<2 9=NaOH pH>12

3=HCl pH<2 10=NH4Cl

4=Na2S2O3

5=NaOH pH>9

6=Ascorbic Acid

Time

Date

Person Assuming Responsibility for Sample(s):
Thuan Tran

5:44PM

9/15/2022

Received By:

10:30

9/16/22

Received By:

Received By:

Matrix:

A=aqueous F=multiphasic

B=aqueous (chlorinated) G=solvent

C=soil H=biota

D=sediment I=oil

E=sludge J=other

Relinquished By:
Thuan Tran

Relinquished By:

Relinquished By:

Survey Complete? Y ☐ N ☐

Temp = 1.1°C on ice 9/16/22

US EPA REGION 2 LABORATORY
CHAIN OF CUSTODY/ FIELD DATA FORM

Page 2 of 2 pages

SURVEY NAME & LOCALITY PREPA-South Coast Power Plant

PROJECT LEADER Thuan Tran

PROGRAM: SF ☐ :

SITE ID _____

OPERABLE UNIT _____

PROGRAM RESULTS CODE _____

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

Permit #: <u>PR0000698</u>	CONTERS # OF	MATRIX	CHECK IF SPLIT SAMPLE	DESCRIPTION & INSTRUCTIONS INCLUDING LOCATION, ESTIMATED CONCENTRATIONS, SPECIAL REPORTING LIMITS,	Res CL Checked	Preservative (circle)	Collection Time (24hr clock) Begin End	Collection Date mm/dd/yy
LAB ID/ FIELD ID								
Internal Outfall 001e	3	B	☐	** 3, 1-L amber bottles: Pesticides*	☐	20 9/15-02 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 12345678910		
			☐		☐	0 12345678910		
			☐		☐	0 12345678910		
			☐		☐	0 12345678910		
			☐		☐	0 12345678910		
			☐	* Bottle 3 of 3 is rec'd broken (O&G)	☐	0 12345678910		
			☐	** bottle 1 of 3 is rec'd broken (P&G) (Pesticides)	☐	0 12345678910		

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

Matrix:		Person Assuming Responsibility for Sample(s):		Time	Date
A=aqueous	F=multiphasic	Relinquished By:	Thuan Tran	5:44pm	9/15/2022
B=aqueous (chlorinated)	G=solvent	Received By:		10:30	9/16/22
C=soil	H=biota	Relinquished By:			
D=sediment	I=oil	Received By:			
E=sludge	J=other	Relinquished By:			
Survey Complete? Y ☐ N ☐		Received By:			

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,

A handwritten signature in black ink, which appears to read "John R. Bourbon", is positioned above the typed name.

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.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Final Report

Project: PREPA South Coast Power Plant - 2209015

Project Number: 2209015

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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
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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
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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



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Project Number: 2209015

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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



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Project: PREPA South Coast Power Plant - 2209015

Project Number: 2209015

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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	



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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



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Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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
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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



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Project Number: 2209015

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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Field ID: Internal Outfall 001e

Sample ID: 2209015-02

Mercury CVAA

Mercury	---	U	0.050	ug/L	B209126
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Sanitary

Total Suspended Solids	---	U	10.0	mg/L	B209115
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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



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Project Number: 2209015

Analyte	Result	Qualifier	Reporting Limit	Units	Batch	Date and Time of Analysis*
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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
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Field ID: Outfall 001c - Comp.

Sample ID: 2209015-05

Sanitary

Total Suspended Solids	---	U	10.0	mg/L	B209115
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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		

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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		

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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-BS1)									
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		

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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		

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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		

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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					

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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		

U.S.E.P.A Region 2 Laboratory

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Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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		
<i>Surrogate: 2-Fluoroaniline</i>	<i>43.6</i>		<i>ug/L</i>	<i>50.00</i>		<i>87.2</i>	<i>60-140</i>		
<i>Surrogate: Phenol-D6</i>	<i>17.9</i>		<i>ug/L</i>	<i>50.00</i>		<i>35.8</i>	<i>60-140</i>		
<i>Surrogate: Naphthalene-D8</i>	<i>34.3</i>		<i>ug/L</i>	<i>50.00</i>		<i>68.7</i>	<i>60-140</i>		
<i>Surrogate: 1-Fluoronaphthalene</i>	<i>31.5</i>		<i>ug/L</i>	<i>50.00</i>		<i>62.9</i>	<i>60-140</i>		
<i>Surrogate: 2,4-Dibromophenol</i>	<i>38.6</i>		<i>ug/L</i>	<i>50.00</i>		<i>77.2</i>	<i>60-140</i>		
<i>Surrogate: Anthracene-D10</i>	<i>56.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>113</i>	<i>60-140</i>		
<i>Surrogate: Chrysene-D12</i>	<i>36.3</i>		<i>ug/L</i>	<i>50.00</i>		<i>72.6</i>	<i>60-140</i>		

LCS Dup (B209096-BS1)

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

U.S.E.P.A Region 2 Laboratory

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

Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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

U.S.E.P.A Region 2 Laboratory

NOTE: The results recorded in this report relate only to the samples as received on the date and at the time noted
 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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
<i>Surrogate: 2-Fluoroaniline</i>	<i>43.2</i>		<i>ug/L</i>	<i>50.00</i>		<i>86.5</i>	<i>60-140</i>		
<i>Surrogate: Phenol-D6</i>	<i>17.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>34.9</i>	<i>60-140</i>		
<i>Surrogate: Naphthalene-D8</i>	<i>35.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>70.8</i>	<i>60-140</i>		
<i>Surrogate: 1-Fluoronaphthalene</i>	<i>33.3</i>		<i>ug/L</i>	<i>50.00</i>		<i>66.6</i>	<i>60-140</i>		
<i>Surrogate: 2,4-Dibromophenol</i>	<i>40.7</i>		<i>ug/L</i>	<i>50.00</i>		<i>81.3</i>	<i>60-140</i>		
<i>Surrogate: Anthracene-D10</i>	<i>61.5</i>		<i>ug/L</i>	<i>50.00</i>		<i>123</i>	<i>60-140</i>		
<i>Surrogate: Chrysene-D12</i>	<i>39.1</i>		<i>ug/L</i>	<i>50.00</i>		<i>78.3</i>	<i>60-140</i>		

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		

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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		

U.S.E.P.A Region 2 Laboratory

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 Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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Batch B209096

Matrix Spike (B209096-MS1)

Source: 2209014-01

<i>Surrogate: Chrysene-D12</i>	38.5		ug/L	50.00		76.9	60-140		
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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		

U.S.E.P.A Region 2 Laboratory

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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		
<i>Surrogate: 2-Fluoroaniline</i>	<i>37.6</i>		<i>ug/L</i>	<i>50.00</i>		<i>75.3</i>	<i>60-140</i>		
<i>Surrogate: Phenol-D6</i>	<i>18.0</i>		<i>ug/L</i>	<i>50.00</i>		<i>35.9</i>	<i>60-140</i>		
<i>Surrogate: Naphthalene-D8</i>	<i>38.9</i>		<i>ug/L</i>	<i>50.00</i>		<i>77.7</i>	<i>60-140</i>		
<i>Surrogate: 1-Fluoronaphthalene</i>	<i>38.8</i>		<i>ug/L</i>	<i>50.00</i>		<i>77.5</i>	<i>60-140</i>		
<i>Surrogate: 2,4-Dibromophenol</i>	<i>41.3</i>		<i>ug/L</i>	<i>50.00</i>		<i>82.6</i>	<i>60-140</i>		
<i>Surrogate: Anthracene-D10</i>	<i>59.9</i>		<i>ug/L</i>	<i>50.00</i>		<i>120</i>	<i>60-140</i>		
<i>Surrogate: Chrysene-D12</i>	<i>38.2</i>		<i>ug/L</i>	<i>50.00</i>		<i>76.5</i>	<i>60-140</i>		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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

U.S.E.P.A Region 2 Laboratory

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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
<i>Surrogate: 2-Fluoroaniline</i>	<i>41.1</i>		ug/L	<i>50.00</i>		<i>82.2</i>	<i>60-140</i>		
<i>Surrogate: Phenol-D6</i>	<i>18.9</i>		ug/L	<i>50.00</i>		<i>37.8</i>	<i>60-140</i>		
<i>Surrogate: Naphthalene-D8</i>	<i>36.5</i>		ug/L	<i>50.00</i>		<i>73.0</i>	<i>60-140</i>		
<i>Surrogate: 1-Fluoronaphthalene</i>	<i>34.0</i>		ug/L	<i>50.00</i>		<i>68.0</i>	<i>60-140</i>		
<i>Surrogate: 2,4-Dibromophenol</i>	<i>39.4</i>		ug/L	<i>50.00</i>		<i>78.9</i>	<i>60-140</i>		
<i>Surrogate: Anthracene-D10</i>	<i>60.1</i>		ug/L	<i>50.00</i>		<i>120</i>	<i>60-140</i>		
<i>Surrogate: Chrysene-D12</i>	<i>36.9</i>		ug/L	<i>50.00</i>		<i>73.7</i>	<i>60-140</i>		

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

U.S.E.P.A Region 2 Laboratory

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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
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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

U.S.E.P.A Region 2 Laboratory

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Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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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
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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
<i>Surrogate: 2-Fluoroaniline</i>	<i>39.7</i>		<i>ug/L</i>	<i>50.51</i>		<i>78.6</i>	<i>60-140</i>		
<i>Surrogate: Phenol-D6</i>	<i>17.2</i>		<i>ug/L</i>	<i>50.51</i>		<i>34.1</i>	<i>60-140</i>		
<i>Surrogate: Naphthalene-D8</i>	<i>39.4</i>		<i>ug/L</i>	<i>50.51</i>		<i>78.0</i>	<i>60-140</i>		
<i>Surrogate: 1-Fluoronaphthalene</i>	<i>39.1</i>		<i>ug/L</i>	<i>50.51</i>		<i>77.4</i>	<i>60-140</i>		
<i>Surrogate: 2,4-Dibromophenol</i>	<i>42.1</i>		<i>ug/L</i>	<i>50.51</i>		<i>83.4</i>	<i>60-140</i>		
<i>Surrogate: Anthracene-D10</i>	<i>61.8</i>		<i>ug/L</i>	<i>50.51</i>		<i>122</i>	<i>60-140</i>		
<i>Surrogate: Chrysene-D12</i>	<i>38.8</i>		<i>ug/L</i>	<i>50.51</i>		<i>76.8</i>	<i>60-140</i>		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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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						

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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		



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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		

U.S.E.P.A Region 2 Laboratory

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Reported: 10/3/2022



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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
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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

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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
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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		

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

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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
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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		



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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
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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		



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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		



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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
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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



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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
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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		



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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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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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		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

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

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.

