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Organization:	PG&E Gateway Generating Station
Submitter Role:	Applicant Representative
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Pacific Gas and Electric Company®

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March 25, 2019

Mr. John Heiser
Compliance Project Manager
California Energy Commission
Siting, Transmission and Environmental Protection Division
1516 Ninth Street, MS-15
Sacramento, CA 95814

Reference: PG&E Gateway Generating Station (00-AFC-01C)

Subject: Annual Compliance Report for Reporting Period January 2018 to December 2018

Dear Mr. Heiser,

In compliance with the General Condition of Certification as set forth in the California Energy Commission's Final Decision for Pacific Gas and Electric Company Gateway Generating Station (GGS) pages 179-180, attached is the Annual Compliance Report for the reporting period January 2018 to December 2018.

Included in this report are documents specifically required by Conditions of Certification SOILS&WATER-10, SOILS&WATER-4, HAZ-1, and SOILS&WATER-3, BIO-2 to be submitted along with the Annual Compliance Report and are attached herewith as Exhibits 3, 4, 5, 6, and 7, respectively. Also included in this report are statements of compliance with Conditions of Certifications VIS-1, and VIS-4.

If you have any questions regarding this report, please contact Angel Espiritu at (925) 522-7838 or abe4@pge.com.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Enclosures

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Gateway Generating Station Project
(00-AFC-1C)

Annual Compliance Report No. 10

(Reporting Period: January 2018 - December 2018)

March 31, 2019

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Introduction

This document constitutes PG&E's Annual Compliance Report (ACR) for the Gateway Generating Station (GGS) Project. The information contained in this report covers the reporting period of January 2018 to December 2018 (RY 2018).

Compliance Activities

This section of the Annual Compliance Report focuses on PG&E's activities related to ensuring that compliance with all the Conditions of Certification, as specified in the California Energy Commission's Final Decision for the Gateway Generating Station Project, are achieved in a timely and satisfactory manner. The following information is provided per the requirements set forth on page 179 and 180 of the Final Decision, specifically General Conditions on Annual Compliance Report.

1. **Updated Compliance Matrix -** The compliance matrix has been updated for the reporting period to reflect the status of all conditions of certification. See matrix in **Exhibit 1**.

2. **Current Project Operating Status -** The PG&E Gateway Generating Station (GGS) achieved Plant Commercial Operation status on January 4, 2009. During the reporting period of January 2018 to December 2018, GGS continued its normal commercial operation activities. The Project key events list is included in **Exhibit 2**.

3 **Required Documents Submitted With This Report** - The Final Decision sets forth specific conditions, many of which include reporting requirements that must be addressed in the project's ACR. The following paragraphs provide the status of ongoing compliance activities that were completed during the reporting period:

   3.1 SOIL&WATER-10 - GGS utilized potable water, supplied by the City of Antioch. The Water Use Summary for RY 2018 is included in this report as **Exhibit 3**. Also included in Exhibit 3 is monthly water consumption invoices information from the City of Antioch. The total water use for the reporting period is 44.27 AF (acre-feet). The metering devices are owned, and maintained by the City of Antioch,

hence GGS is not allowed to do servicing, testing, and calibration of the metering devices.

3.2 VIS-1 - The maintenance works on treatment of structures, buildings, and tanks at Gateway Generating Station (GGS) were performed on regular basis expeditiously. There are at least 3 separate routine plant inspections, which include among other items, the identification of treatment re-works on structures, buildings, and tanks. These are: (1) Semi-annual (Spring and Fall) Facility-wide Inspection by Safety Committee, (2) Weekly Plant Engineer's Walk-down, and (3) Daily Plant Technician's Walk-down Inspection. In each of these inspections, maintenance work is identified (as may be needed), and a job request notification is submitted. At GGS, there is Work Management (SAP) System which tracks job requests to ensure that work is completed in a timely manner.

3.3 VIS-4 - In compliance with the Condition of Certification VIS-4, GGS confirms that appropriate maintenance was performed to ensure continued establishment (of growth) of the planted trees and shrubs. A suitable drip irrigation system, equipped with automatic sprinkler timer, was installed and is in operation.

3.4 SOIL&WATER-4 – In compliance with Condition of Certification SOIL&WATER-4, attached in **Exhibit 4a** are copies of Quarterly Self-Monitoring Reports submitted to and received by the Delta Diablo (DD) on April 11, 2018, July 12, 2018, October 10, 2018 and January 9, 2019 to cover the reporting year (RY) 2018. Attached in **Exhibit 4a1** are communications with the DD related with Q3 2018 compliance monitoring results: (1) Closure Report, and (2) Request for Exemption from 126 Priority Pollutants Applicability. Also attached in **Exhibit 4b** is status on agency citation. No Notice of Violation (NOV) was received from DD during the reporting period.

3.5 HAZ-1 – In compliance with Condition of Certification HAZ-1, attached in **Exhibit 5** is Updated Table 8.12-4: Hazardous Materials to be Added at Gateway Generating Station During the Operational Phase (of the Project). Also, a copy of Annual (2019) Update on Hazardous Materials Inventory as submitted to Local CUPA (Contra Costa Health Services) through the California Environmental Reporting System (CERS) is attached.

3.6 SOIL & WATER-3 – In compliance with Condition of Certification SOIL & WATER-3, a copy of the correspondence with the State Water Resources Control Board, through SMARTS (Stormwater Application & Report Tracking Systems) on the most current NOI and Revised SWPPP to comply with the requirements of the Industrial General Permit (WQ Order No. 2014-0057-DWQ) is submitted with this ACR. (See **Exhibit 6**.)

3.7 BIO-2 – In compliance with Condition of Certification BIO-2, the biology record summaries of the tasks described in BIO-2 is submitted with this ACR. (See **Exhibit 7**)

4. **Cumulative Listing of All Post-Certification Changes Approved by the CEC** – The following is a cumulative listing of all post-certification changes as approved by the CEC or cleared by the CPM.

4.1 ORDER Approving Addition, of Pacific Gas and Electric Company as Co-Owner and Operator with Mirant Delta, LLC on the Gateway Power Plant Unit 8 Project – Approved on July 19, 2006.

4.2 Removing Mirant Delta LLC As A Co-Owner, And Changing The Name Of The Project To The Gateway Generating Station – Approved on January 3, 2008

4.3 Order to Change Construction Work Hours And Noise-8 for the Gateway Generating Station – Approved on May 23, 2007

4.4 Order Amending the Energy Commission Decision to Eliminate the use of San Joaquin River Water as the Cooling Water Source and

Complete Ten Associated project design Changes - Approved on August 1, 2007

4.5 Order to Amend the Energy Commission Decision to Allow Use of Anhydrous Ammonia as the Refrigerant in the Inlet Air Chiller – Approved on December 5, 2007.

4.6 Order Approving a Petition to Amend the Energy Commission Decision to Allow Use of Two Additional Water Tanks – January 2, 2008

4.7 Petition for Insignificant Project Change - On February 4, 2008, PG&E filed a request for an insignificant project change related to a modification to the route for the sewer line. The CEC approved PG&E's request on March 10, 2008.

4.8 Approval of the Pacific Gas & Electric Company Petition to use a diesel fire pump engine, and make other minor changes to Air Quality Conditions of Certification of the Energy Commission Decision for the Gateway Generating Station (Order Amending the CEC Decision to Modify Equipment & Change Air Quality Conditions of Certification) – Approved August 26, 2009.

4.9 Commission Adoption Order - Adoption of the Proposed Decision of the Siting Committee on the Complaint for Noncompliance - Approved on February 17, 2010

4.10 Notice of Approval to Modify Gateway Generating Station Project: Petition for Insignificant Project Change to Plant Facility – Approved on October 18, 2010

4.11 On May 27, 2010, the CEC (Mr. Joseph Douglas) approved AQ-SC-11 submittal on the Preliminary Compliance Review on the Authority to Construct Application for the Fire Pump Diesel Engine.

4.12 Order Approving a Petition to Modify Several Air Quality Conditions to reflect the Bay Area Management District current conditions and the Prevention of Significant Deterioration (PSD) Action, September 7, 2011.

4.13 Notice of Decision by California Energy Commission on: Amendment to Modify Several Air Quality Conditions to Reflect the

(BAAQMD) current conditions and the Prevention of Significant Deterioration (PSD) Enforcement Actions, dated and posted: September 9, 2011.

4.14 Storage of One Spare Generator Step-Up (GSU) Transformer, January 26, 2012

4.15 Notice of Determination on Petition to Install additional 40,000-gallon Storage Tank, April 3, 2012

4.16 Approval of Project Change: to Install additional 40,000-gallon Storage Tank, April 19, 2012

4.17 Approval of Petition for Insignificant Project Change to Plant Facility: (a) to acquire the 29% aqueous ammonia system (from NRG, Inc., (b) to install a new stainless steel above-ground aqueous ammonia delivery piping system, and (c) to build security fence around the aqueous ammonia system and remainder of the west side of facility property. Staff-level approval: April 9, 2013. A request to modify this petition to include installation of 2 gate structures (one for GGS and the other for NRG, Inc., was sent to CEC on October 23, 2013. The modification was approved on October 23, 2013. A second modification to install only one gate structure for GGS was sent to CEC on November 13, 2014. The second modification was approved on November 13, 2014.

4.18 Approval of proposed stormwater BMP: Construction Work to Cover the Asphalt Drainage Ditch: The request was submitted to CEC on October 14, 2013. The request was approved on October 14, 2013.

4.19 Approval of proposed construction of additional turbine decking: The request was submitted on May 23, 2014. The request was approved on September 15, 2014.

4.20 Approval of proposed access stairs upgrades at three separate switchgear rooms: The request was submitted on August 11, 2014. The request was approved on October 2, 2014.

4.21 Approval of proposed installation of fixed hydrogen tube bank at the south side of the facility: The request was submitted on December 5, 2014. The request was approved on March 19, 2015

4.22 Approval of proposed construction of additional grating-type decking on the east side of the steam turbine: The request was submitted on May 21, 2015. The request was approved on August 14, 2015.

4.23 Approval of proposed construction of a temporary stormwater treatment system. The request was submitted on August 26, 2016. The request was approved on December 22, 2016.

5. **Missed Submittal Deadline:** None

6. **Filings Submitted to / Permits Issued by Other Government. Agencies During the Reporting Period** - The following is a list of filings submitted to, or permits issued by other government agencies during the reporting period:

6.1. January 10, 2018 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: October 2017 to December 2017

6.2. January 22, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for December 2017

6.3. January 24, 2018 – In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, GGS submitted the analytical results for the sampling of the Qualified Storm Event (QSE) that occurred on December 20, 2017 and January 8, 2018 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

6.4. January 25, 2018 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q4-2017 (Part 75 Compliance)

6.5. January 25, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q4-2017 Quarterly Excess Emission Report in accordance with 40 CFR 60.7 (c). This

is incompliance with the requirement of Paragraph 12 of the Second Amended Compliance Decree (CV09-4503-SI)

6.6. January 25, 2018 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q4-2017 was submitted to CEC/BAAQMD

6.7. February 14, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for January 2018

6.8. February 28, 2018 - GGS submitted to Contra Costa Health Services (CCHS) the Hazardous Materials Business Plan Annual Update for 2018

6.9. March 16, 2018 - (Condition of Certification AQ-30, and AQ-32) GGS submitted to BAAQMD/CEC Source Test Report and 2018 Relative Accuracy Test Audit & Compliance Test Report. The tests were completed January 15-19, 2018

6.10. March 22, 2018 – GGS submitted to the Bay Area Air Quality Management District (BAAQMD) the Major Facility Review (Title V) Permit Renewal Application

6.11. March 23, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for February 2018

6.12. March 28, 2018 – (General Condition of Certification, pages 179-180): GGS submitted the Annual Compliance Report for RY 2017

6.13. April 10, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for March 2018

6.14. April 11, 2018 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: January 2018 to March 2018

6.15. April 11, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q1-2018 Quarterly Excess Emission Report in accordance with 40 CFR 60.7 (c). This is incompliance with the requirement of Paragraph 12 of the Second Amended Compliance Decree (CV09-4503-SI)

6.16. April 12, 2018 – In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, GGS submitted the analytical results for the sampling of the Qualified Storm Event (QSE) that occurred on December March 1, 2018 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

6.17. April 19, 2018 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q1-2018 (Part 75 Compliance)

6.18. April 30, 2018 – GGS submitted to BAAQMD/CEC the Semi-annual Monitoring report for the period October 1, 2017 to March 31, 2018. This is to comply with Standard Condition F (Monitoring Report) of the Major Facility (Title V) Permit.

6.19. April 30, 2018 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q1 2018 was submitted to CEC/BAAQMD

6.20. May 24, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for April 2018

6.21. June 12, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for May 2018

6.22. June 14, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the semi-annual report on the CO projected exceedance date. This is incompliance with the requirement of Paragraph 11 (1) of the Second Amended Compliance Decree (CV09-4503-SI)

6.23. July 1, 2018 – GGS received the renewal on the Permit to Operate (PTO) from Contra Costa County Hazardous Materials Program (CUPA). The PTO expires on June 30, 2019.

6.24. July 11, 2018 - In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, the 2017-2018 Annual Report was submitted to Central Valley Regional Water Quality Control Board

6.25. July 12, 2018 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: April 2018 to June

2018

6.26. July 13, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for June 2018

6.27. July 25, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q2-2018 Quarterly Excess Emission Report in accordance with 40 CFR 60.7 (c). This is incompliance with the requirement of Paragraph 12 of the Second Amended Compliance Decree (CV09-4503-SI)

6.28. July 26, 2018 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q2-2018 (Part 75 Compliance)

6.29. July 27, 2018- (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q2 2018 was submitted to CEC/BAAQMD

6.30. August 13, 2018 – GGS submitted to BAAQMD the Permit to Operate (PTO) Renewal Data update (November 2018-October 2019)

6.31. September 17, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for August 2018

6.32. August 22, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for July 2018

6.33. September 26, 2018 – GGS submitted to BAAQMD/EPA, and copied CEC, on the Annual Compliance Certification for the reporting period of September 1, 2017 to August 31, 2018 as required under permit condition I.G of the Major Facility Review (Title V) permit.

6.34. October 3, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for September 2018

6.35. October 3, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q3-2018 Quarterly Excess Emission Report in accordance with 40 CFR 60.7 (c). This

is incompliance with the requirement of Paragraph 12 of the Second Amended Compliance Decree (CV09-4503-SI)

6.36. October 10, 2018 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: July 2018 to September 2018

6.37. October 22, 2018 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q3-2018 (Part 75 Compliance)

6.38. October 22, 2018 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q3 2018 was submitted to CEC/BAAQMD

6.39. October 23, 2018 – GGS submitted to BAAQMD/CEC the Semi-annual Monitoring report for the period April 1, 2018 to September 30, 2018. This is to comply with Standard Condition F (Monitoring Report) of the Major Facility (Title V) Permit

6.40. November 2, 2018 – GGS submitted to Contra Costa County Hazardous Material Program (CUPA) the proposed remedies and completion due dates to address the findings of November 2017 Risk Management Program/CalARP Audit.

6.41. November 19, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for October 2018

6.42. December 4, 2018 – GGS submitted to BAAQMD the small boiler registration for the Dew Point Heater. The Dew Point Heater was exempted from permitting requirement by the BAAQMD in January 2010, however, with the implementation of newer District Regulation, the BAAQMD requested that the heater be re-registered.

6.43. December 13, 2018 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the semi-annual report on the CO projected exceedance date. This is incompliance with the requirement of Paragraph 11 (1) of the Second Amended Compliance Decree (CV09-4503-SI)

6.44. December 14, 2018 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for November 2018

6.45. December 17, 2018 – GGS received the renewal on the Permit to Operate (PTO) from BAAQMD. The PTO expires on November 1, 2019.

6.46. December 18, 2018 – In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, GGS submitted the analytical results for the sampling of the Qualified Storm Event (QSE) that occurred on November 21, 2018 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

6.47. December 24, 2018 – In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, GGS submitted the analytical results for the sampling of the Qualified Storm Event (QSE) that occurred on November 29, 2018 and December 5, 2018 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

7. **Projected Compliance Activities for Next Year (RY January 1, 2019 – December 31, 2019)** - The following is a list of compliance activities/documents that PG&E anticipates for the January 1, 2019 to December 31, 2019 reporting period:

7.1 (Condition of Certification AQ-14) Quarterly Air Compliance Reports will be submitted within 30 days after the reporting period

7.2 (Condition of Certification AQ-33) Monthly CEMS Reports will be submitted to BAAQMD within 30 days after the reporting period

7.3 (Air Quality Compliance) PG&E anticipates the issuance of Permit to Operate (PTO Annual Renewal) in October 2019

7.4 Quarterly Air Quality EDR reports to EPA due on January 30, 2019, April 30, 2019, July 30, 2019 and October 30, 2019

7.5 Quarterly Self-Monitoring Reports to DD due on January 15, 2019, April 15, 2019, July 15, 2019 and October 15, 2019

7.6 Quarterly Industrial Flow Data Report to DD due January 15, 2019, April 15, 2019, July 15, 2019 and October 15, 2019

7.7 Annual HMBP update due to CCHS on March 1, 2019

7.8 2018-2019 Annual Report to comply with General Permit for Storm Water Associated with Industrial Activity, due to Central Valley Regional Water Quality Control Board on July 15, 2019

7.9 Sampling results of all qualified storm events due to Central Valley Regional Water Quality Control Board within 30 days of receiving analytical results from laboratory

7.10 (Conditions of Certification AQ-30 and AQ-31) - To submit to BAAQMD and CEC the Annual Source Test and RATA Plan for 2020

7.11 (Conditions of Certification AQ-29, AQ-30, AQ-31, and AQ-32) - To submit to BAAQMD and CEC Source Test Report and 2019 Relative Accuracy Test Audit & Compliance Test Report within 60 days of test date.

7.12 To submit to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Quarterly Excess Emission Report in accordance with 40 CFR 60.7 (c). This is incompliance with the requirement of Paragraph 12 of the Second Amended Compliance Decree (CV09-4503-SI). These reports are due on January 30, 2019, April 30, 2019, July 30, 2019 and October 30, 2019

7.13 To submit to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the CO Projected Exceedance Date (on semi-annual basis). This is incompliance with the requirement of Paragraph 11 of the Second Amended Compliance Decree (CV09-4503-SI). These reports are due on June 15, 2019 and December 15, 2019.

7.14 To submit to BAAQMD/EPA Annual and Semi-annual Title V reports. These reports are due on September 30, 2019, April 30, 2019 and October 31, 2019, respectively.

7.15 (Conditions of Certification – General Conditions) - CEC Annual Compliance Report for RY2018 due March 30, 2019, as pre-negotiated with the CPM

8. **Listing of the Year's Addition to Compliance File** - During the reporting period, the following compliance submittals were submitted to the CEC CPM and other regulatory agencies as required for review and approval.

Date	To	Condition	Subject
1/102018	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: Oct 2017 to Dec 2017
1/24/2018	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSEs that occurred on Dec 20, 2017, and Jan 8, 2018
1/22/2018	BAAQMD	AQ-33	Monthly CEMS Report for December 2017
1/25/2018	EPA	Part 75	EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q4-2017
1/25/2018	US EPA IX/ CEC	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q4-2017
1/25/2018	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q4-2017
2/14/2018	BAAQMD	AQ-33	Monthly CEMS Report for January 2018
2/28/2018	CCHS/CERS		Hazardous Materials Business Plan Annual Update for 2018
3/16/2018	BAAQMD/CEC	AQ-29, AQ-30, AQ-31	Source Test Report and 2018 Relative Accuracy Test Audit and Compliance Test Report; the tests were completed January 15-19, 2018

Date	To	Condition	Subject
3/23/2018	BAAQMD	AQ-33	Monthly CEMS Report for February 2018
3/28/2018	CEC	GEN (pp.179-180)	Annual Compliance Report #9
4/10/2018	BAAQMD	AQ-33	Monthly CEMS Report for March 2018
4/11/2018	US EPA IX/ CEC	Consent Decree Paragraph 12	
4/11/2018	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: January 2018 to March 2018
4/12/2018	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSE that occurred on Mar 1, 2018
4/19/2018	EPA	Part 75	EPA ECMPS ED) for Q1-2018
			Quarterly Excess Emission Report (NOx & CO) for Q1-2018
4/30/2018	BAAQMD/CEC	Title V	Semi-annual Monitoring Report for Oct 1, 2017 to Mar 31, 2018
4/30/2018	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q1 2018
5/24/2018	BAAQMD	AQ-33	Monthly CEMS Report for April 2018
6/5/2018	BAAQMD	AQ-33	Monthly CEMS Report for May 2018
6/14/2018	US EPA IX/ CEC	Consent Decree Paragraph 11(1)	Semi-annual Report on CO Projected Exceedance Date
7/1/2018	CCHS	HMBP	Permit to Operate, expiration date: June 30, 2019
7/11/2018	CVRWQCB-SMARTS	IGP	Storm Water Annual Report for 2017-2018

Date	To	Condition	Subject
7/12/2018	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: April 2018 to June 2018
7/13/2018	BAAQMD	AQ-33	Monthly CEMS Report for June 2018
7/25/2018	US EPA IX/ CEC	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q2-2018
7/26/2018	EPA	Part 75	EPA ECMPS EDR for Q2-2018
7/27/2018	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q2 2018
8/13/2018	BAAQMD	PTO	PTO Renewal Data Update
8/22/2018	BAAQMD	AQ-33	Monthly CEMS Report for July 2018
9/17/2018	BAAQMD	AQ-33	Monthly CEMS Report for August 2018
9/26/2018	BAAQMD/EPA /CEC	Title V	Annual Compliance Certification (Sep 1, 2017- Aug 31, 2018)
10/3/2018	BAAQMD	AQ-33	Monthly CEMS Report for September 2018
10/3/2018	US EPA IX/ CEC	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q3-2018
10/10/2018	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: July 2018 to September 2018
10/22/2018	EPA	Part 75	EPA ECMPS EDR for Q3-2018
10/22/2018	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q3 2018
10/23/2018	BAAQMD/CEC	Title V	Semi-annual Monitoring Report for Apr 1, 2018 to Sep 30, 2018

Date	To	Condition	Subject
11/19/2018	BAAQMD	AQ-33	Monthly CEMS Report for October 2018
12/13/2018	US EPA IX/ CEC	Consent Decree Paragraph 11(1)	Semi-annual Report on CO Projected Exceedance Date
12/14/2018	BAAQMD	AQ-33	Monthly CEMS Report for November 2018
12/18/2018	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSE that occurred on Nov 21, 2018
12/24/2018	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSE that occurred on Nov 29, 2018

9. **Evaluation of On-site Contingency Plan** – The On-site Contingency Plan for Unexpected Facility Closure (previously submitted to CEC 12/30/2008) has been evaluated. PG&E determined that the plan is adequate and does not need revision. PG&E, however, will continue to evaluate the plan and make necessary revisions as may be needed. A copy of the revision will be submitted to CEC promptly.

10. **Listing of Complaints, NOVs, Citations Received** – The following is a list of complaints, Notice of Violations, citation received during the reporting period:

10.1 On May 7, 2018, a Notice of Violation (NOV) was received from the Bay Area Air Quality Management District (BAAQMD). The NOV was a result of an excess emission event of 10/27/2017, where PG&E submitted an equipment breakdown relief request to BAAQMD. The BAAQMD has finally denied that request; hence, the issuance of this NOV.

In compliance with the CEC General Conditions of Certification (page 180), GGS submitted a copy of the NOV to CEC on May 9, 2018.

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 10

Exhibit 1
Updated Compliance Matrix

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2018

Color Code Legend

Construction Phase Condition	Commissioning Phase Condition	Operations Phase Condition	Submitted	Submitted / Approved / Completed

CEC Cond. No.	Project Phase	Summary of Condition	Submittal Required	Due Date to CEC	Date Submitted/ Completed	Submittal Approved by CEC	Status	Comments
AQ-13	3_OPS	CTs and HRSGs shall be fired on gas with a maximum sulfur content of no greater than 1 grain per 100 standard cubic feet.	Conduct monthly sulfur analysis and incorporate results into QAQR.	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-14	3_OPS	Combined heat input rate to each power train shall not exceed 2,227 MM BTU per hour over any rolling 3 hour period.	Demonstrate compliance in Quarterly Air Quality Reports (QAQR) due January 30, April 30, July 30, and October 30	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-15	3_OPS	Combined heat input rate to each power train shall not exceed 49,950 MM BTU per calendar day.	Demonstrate compliance in QAQR due January 30, April 30, July 30, and October 30	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-16	3_OPS	Combined cumulative heat input rate for the CTs and HRSG shall not exceed 34,900,000 MM BTU per year.	Demonstrate compliance in Quarterly Air Quality Reports (QAQR) due January 30, April 30, July 30, and October 30	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-17	3_OPS	HRSG duct burners shall not be fired without CT in operation.	Include info on date, time, an duration of any violation in Quarterly Air Quality Reports (due January 30, April 30, July 30, and October 30)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-18	3_OPS	CT 1 and HRSG 1 shall be abated by SCR whenever fuel is combusted at those sources and catalyst bed has reached minimum operating temp. (BACT for NOx)	Provide information on any major problem in operation of OxCat and SCR (include date, description, and steps taken to resolve) in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-19	3_OPS	CT 2 and HRSG 2 shall be abated by SCR whenever fuel is combusted at those sources and catalyst bed has reached minimum operating temp. (BACT for NOx)	Provide information on any major problem in operation of OxCat and SCR (include date, description, and steps taken to resolve) in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-20	3_OPS	CTs and HRSGs to comply with requirements as listed in the Condition under all operating scenarios, including duct burner firing mode and steam injection power aug mode. **Requirements do not apply to CT start-up or shut down.** (BACT, PSD…)	Provide info listed in Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-21	3_OPS	Regulated air pollutant mass emission rates shall not exceed limits shown in the Condition. (PSD)	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-22	3_OPS	CTs shall not run in startup mode simultaneously (PSD).	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-23	3_OPS	Total combined emissions from CTs and HRSG shall not exceed limits specified in Condition during any calendar day.	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 (of each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2018

Color Code Legend

Construction Phase Condition	Commissioning Phase Condition	Operations Phase Condition	Submitted	Submitted / Approved / Completed

CEC Cond. No.	Project Phase	Summary of Condition	Submittal Required	Due Date to CEC	Date Submitted/ Completed	Submittal Approved by CEC	Status	Comments
AQ-24	3_OPS	Cumulative combined emissions shall not exceed limits specified in Condition during any consecutive 12 month period.	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-25	3_OPS	Maximum projected annual toxic air contaminant emissions from CTs and HRSGs shall not exceed limits specified in Condition.	Owner shall perform a health risk assessment using emission rates determined by source test and most current BAAQMD approved procedures and unit risk factors in effect at the time of the analysis.	Within 60 days of source test date	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-26	3_OPS	Demonstrate compliance with Conditions AQ-14 through 17, 20(a) through 20 (d), 21, 23 (a), 24(a), and 24(b) with CEMs during all hours of operation including equipment startup and shutdowns for all parameters listed in Condition.	Detailed plan on how the measurements and recordings will be performed. CEMS Monitoring Plan	At least 60 days prior to initial operation	8/21/2008		Submitted to CEC & BAAQMD	Record keeping to demonstrate compliance is on-going.
AQ-27	3_OPS	Calculate and record daily the POC, PM10, and SO2 from each power train using actual heat input rates calculated per AQ-26, actual CT startup and shutdown times, and CEC/BAAQMD approved emission factors to calculate emissions. (See additional reporting requirements listed in Condition.)	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-28	3_OPS	Calculate and record on an annual basis the maximum projected emissions of formaldehyde, benzene, and specified PAHs.	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-30	3_OPS	Conduct District approved source test on exhaust points while CTs and HRSGs are operating at max. load and min. load to demonstrate compliance with AQ-20, and to verify accuracy of CEMS (per Condition AQ-26).	Submit **Source Test Protocols**/Conduct Source Test 60 days of initial operation and annually thereafter	Within 60 days of first fire, & annually thereafter	Notification: 12/18/2017 (for 2018 ST/RATA), Test (01/15/2018 to 01/19/2018)			
AQ-31a	3_OPS	Obtain approval for all source test procedures from BAAQMD Source Test Section and CPM prior to conducting tests.	Notify BAAQMD Source Test Section and CEC CPM in writing of **source test protocols and projected test dates**.	At least 7 days prior to source test dates	12/18/2017 (for 2018 ST/RATA)			
AQ-31b	3_OPS	Submit source test results to the District & CEC CPM.	Submit source test results to BAAQMD and CEC CPM.	Within 60 days of conducting source tests	3/16/2018			
AQ-32a	3_OPS	Conduct source test on exhaust point P-11 or P-12 while CT and HRSGs are operating at maximum allowable operating rates to demonstrate compliance with AQ-25 (see Condition for more details).	Notify BAAQMD Source Test Section and CEC CPM in writing of source test protocols and projected test dates. Conduct Source test 60 days of initial operation and biennial thereafter	At least 7 days prior to source test dates	12/18/2017			
AQ-32b	3_OPS	Submit source test results to the District & CEC CPM.	Submit **source test results** to BAAQMD and CEC CPM.	Within 60 days of conducting source tests	3/16/2018			

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
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Color Code Legend

Construction Phase Condition	Commissioning Phase Condition	Operations Phase Condition	Submitted	Submitted / Approved / Completed

CEC Cond. No.	Project Phase	Summary of Condition	Submittal Required	Due Date to CEC	Date Submitted/ Completed	Submittal Approved by CEC	Status	Comments
AQ-33	3_OPS	Submit all reports (monitor breakdowns, CEMS, emission access reports, equipment breakdowns) as required by District Rules or Regulations	Provide info listed in Condition 20 Verification language of condition and include in QAQR reports due January 30, April 30, July 30, and Oct. 30 each year)	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-34	3_OPS	Maintain ongoing records and reports on site for a minimum of 5 years (to include but not limited to: CEMS records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.). Source and analytical records, natural gas sulfur content analysis results, emission calculation record, plant upsets and related incidents.)	Make records available to BAAQMD, ARB, EPA, and CEC.	Ongoing	N/A		On-going (Records are maintained)	
AQ-35	3_OPS	Notify District and CPM of violation of any permit conditions in accordance with applicable BAAQMD rules and regulations.	Submit written notification to Enforcement Division within 96 hours of the violation.	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	event occurred on 10/19/16
AQ-44	3_OPS	Take monthly gas samples.		Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-45b	3_OPS	WSAC shall be properly installed/maintained to minimize drift losses	Sample the water once in July, August and September each year while WSAC is in operation and submit results in QACR.	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-46b	3_OPS	Have WSAC field rep inspect drift eliminators and certify installation was performed satisfactorily. Verify that PM10 emissions do not exceed 4.7 lbs/day based on most recent TDS (see formula in condition).	Report calculated PM10 emissions from WSAC in QACR.	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AQ-47	3_OPS	Fuel gas preheater shall not be operated more than 16 hours in any day.	Submit verification of hours of operation as part of QACR.	Quarterly after COD (Recurring)	Q1: 4/30/2018, Q2: 7/27/2018, Q3:10/22/2018, Q4: 1/23/2019		Submitted w/ Quarterly Air Compliance Reports (QACR)	
AM-1	3_OPS	Conduct Source Test to determine ammonia emission concentration	Submit the results of Source Test with in 60 days of completion	Annually (recurring)	3/16/2018			
BIO-02	3_OPS	Designated Biologist to submit record summaries in the Annual Compliance Report	Provide statement in the Annual Compliance Report whether any actions that affected biological resources occurred on site for the reporting year.	Annually in ACR	3/31/2018		Submitted with this Annual Compliance Report (ACR)	
BIO-09	3_OPS	Incorporate a Biological Resource Element that includes biological resource facility closure measures into the facility closure plan and BRMIMP.	at least 12 months prior to commencement of permanent closure activities.	at least 12 months prior to facility closure or earlier if needed				Not needed yet

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California Energy Commission Compliance Matrix
December 31, 2018

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CEC Cond. No.	Project Phase	Summary of Condition	Submittal Required	Due Date to CEC	Date Submitted/ Completed	Submittal Approved by CEC	Status	Comments
GEN	3_OPS	Annual Compliance Report (ACR)	Submit Annual Compliance Report (ACR): March 31st of the following calendar year	Annually (recurring)	3/31/2018		Submitted w/ this report	
GEN-09	3_OPS	Submit closure/decommissioning plan	Submit closure/decommissioning plan. Meet with CPM prior to submittal.	12 months prior to closing				Not needed yet
HAZ-01	3_OPS	Do not use any hazardous material not listed in Appendix C of the Final Decision.	Provide list of all hazardous materials used at site in the Annual Compliance Report	Annually in ACR	3/31/2018		Submitted w/ this report (see Exhibit 5)	
PAL-07	3_OPS	Include in facility closure plan a description regarding facility closure activity's potential to impact paleontological resources.	Include description of closure activities.	12 months prior to closure of the facility.				Not needed yet
SOILS & WATER-03	3_OPS	Keep the CPM informed of any modification to the permit, Stormwater Industrial General Permit (IGP).	Submit to CPM: any modification of IGP, submit copy of correspondence with the County on MS4 permit and CVRWQCB, maintain in SWPPP a copy of NOI.	during operation	3/31/2018		Submitted w/ this report	NOI and revised SWPPP was submitted to Waterboard through SMARTS copied on this report
SOILS & WATER-4	3_OPS	During operation, any monitoring reports provided to DD shall be provided to the CPM. The CPM shall be notified of any violations of discharge limits/amounts	Submit any water quality monitoring required by DD to the CPM in annual compliance report. Submit any NOV from DD to the CPM within 10 days of receipt explaining corrective actions taken.	Annually	3/31/2018		Submitted w/ this report	
SOILS & WATER-10b	3_OPS	Submit a water use summary to the CPM in the annual compliance report. Also report on the servicing, testing, and calibration of the meters in the ACR.	Provide information in annual compliance report.	Annually in ACR	3/31/2018		Submitted with ACR: Water use for RY 2016 = 63.6 AF	
TLSN-03	3_OPS	Identify and correct complaints of interference with radio or television communications from operation of transmission line. Maintain record of complaints for first five year of operation	Submit reports of line-related interferences and action taken to CPM for the first five year of operation.	Annually in ACR (for 2009-2013)	No longer required starting in RY 2014			

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2018

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Construction Phase Condition	Commissioning Phase Condition	Operations Phase Condition	Submitted	Submitted / Approved / Completed

CEC Cond. No.	Project Phase	Summary of Condition	Submittal Required	Due Date to CEC	Date Submitted/ Completed	Submittal Approved by CEC	Status	Comments
VIS-04c	3_OPS	Install aesthetic screening (trees) along south, east, and north boundaries	Verify in the annual compliance report that maintenance has been performed	Annually in ACR	3/31/2018		Submitted with ACR: appropriate maintenance was performed in RY 2016	

Key Dates:

First Fire	11/1/2008	(CT-A = 11/01/08, CT-B = 11/04/08)
Perf. Tests (Target)	12/6/2008	
Source Test (Started)	1/4/2009	Unit A:1/4/2009, Unit B: 01/06/2009
Source Test (Completed)	1/14/2009	For Both Units
COD (Target)	2/5/2009	
COD (Actual)	1/4/2009	
COD (Guaranteed)	2/28/2009	
Aq. Ammonia on Site	12/4/2008	
Steam Blow	11/4/2008	
Install Catalyst (SCR/CO)	11/24/2008	(SCR Catalyst = 11/24/08)
Q4 2009 Report	1/30/2010	
Sulfuric Acid on Site	3/1/2009	Planned: March 2009
First Lube	7/14/2008	
Noise Survey(Completed)	1/21/2009	Both Community and in-plant surveys
Sustained output	1/4/2009	
Connection Potable Water	3/17/2008	
Pre-energy E/MF	5/19/2008	
Post-energy E/MF	5/9/2009	(W/in 6 mos of start of operation = first synchronization to grid)
First Synchronization	11/10/2008	(First Synchronization to grid: CT-A : 11/11/08, CT-B : 11/10/08)
Start of operation	1/4/2009	
Annual Compliance Report	3/31/2010	First ACR submitted

Gateway Generating Station
(03-AFC-01)

Annual Compliance Report No. 10

Exhibit 2
Key Events List

KEY EVENTS LIST

PROJECT: GATEWAY GENERATING STATION
DOCKET #: 00-AFC-1C

EVENT DESCRIPTION	DATE
Date of Certification	05-30-01
POWER PLANT SITE ACTIVITIES	
Start Site Pre-Mobilization	01-08-07
Start Ground Disturbance	02-02-07
Start Grading	03-12-07
Start Construction	02-05-07
Begin Pouring Major Foundation Concrete	04-09-07
Begin Installation of Major Equipment	02-12-07
Completion of Installation of Major Equipment	10-16-08
First Combustion of Gas Turbine	10-25-08
Start Commercial Operation	12-31-08
Acquisition of second ammonia tank, tank farm facility, and associated property	December 2013
Regulated Substances Deregistration of Anhydrous Ammonia	05/23/2016
SWITCHYARD & TRANSMISSION TIE-IN ACTIVITIES	
Start Switchyard Construction	10-01-07
Switchyard & Tie-in Complete	04-30-08
Synchronization with Grid and Interconnection	12-01-08
FUEL SUPPLY LINE ACTIVITIES	
Start Gas Pipeline Construction and Interconnection	07-13-07
Complete Gas Pipeline Construction	07-01-08

Gateway Generating Station
(03-AFC-01)

Annual Compliance Report No. 10

Exhibit 3
Water Use Summary
and
City of Antioch Invoices

(To comply with CEC Condition of Certification: SOIL & WATER-10)

PG&E Gateway Generating Station

Water Use Summary

Reporting Period: Jan 2018 - Dec 2018

Date	Water Consumption		
	(gals.)	(cu. feet)	(acre-feet)
Jan-18	825,792	110,392.33	2.53
Feb-18	1,140,700	152,489.41	3.50
Mar-18	1,119,008	149,589.61	3.43
Apr-18	319,396	42,697.03	0.98
May-18	1,218,492	162,888.69	3.74
Jun-18	2,280,652	304,878.83	7.00
Jul-18	2,104,872	281,380.46	6.46
Aug-18	1,311,244	175,287.83	4.02
Sep-18	1,252,152	167,388.38	3.84
Oct-18	1,205,028	161,088.81	3.70
Nov-18	860,948	115,092.01	2.64
Dec-18	786,896	105,192.69	2.41
Annual Total:	**18,621,460.00**	**1,928,366.08**	**44.27**

City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 2/08/2018 **Water Service From:** 1/02/2018 **To:** 2/01/2018

Units: 1,104

COM ZONE 2 **Zone Charge:** 3.83

TDTATTFDTFAAAADADTDTFDDATFAATTTFTFDDTTFAATFADAATFADFATDDAFFAFADFA

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	5,818.50
PAYMENTS APPLIED	5,818.50-
WATER USAGE	4,228.32
2 " WATER MAINT FEE	142.00
SEWER NON-RES	1,185.29
BACKFLOW RP 3"	27.69

We Want to Hear From You !!
Join the Conversation and complete our survey
at www.ci.antioch.ca.us

For questions regarding this invoice, call Customer Service at (925) 779-7060.
For sewer problems, water leaks, potholes and street lights call Public Works at (925) 779-6950 or email publicworks@ci.antioch.ca.us. After hours, weekends and holidays call Police dispatch at (925) 778-2441.

Due Date > 3/01/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 5,583.30

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
24268	23164	1,104	825,792	30	27,526
		1,731	1,294,788	31	41,767
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 3/01/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 5,583.30

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000055833O

Six *Easy* Ways to Pay

Through our Auto Draft program, you may have your monthly water utility bill automatically paid from your checking account or personal credit or debit/card with the following logos (Discover, MasterCard, Visa).
The City of Antioch does not charge for this service; however, your bank or credit card agency may charge you a fee for the transaction. Simply visit our website at www.ci.antioch.ca.us, scroll down to the bottom right hand corner, click on Water Payments and scroll down to print the Auto Pay Authorization Agreement form, complete and return this form in person or by mail to Finance Customer Service at 200 H St, Antioch, CA 94509.

To pay your bill online, visit our website at ci.antioch.ca.us, scroll down to the bottom right hand corner, click on Water Payments, log in and follow the simple prompts. A separate charge will appear on your statement for the convenience fee payable to Municipal Online Payments. In addition, you may sign-up for **FREE** e-billlling, see your account detail, transaction history, and change or update your phone number and view your consumption history. **Internet payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your bill by automated phone attendant, call Customer Service at (925) 779-7060 and follow the prompts to pay your current water utility bill. This service is available 24 hours a day. **Automated telephone payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

Please be sure to detach and return the bottom portion/stub of your water utility bill and write your account number in the memo field of your payment. Return your payment in our blue return envelope. Mail payment 7 days prior to due date to ensure timely delivery. No staples or paper clips please! Returned payments are subject to a returned item fee of $25.00 for the first item; $35.00 for subsequent item. For your protection, please do not mail cash.

Or you can always visit us in person at the City Hall building located at the corner of Third and H Streets, 200 H Street, on the ground floor, at the Customer Service Cashier's window. Our regular walk in business hours are 8:30 am - 4:30 pm, M - F. (subject to change), excluding weekends and holidays. Cash, check (except for deposits, arrangements or on a final or disconnection notice), money order, debit or credit cards (Discover, MasterCard, Visa with picture id) are accepted. To avoid long lines near payment deadlines, consider paying by one of our other convenient options.

You can use our convenient night drop box to pay by check or money order however **checks are NOT accepted for deposits, arrangements or on a final or disconnection notice**. We have two boxes located at the City Hall building. One is a drive up box located mid parking lot at the center crosswalk. The other is located on the east side entrance to the right of the double glass entrance doors. Both are clearly marked as night drop boxes. Please be sure to include the water utility bill and write your account number in the memo field of your payment. Payments are promptly collected at 7:30 am each working weekday for processing the same business day. Returned payments are subject to a returned item fee of $25.00 for the first item; $35.00 for each subsequent item. For your protection, please do not leave cash.

Section 6-5.04.E provides disputes regarding a water bill shall not justify non-payment, underpayment, or delay in payment. Disputed bills shall be paid when due. Requests for investigation of a disputed bill shall be made in writing to the finance Services Supervisor. If a dispute is resolved in favor of the customer, a refund or credit shall be made.

Any type of payment returned to the City are subject to a returned fee of $25.00 for the first item; $35.00 for each subsequent item. This may subject you to immediate disconnection of water service if payment was made to avoid a disconnection.

City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 2/08/2018 **Water Service From:** 1/02/2018 **To:** 2/01/2018
Units:
Zone Charge:

TTDDAADFDADAFTTATFFAAFAADTADTDADFAFTADTAFFDTDADAATTDFFDTFFDTFDDTF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	21.20
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

We Want to Hear From You !!
Join the Conversation and complete our survey
at www.ci.antioch.ca.us

For questions regarding this invoice, call Customer Service at (925) 779-7060.
For sewer problems, water leaks, potholes and street lights call Public Works at (925) 779-6950 or email publicworks@ci.antioch.ca.us. After hours, weekends and holidays call Police dispatch at (925) 778-2441.

Due Date > 3/01/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.65

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings			CONSUMPTION INFORMATION		
Current	Previous	Units	Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 3/01/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 77.65

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401512000000007765

Six *Easy* Ways to Pay

Through our Auto Draft program, you may have your monthly water utility bill automatically paid from your checking account or personal credit or debit/card with the following logos (Discover, MasterCard, Visa).
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To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 3/07/2018 **Water Service From:** 2/01/2018 **To:** 3/03/2018

Units: 1,525

COM ZONE 2 **Zone Charge:** 3.83

ADTDAAFTFAFFFTAATTFFATFAFDTDDDFFDTFTFTAATFATDDDAAAADDDDTADTTAFFTD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	5,583.30
PAYMENTS APPLIED	5,583.30-
WATER USAGE	5,840.75
2 " WATER MAINT FEE	142.00
SEWER NON-RES	1,635.76
BACKFLOW RP 3"	27.69

We Want to Hear From You !!
Join the Conversation and complete our survey
at www.ci.antioch.ca.us

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Due Date > 3/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 7,646.20

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
25793	24268	1,525	1,140,700	30	38,023
		300	224,400	30	7,480
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 3/28/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 7,646.20

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000764620

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 3/07/2018 **Water Service From:** 2/01/2018 **To:** 3/03/2018

Units:

Zone Charge:

TFFTFDAFDAATTTTDAADATDAFTDAAAFTFFAAFADADAFDFTATFTADTDDTFTFDTFFTAF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	21.20
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

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Due Date > 3/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.65

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings			CONSUMPTION INFORMATION		
Current	Previous	Units	Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 3/28/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 77.65

Amount Paid: $ _____.__

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PO BOX 6015
Artesia, CA 90702-6015

00401512000000007765

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 4/04/2018 **Water Service From:** 3/03/2018 **To:** 4/02/2018

Units: 1,496

COM ZONE 2 **Zone Charge:** 3.83

TAADAFTDFADDTTTDAFFATFAFDTTFAFADFFAAATTDFFDDTADDTTTADFDADFDTFTTTD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	7,646.20
PAYMENTS APPLIED	7,646.20-
WATER USAGE	5,729.68
2 " WATER MAINT FEE	142.00
SEWER NON-RES	1,604.73
BACKFLOW RP 3"	27.69

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Due Date > 4/25/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 7,504.10

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

CONSUMPTION INFORMATION

	Current	Previous	Units	Gallons	Days	Gallons / Day
	27289	25793	1,496	1,119,008	30	37,300
Last Year			4,257	3,184,236	30	106,141

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 4/25/2018

Customer Name: PG&E

Account: 004-01511-00

For Service At: 3225 WILBUR AVE

Amount Now Due: 7,504.10

Amount Paid: $ _____.__

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00401511000075041O

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 4/04/2018 **Water Service From:** 3/03/2018 **To:** 4/02/2018
Units:
Zone Charge:

ATDTFTDADATAFTAATDDFAAFAATATDDDDDDFDFDTADFAADDTTATFFDFTDFDTTATFAF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	21.20
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

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Due Date > 4/25/2018

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Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		

Last Year

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Due Date: 4/25/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 77.65

Amount Paid: $ _____.__

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 5/07/2018 **Water Service From:** 4/02/2018 **To:** 5/02/2018

Units: 427

COM ZONE 2 **Zone Charge:** 3.83

DDTAFTFDTTAFAFTTDTTAFTATTFDATDTATFFDTFAAAADAFATDFFDFADADAAADDAFFF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	7,504.10
PAYMENTS APPLIED	7,504.10-
WATER USAGE	1,635.41
2 " WATER MAINT FEE	142.00
SEWER NON-RES	460.90
BACKFLOW RP 3"	27.69

SIGN UP TODAY FOR NO-COST ENERGY AND WATER CONSERVATION
SERVICES FROM RISING SUN - CALL 510-665-1501 EXT 5 TODAY!
IN ONE APPT YOU CAN RECEIVE LED'S SMART POWER STRIP AND MORE

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Due Date > 5/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 2,266.00

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
27716	27289	427	319,396	30	10,646
		1,874	1,401,752	30	46,725
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 5/28/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 2,266.00

Amount Paid: $ _____.__

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00401511000022660O

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To pay your bill by automated phone attendant, call Customer Service at (925) 779-7060 and follow the prompts to pay your current water utility bill. This service is available 24 hours a day. **Automated telephone payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 5/07/2018 **Water Service From:** 4/02/2018 **To:** 5/02/2018
Units:
Zone Charge:

FFFFAFAAATFTDFAFFAAFDDFDFFFDFFFAADAADAADTAADADDTDFAATDFATTFDTAADD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	21.20
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

SIGN UP TODAY FOR NO-COST ENERGY AND WATER CONSERVATION SERVICES FROM RISING SUN - CALL 510-665-1501 EXT 5 TODAY! IN ONE APPT YOU CAN RECEIVE LED'S SMART POWER STRIP AND MORE

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Due Date > 5/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.65

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings — CONSUMPTION INFORMATION

Current	Previous	Units	Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 5/28/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 77.65

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401512000000007765

Six *Easy* Ways to Pay

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 6/06/2018 **Water Service From:** 5/02/2018 **To:** 6/01/2018
Units: 1,629
COM ZONE 2 **Zone Charge:** 3.83

ADFDAAATFAFTFTATAAFFATFFFDTFFDFFDDAAFTATTFTDDDDDTAAAFDDTTDDTAATTD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	2,266.00
PAYMENTS APPLIED	2,266.00-
WATER USAGE	6,239.07
2 " WATER MAINT FEE	142.00
SEWER NON-RES	1,747.04
BACKFLOW RP 3"	27.69

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Due Date > 6/27/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 8,155.80

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

CONSUMPTION INFORMATION

	Current	Previous	Units	Gallons	Days	Gallons / Day
	29345	27716	1,629	1,218,492	30	40,616
Last Year			2,899	2,168,452	30	72,281

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 6/27/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 8,155.80

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000081558O

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 6/06/2018 **Water Service From:** 5/02/2018 **To:** 6/01/2018
Units:
Zone Charge:

TFTTFDFFDAAFTTTFTTDATDAATDATTFTFFFFDADAFAFFATATTAADFDDTFAFTTFADAF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	21.20
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

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Due Date > 6/27/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.65

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 6/27/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 77.65

Amount Paid: $ _____.__

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Please remit your payment to:
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PO BOX 6015
Artesia, CA 90702-6015

00401512000000007765

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 7/11/2018 **Water Service From:** 6/01/2018 **To:** 7/01/2018

Units: 3,049

COM ZONE 2 **Zone Charge:** 4.16

AFTDTFFAFFFADTFFTTFDTTDAFDTFDAFFFTDTFTFFTDFTTDFFAAADDTTAADDAAFDTT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	8,155.80
PAYMENTS APPLIED	8,155.80-
WATER USAGE	12,683.84
2 " WATER MAINT FEE	155.00
SEWER NON-RES	3,449.59
BACKFLOW RP 3"	27.69

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Due Date > 8/01/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 16,316.12

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

	Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
	32394	29345	3,049	2,280,652	30	76,021
Last Year			2,756	2,061,488	30	68,716

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 8/01/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 16,316.12

Amount Paid: $ _____.__

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00401511000163161 2

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 7/11/2018 **Water Service From:** 6/01/2018 **To:** 7/01/2018

Units:

Zone Charge:

AADAADDTAATATAAFDFDFDAAAAATTDFDDTDFDDDTFDADATDTDFTFFTFTFFTFTATFFD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.65
PAYMENTS APPLIED	77.65-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

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Due Date > 8/01/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings — CONSUMPTION INFORMATION

Current	Previous	Units	Gallons	Days	Gallons / Day
Last Year					

NO HISTORY AVAILABLE

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 8/01/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

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00401512000000007935

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To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 8/07/2018 **Water Service From:** 7/01/2018 **To:** 8/01/2018

Units: 2,814

COM ZONE 2 **Zone Charge:** 4.16

AFTDAFFTFAFFDTADTAFFTTAAFDADDFFFDTFTFTAFTFATTDDFAAADDDTAADTTAFDTF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	16,316.12
PAYMENTS APPLIED	16,316.12-
WATER USAGE	11,706.24
2 " WATER MAINT FEE	155.00
SEWER NON-RES	3,184.04
BACKFLOW RP 3"	27.69

SIGN UP TODAY FOR NO-COST ENERGY AND WATER CONSERVATION SERVICES FROM RISING SUN - CALL 510-665-1501 EXT 5 TODAY! IN ONE APPT YOU CAN RECEIVE LED'S SMART POWER STRIP AND MORE

For questions regarding this invoice, call Customer Service at (925) 779-7060.
For sewer problems, water leaks, potholes and street lights call Public Works at (925) 779-6950 or email publicworks@ci.antioch.ca.us. After hours, weekends and holidays call Police dispatch at (925) 778-2441.

Due Date > 8/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 15,072.97

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

	Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
	35208	32394	2,814	2,104,872	31	67,899
Last Year			2,388	1,786,224	31	57,620

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 8/28/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 15,072.97

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000150729?

Six *Easy* Ways to Pay

Through our Auto Draft program, you may have your monthly water utility bill automatically paid from your checking account or personal credit or debit/card with the following logos (Discover, MasterCard, Visa).
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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 8/07/2018 **Water Service From:** 7/01/2018 **To:** 8/01/2018
Units:
Zone Charge:

AADATDDAAFTFTAFDDDDDDADAAAAADADDADDDDDDFDTTATDATFTFFTATFFDAAATFFA

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	79.35-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

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Due Date > 8/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 8/28/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401512000000 7935

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 9/07/2018 **Water Service From:** 8/01/2018 **To:** 9/01/2018

Units: 1,753

COM ZONE 2 **Zone Charge:** 4.16

DAFTADTFFTTTTDTDAFTATAADTTFTAFTTFAADAFTDFFFFATTFTDDTDFAFDADDDDAAF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	15,072.97
PAYMENTS APPLIED	15,072.97-
WATER USAGE	7,292.48
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,985.11
BACKFLOW RP 3"	27.69

UPCOMING EVENTS: 10/5-10-7: CITYWIDE GARAGE SALE
OCT 13 8A-1P: REUSE ROUNDUP AT SOMERSVILLE TOWNE CENTER
FOR MORE INFO: VISIT ANTIOCHYARDSALES.COM OR CALL 779-6137

For questions regarding this invoice, call Customer Service at (925) 779-7060.
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Due Date > 9/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 10,213.92

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

CONSUMPTION INFORMATION

Current	Previous	Units	Gallons	Days	Gallons / Day
36961	35208	1,753	1,311,244	31	42,298
		2,248	1,681,504	31	54,242
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 9/28/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 10,213.92

Amount Paid: $ _____.__

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Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000102139 2

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 9/07/2018 **Water Service From:** 8/01/2018 **To:** 9/01/2018
Units:
Zone Charge:

DTDFAADFATDAAFTTDFAAFAATDAFDTDATAAFTTFTAFAFTFTDAFDTDAFATFFFDDDDDF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	79.35-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

UPCOMING EVENTS: 10/5-10-7: CITYWIDE GARAGE SALE
OCT 13 8A-1P: REUSE ROUNDUP AT SOMERSVILLE TOWNE CENTER
FOR MORE INFO: VISIT ANTIOCHYARDSALES.COM OR CALL 779-6137

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Due Date > 9/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 83.31

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings — CONSUMPTION INFORMATION

Current	Previous	Units	Gallons	Days	Gallons / Day
NO HISTORY AVAILABLE					
Last Year					

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 9/28/2018 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 83.31

Amount Paid: $ _____.__

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PO BOX 6015
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00401512000000008331

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 10/08/2018 **Water Service From:** 9/01/2018 **To:** 10/02/2018

Units: 1,674

COM ZONE 2 **Zone Charge:** 4.16

ADTTDTFAFFAAFTFTTTDDATDAADAADTDFFDDFFTFATDFADFADAAFFDTTDADDAAADAT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	10,213.92
PAYMENTS APPLIED	10,224.62-
WATER USAGE	6,963.84
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,895.84
BACKFLOW RP 3"	27.69

UPCOMING EVENTS: 10/5-10-7: CITYWIDE GARAGE SALE
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Due Date > 10/29/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 9,042.37

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
38635	36961	1,674	1,252,152	31	40,392
		2,748	2,055,504	30	68,516
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 10/29/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 9,042.37

Amount Paid: $ _____.__

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00401511000904237

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To pay your bill by automated phone attendant, call Customer Service at (925) 779-7060 and follow the prompts to pay your current water utility bill. This service is available 24 hours a day. **Automated telephone payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

Please be sure to detach and return the bottom portion/stub of your water utility bill and write your account number in the memo field of your payment. Return your payment in our blue return envelope. Mail payment 7 days prior to due date to ensure timely delivery. No staples or paper clips please! For your protection, please do not mail cash.

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 10/08/2018 **Water Service From:** 9/01/2018 **To:** 10/02/2018

Units:

Zone Charge:

ATDFFADTAADAAAATDFFFFAAAFAADDDFDTTFADDTADADTDFDFFTADTFTTFTFTADFDD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	83.31
PAYMENTS APPLIED	87.27-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

UPCOMING EVENTS: 10/5-10-7: CITYWIDE GARAGE SALE
OCT 13 8A-1P: REUSE ROUNDUP AT SOMERSVILLE TOWNE CENTER
FOR MORE INFO: VISIT ANTIOCHYARDSALES.COM OR CALL 779-6137

For questions regarding this invoice, call Customer Service at (925) 779-7060.
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Due Date > 10/29/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings — CONSUMPTION INFORMATION

Current	Previous	Units	Gallons	Days	Gallons / Day

NO HISTORY AVAILABLE

Last Year

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 10/29/2018

Customer Name: PG&E

Account: 004-01512-00

For Service At: 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401512000000007935

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 11/07/2018 **Water Service From:** 10/02/2018 **To:** 11/01/2018

Units: 1,611

COM ZONE 2 **Zone Charge:** 4.16

AATADDDATFTFDAFDDFDDDFDAAAATDATDTTDDDDDFDTFATFAFFTFDTADFFDFAADDFT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	9,042.37
PAYMENTS APPLIED	9,042.37-
WATER USAGE	6,701.76
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,824.65
BACKFLOW RP 3"	27.69

FOR WATERING TIPS AND WATER CONSERVATION
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Due Date > 11/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 8,709.10

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

	Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
	40246	38635	1,611	1,205,028	30	40,167
Last Year			1,589	1,188,572	31	38,341

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 11/28/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 8,709.10

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

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00401511000870910

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 11/07/2018 **Water Service From:** 10/02/2018 **To:** 11/01/2018

Units:

Zone Charge:

FATFAFDAATDADFAFDFAFDAFTFADDDFFTTTFADFTFDAATADDAFDADAFAAFDADTDDDF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	79.35-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

FOR WATERING TIPS AND WATER CONSERVATION
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Due Date > 11/28/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		

Last Year

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 11/28/2018

Customer Name: PG&E

Account: 004-01512-00

For Service At: 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

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00401512000000 7935

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 12/05/2018 **Water Service From:** 11/01/2018 **To:** 12/02/2018

Units: 1,151

COM ZONE 2 **Zone Charge:** 4.16

FFDFDFFTTDFFDFFFDAADDTTTFFFDDAFAADDADFFFTTFTAFFDFFAFATAAATAFTADDT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	8,709.10
PAYMENTS APPLIED	9,144.55-
WATER USAGE	4,788.16
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,304.85
BACKFLOW RP 3"	27.69

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Due Date > 12/26/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 6,275.70

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
41397	40246	1,151	860,948	31	27,772
		953	712,844	31	22,994
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 12/26/2018 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 6,275.70

Amount Paid: $ _____.__

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00401511000062757O

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 12/05/2018 **Water Service From:** 11/01/2018 **To:** 12/02/2018
Units:
Zone Charge:

FATTFDDADTTFTDAFTDTFTAFTATFADFDTDTFFFATFDFDAAFTAADFDFFAFFTTDTDFAD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	83.31-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
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Due Date > 12/26/2018

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		

Last Year

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 12/26/2018

Customer Name: PG&E

Account: 004-01512-00

For Service At: 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

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City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

Please be sure to detach and return the bottom portion/stub of your water utility bill and write your account number in the memo field of your payment. Return your payment in our blue return envelope. Mail payment 7 days prior to due date to ensure timely delivery. No staples or paper clips please! For your protection, please do not mail cash.

Or you can always visit us in person at the City Hall building located at the corner of Third and H Streets, 200 H Street, on the ground floor, at the Customer Service Cashier's window. Our regular walk in business hours are 8:30 am - 4:30 pm, M - F. (subject to change), excluding weekends and holidays. Cash, check (except for deposits, arrangements or on a final or disconnection notice), money order, debit or credit cards (Discover, MasterCard, Visa with picture id) are accepted. To avoid long lines near payment deadlines, consider paying by one of our other convenient options.

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01511-00 **For service at:** 3225 WILBUR AVE

CREATED ON 1/08/2019 **Water Service From:** 12/02/2018 **To:** 1/02/2019

Units: 1,052

COM ZONE 2 **Zone Charge:** 4.16

FFDADDFTADAADFFFDTTDDDDTAFFTDADATTDDDFFFTTFAAFAFFFFDATAFADAFTFDFT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	6,275.70
PAYMENTS APPLIED	6,275.70-
WATER USAGE	4,376.32
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,192.98
BACKFLOW RP 3"	27.69

FOR WATERING TIPS AND WATER CONSERVATION
PLEASE VISIT https://www.h2ouse.org/

For questions regarding this invoice, call Customer Service at (925) 779-7060.
For sewer problems, water leaks, potholes and street lights call Public Works at (925) 779-6950 or email publicworks@ci.antioch.ca.us. After hours, weekends and holidays call Police dispatch at (925) 778-2441.

Due Date > 1/29/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 5,751.99

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
42449	41397	1,052	786,896	31	25,383
		1,152	861,696	31	27,796
	Last Year				

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 1/29/2019 **Customer Name:** PG&E

Account: 004-01511-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 5,751.99

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

Please remit your payment to:
City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401511000575199

Six *Easy* Ways to Pay

Through our Auto Draft program, you may have your monthly water utility bill automatically paid from your checking account or personal credit or debit/card with the following logos (Discover, MasterCard, Visa).
The City of Antioch does not charge for this service; however, your bank or credit card agency may charge you a fee for the transaction. Simply visit our website at www.ci.antioch.ca.us, scroll down to the bottom right hand corner, click on Water Payments and scroll down to print the Auto Pay Authorization Agreement form, complete and return this form in person or by mail to Finance Customer Service at 200 H St, Antioch, CA 94509.

To pay your bill online, visit our website at ci.antioch.ca.us, scroll down to the bottom right hand corner, click on Water Payments, log in and follow the simple prompts. A separate charge will appear on your statement for the convenience fee of $1.00 (subject to change) payable to Municipal Online Payments. In addition, you may sign-up for **FREE** e-billling, see your account detail, transaction history, and change or update your phone number and view your consumption history. **Internet payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your bill by automated phone attendant, call Customer Service at (925) 779-7060 and follow the prompts to pay your current water utility bill. This service is available 24 hours a day. **Automated telephone payments made to avoid disconnection must be made ON or BEFORE the due date specified in your Final or Disconnection Notice to avoid penalties and service charges.**

To pay your regular, non-delinquent bill by mail, checks or money orders may be mailed to:

City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

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City of Antioch - Finance Department

Utility Service Billing - Customer Service (925) 779-7060

Account: 004-01512-00 **For service at:** 3225 WILBUR AVE

CREATED ON 1/08/2019 **Water Service From:** 12/02/2018 **To:** 1/02/2019
Units:
Zone Charge:

DDAFTAAFTDFDAFDTFAATFTDDDFDDATAATATATAFTATTDFTFADFTTTTFTTFFFDFADA

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	79.35-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	4.26

FOR WATERING TIPS AND WATER CONSERVATION
PLEASE VISIT https://www.h2ouse.org/

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Due Date > 1/29/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 79.35

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
			NO HISTORY AVAILABLE		

Last Year

PLEASE **DETACH** AND RETURN THIS PORTION WITH **PAYMENT**

Due Date: 1/29/2019 **Customer Name:** PG&E

Account: 004-01512-00 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 79.35

Amount Paid: $ _____.__

Payment must be received by the City, on or before due date above to avoid 5% late penalty.

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City of Antioch
PO BOX 6015
Artesia, CA 90702-6015

00401512000000 7935

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Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 10

Exhibit 4
Quarterly Self-Monitoring Reports to DD, Notice of Violation/Corrective Action (Condition of Certification SOIL&WATER-4)

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 10

Exhibit 4a
Quarterly Self-Monitoring Reports to DD,
(Condition of Certification SOIL&WATER-4)

Pacific Gas and Electric Company®

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

RECEIVED BY
DELTA DIABLO
APR 11 2018

April 11, 2018

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending March 31, 2018)

Dear Mr. Auer,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending March 31, 2018, as required under DDD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Average Daily HRSG Blow-down Steam Cycles, WSAC Operating Months Report, and Laboratory Results, copies of notification and follow-up reports to the District.

Please note that the annual monitoring data for the combined site flow RY 2018, and first semi-annual monitoring data for combined site flow and categorical waste streams are also submitted in this report.

During the February 2018 semi-annual monitoring of the categorical waste stream, the limit (10 ug/L) for a priority pollutant (40 CFR part 423), total cyanide (#118), was exceeded with 18.0 ug/L. A notification of this event was promptly submitted to DD on 3/7/2018. Following the DD recommendation, a resampling of wastewater was conducted to verify if there was "false positive" reporting on the analytical results. An evaluation of the plant process to identify the potential sources of exceedance and resampling of corresponding wastewater streams and source water were conducted, and follow-up reports on the result of evaluation were submitted to DD verbally on several occasions and email on 4/9/2018. (See Attachment 9 of this report for details.) As a best management practice (BMP), GGS is cleaning–up the underground and aboveground holding tanks under "process control" scenario, will conduct resampling, and will submit resultant analytical report to DD. A No 126 Priority Pollutant content certification from water chemistry vendor was also requested, and will submit the same to DD when received.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company®

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

April 11, 2018

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

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(For Period Ending March 31, 2018)

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Sincerely,

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in March 31, 2018

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DDSD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2019.

The report includes the following attachments:

Attachment 1:	Certification Statement
Attachment 2:	Industrial User Compliance Report
Attachment 3:	Industrial Monitoring Report Summary
Attachment 4:	Discharge Flow Data
Attachment 5:	Monthly Flow Data
Attachment 6:	WSAC Operating Hours Report
Attachment 7:	Cycles of Concentration
Attachment 8:	Laboratory Results
Attachment 9:	Notification/Follow-up Report on Exceedance Event

Attachment 1
Certification Statement

Certification Statement

Name of Business: **PG&E Gateway Generating Station**

Address: **3225 Wilbur Avenue, Antioch, CA. 94509**

Phone: **925-522-7805**

Period Covered: **Period ending March 31, 2018**

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

Signature:_____ **Date:**_____

Print Name: **Tim Wisdom**

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Michael Auer Pretreatment
Fax # (925)756-1961 Phone: (925)756-1929
From: Tim Wisdom
Company: Pacific Gas and Electric Company – Gateway Generating Station
Period Covered: Period ending March 31, 2018

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

_√_ _ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)
____ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2017 SMR)
_√__ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)
_√__ Certification statement included (See Attachment 1)

Violations (if applicable)

_√_ All wastewater discharge exceedance are reported during this reporting period
_√_ Delta Diablo was contacted. (See Additional Notes below)
___ A follow-up report on characterization re-sampling was submitted on
___ Corrective actions to resolve violation:
___ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes: During the February 2018 semi-annual monitoring of the categorical waste stream, the limit (10 ug/L) for a priority pollutant (40 CFR part 423), total cyanide (#118), was exceeded with 18.0 ug/L. A notification of this event was promptly submitted to DD on 3/7/2018. Following the DD recommendation, a resampling of wastewater was conducted to verify if there was "false positive" reporting on the analytical results. An evaluation of the plant process to identify the potential sources of exceedance and resampling of corresponding waste water streams and source water were conducted, and follow-up reports on the result of evaluation were submitted to DD verbally on several occasions and email on 4/9/2018. (See Attachment 9 of this report for details.) As a best management practice (BMP), GGS is cleaning–up the underground and aboveground holding tanks under "process control" scenario, will conduct resampling, and will submit resultant analytical report to DD. A No 126 Priority Pollutant content certification from water chemistry vendor was also requested, and will submit the same to DD when received.

All violations will be discussed in the cover letter of the self-monitoring report.

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY **(Combined Site Flow: FAC - Control Manhole Local Limits: E-001)**

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE	2/27/2018	2/28/2018	2/28/2018					
TYPE	G	G	C24					
STATION	E-001	E-001	E-001					
SMP.BY	Muskan	Muskan	Muskan					
PURPOSE	Compliance Semiannual (SA1)	Compliance Semiannual (SA1)	Compliance Semiannual (SA1)					

units in mg/l unless otherwise noted

PARAMETERS	LIMITS								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.	7..35							
BOD				52					
COD				190					
TDS				437					
TSS				54.50					
Arsenic	0.15			0.00053					
Cadmium	0.1			ND (<0.00025)					
Chromium	0.5			0.00088					
Copper	0.5			0.0280					
Iron				0.6					
Lead	0.5			ND (<0.0005)					
Mercury	0.003			ND (<0.0002)					
Molybdenum				0.14					
Nickel	0.5			0.0029					
Selenium	0.25			ND (<0.0005)					
Silver	0.2			ND (<0.00019)					
Zinc	1.00			0.12					
Cyanide	0.2		0.0084						
Phenol	1.00		0.0877						
Ammonia	200		48						
O&G Petro/Min (E1664A w/ Silica)	100	8.7	ND (<5.0)						
O&G Animal/Vegetable Oil	300	21.0	14.0						
TTO EPA 608			ND						
TTO EPA 624			0.00130						
TTO EPA 625			0.053						
TTO	2.00		0.054						
Sulfide									
Sulfate									

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

INDUSTRIAL MONITORING REPORT SUMMARY (**Industrial Waste: I-001**)

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE	2/28/2018	2/28/2018					
TYPE	C24	G					
STATION	I-001	I-001					
SMP.BY	Muskan	Muskan					
PURPOSE	Compliance Quarterly (Q1)	Compliance Semiannual (SA1)					

units in mg/l unless otherwise noted

LIMITS

PARAMETERS	**WSAC In Operation**	**WSAC Not In Operation**							
FLOW, DAILY (gal)	51,120	51,120							
FLOW, MONTH (gal)									
126 Priority Pollutants	ND (<0.01)	NA							
Dichlorobromomethane (047)	ND (<0.01)	NA		0.0008					
Chloroform (022)	ND (<0.01)	NA		0.00055					
Dibromochloromethane (048)	ND (<0.01)	NA		0.00067					
Tetrachlorodibenzopdioxin-TCDD (126)	ND (<0.01)	NA		ND (<4.82E-9)					
Arsenic (112)	ND (<0.01)	0.15	ND (<0.0005)	ND (<0.0005)					
Cadmium(115)	ND (<0.01)	0.1	ND (<0.00025)	ND (<0.00025)					
Chromium (116)	0.2	0.5	ND (<0.0005)	0.00067					
Copper (117)	ND (<0.01)	0.5	0.0043	0.0051					
Lead (119)	ND (<0.01)	0.5	ND (<0.0005)	ND (<0.0005)					
Mercury (120)	ND (<0.01)	0.003	ND (<0.0002)	ND (<0.0002)					
Nickel (121)	ND (<0.01)	0.50	0.0012	0.002					
Selenium (122)	ND (<0.01)	0.25	ND (<0.0005)	ND (<0.0005)					
Silver (123)	ND (<0.01)	0.2	ND (<0.00019)	ND (<0.00019)					
Zinc (125)	1	1	0.057	0.062					
Cyanide (Total) (118)	ND (<0.01)	0.2		0.018					
TTO EPA 608				ND					
TTO EPA 624				0.00202					
TTO EPA 625				ND					
TTO		2.00		0.00202					

Comments: ND = Non-Detect, NSD = No Structures Detected, NA = Not Applicable, MFL = Millions of Fibers per Liter

All 126 Priority Pollutants were tested; however, only identified pollutants above ND in this summary or required for quarterly testing. Priority pollutant number as identified in Appendix B of the permit is listed in parenthesis next to the parameter. Refer to Attachment 8 to view all results. Per the preamble to the 1982 version of the final rule for the Steam Electric Category, 40 CFR 423, pg. 52295, DD interpretation is that ND is less than 10 ppb (i.e. 0.01 mg/L). Results reported as indicated in the analytical results.

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

January 2018-March 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
1/1/2018	34.4	0.0	NO	14,674	0.0	0	NO		14,674
1/2/2018	34.3	0.0	NO	14,449	22.5	0	NO	394	14,844
1/3/2018	34.3	0.0	NO	6,973	22.6	0	NO	376	7,349
1/4/2018	34.7	0.0	NO	29,394	22.5	0	NO	378	29,772
1/5/2018	34.3	0.0	NO	10,943	0.0	0	NO		10,943
1/6/2018	34.5	0.0	NO	14,190	0.0	0	NO		14,190
1/7/2018	34.6	0.0	NO	27,403	0.0	0	NO		27,403
1/8/2018	34.5	0.0	NO	20,536	23.2	0	NO	378	20,913
1/9/2018	34.4	0.0	NO	15,471	23.5	0	NO	379	15,850
1/10/2018	34.3	0.0	NO	6,721	0.0	1	NO	379	7,100
1/11/2018	34.6	0.0	NO	29,480	23.4	0	NO	375	29,855
1/12/2018	34.6	0.0	NO	27,295	0.0	0	NO		27,295
1/13/2018	34.5	0.0	NO	15,249	0.0	0	NO		15,249
1/14/2018	34.4	0.0	NO	21,792	0.0	0	NO		21,792
1/15/2018	34.5	0.0	NO	33,209	23.2	0	NO	380	33,589
1/16/2018	34.4	0.0	NO	14,812	22.6	0	NO	379	15,191
1/17/2018	34.4	0.0	NO	7,017	0.0	0	NO		7,017
1/18/2018	34.7	0.0	NO	26,720	21.1	0	NO	364	27,083
1/19/2018	34.4	0.0	NO	15,255	0.1	0	NO		15,255
1/20/2018	35.6	2.0	NO	19,801	0.0	0	NO		19,801
1/21/2018	35.3	0.0	NO	25,433	22.9	0	NO	383	25,816
1/22/2018	34.5	0.0	NO	4,211	0.0	0	NO	1	4,212
1/23/2018	35.2	0.0	NO	37,656	23.4	0	NO	358	38,015
1/24/2018	34.4	0.0	NO	31,743	0.0	0	NO		31,743
1/25/2018	36.8	10.0	NO	22,689	23.8	0	NO	389	23,078
1/26/2018	34.5	0.0	NO	14,424	0.0	0	NO		14,424
1/27/2018	-0.1	0.0	NO	(537)	22.7	0	NO	354	(182)
1/28/2018	34.6	0.0	NO	40,871	0.0	0	NO	1	40,872
1/29/2018	34.4	0.0	NO	19,941	0.0	0	NO		19,941
1/30/2018	34.3	0.0	NO	14,490	24.1	0	NO	385	14,875
1/31/2018	34.4	0.0	NO	7,579	23.1	0	NO	365	7,943
								Max Daily Flow (Limit: 51,120):	40,872
								Monthly Total:	**595,902**
2/1/2018	34.6	0.0	NO	26,993	0.1	0	NO	3	26,997
2/2/2018	34.4	0.0	NO	14,295	22.3	0	NO	368	14,663
2/3/2018	34.3	0.0	NO	19,194	0.1	0	NO	0	19,194
2/4/2018	34.3	0.0	NO	10,865	0.0	0	NO		10,865
2/5/2018	0.1	0.0	NO		22.9	0	NO	386	386
2/6/2018	34.7	0.0	NO	24,185	0.1	0	NO	2	24,187
2/7/2018	34.6	0.0	NO	48,250	22.9	0	NO	393	48,643
2/8/2018	34.6	0.0	NO	41,912	23.2	0	NO	374	42,286
2/9/2018	34.6	0.0	NO	15,347	0.0	0	NO		15,347
2/10/2018	34.6	0.0	NO	32,442	22.9	1	NO		32,442
2/11/2018	34.4	0.0	NO	25,860	0.0	0	NO		25,860
2/12/2018	34.5	0.0	NO	27,712	0.0	0	NO		27,712
2/13/2018	34.4	0.0	NO	14,763	23.2	0	NO	378	15,141
2/14/2018	34.4	0.0	NO	14,642	22.3	0	NO	371	15,013
2/15/2018	34.5	0.0	NO	21,569	22.6	0	NO	374	21,943
2/16/2018	34.4	0.0	NO	21,524	0.1	0	NO		21,524
2/17/2018	34.4	0.0	NO	31,120	0.0	0	NO		31,120
2/18/2018	34.7	0.0	NO	20,452	0.0	0	NO		20,452
2/19/2018	34.6	0.0	NO	44,040	0.0	0	NO		44,040
2/20/2018	34.6	0.0	NO	32,598	22.6	0	NO	565	33,163
2/21/2018	34.7	0.0	NO	11,190	22.2	0	NO	363	11,553
2/22/2018	34.4	0.0	NO	14,026	0.1	0	NO		14,026
2/23/2018	34.6	0.0	NO	27,104	0.0	0	NO		27,104
2/24/2018	34.5	0.0	NO	14,713	22.8	0	NO	562	15,274
2/25/2018	34.8	0.0	NO	26,797	22.2	0	NO	145	26,942
2/26/2018	34.8	0.0	NO	28,529	21.3	0	NO	152	28,681
2/27/2018	34.1	0.0	NO	14,978	19.8	0	NO	659	15,637
2/28/2018	34.7	0.0	NO	34,877	20.4	0	NO	270	35,147

PG&E Gateway Generating Station

Discharge Flow Data

January 2018-March 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
								Max Daily Flow (Limit: 51,120):	48,643
								Monthly Total:	**665,341**
3/1/2018	35.1	0.0	NO	33,924	0.1	0	NO	4	33,928
3/2/2018	34.8	0.0	NO	15,111	22.1	0	NO	364	15,475
3/3/2018	34.9	0.0	NO	28,186	0.0	0	NO		28,186
3/4/2018	34.7	0.0	NO	13,166	0.0	0	NO		13,166
3/5/2018	34.8	0.0	NO	40,580	22.0	0	NO	382	40,962
3/6/2018	34.4	0.0	NO	22,667	21.9	0	NO	381	23,048
3/7/2018	34.5	0.0	NO	15,573	0.1	0	NO		15,573
3/8/2018	34.5	0.0	NO	27,739	21.5	0	NO	378	28,117
3/9/2018	34.4	0.0	NO	6,972	0.0	0	NO		6,972
3/10/2018	34.5	0.0	NO	14,231	0.0	1	NO		14,231
3/11/2018	34.3	0.0	NO	7,529	0.0	0	NO		7,529
3/12/2018	34.8	0.0	NO	18,655	22.8	0	NO	744	19,399
3/13/2018	34.5	0.0	NO	32,622	0.0	0	NO		32,622
3/14/2018	34.4	0.0	NO	15,234	22.3	0	NO	381	15,616
3/15/2018	34.6	0.0	NO	22,469	21.2	0	NO	373	22,842
3/16/2018	34.6	0.0	NO	28,547	0.1	0	NO		28,547
3/17/2018	34.5	0.0	NO	13,686	21.9	0	NO	380	14,066
3/18/2018	34.4	0.0	NO	13,431	0.1	0	NO	3	13,435
3/19/2018	34.4	0.0	NO	14,582	0.0	0	NO		14,582
3/20/2018	34.5	0.0	NO	17,702	20.4	0	NO	366	18,068
3/21/2018	34.7	0.0	NO	31,751	20.1	0	NO	376	32,127
3/22/2018	34.4	0.0	NO	14,381	22.4	0	NO	375	14,756
3/23/2018	34.5	0.0	NO	28,911	0.1	0	NO	2	28,913
3/24/2018	34.4	0.0	NO	29,251	0.0	0	NO		29,251
3/25/2018	36.0	1.0	NO	41,271	23.3	0	NO	388	41,659
3/26/2018	34.8	0.0	NO	43,920	22.1	0	NO	384	44,305
3/27/2018	35.0	0.0	NO	36,839	0.0	0	NO	5	36,844
3/28/2018	34.8	0.0	NO	28,114	21.7	0	NO	382	28,496
3/29/2018	34.8	0.0	NO	23,547	0.0	0	NO		23,547
3/30/2018	34.9	0.0	NO	31,610	21.9	0	NO	381	31,992
3/31/2018	34.6	0.0	NO	47,771	0.0	0	NO		47,771
								Max Daily Flow (Limit: 51,120):	47,771
								Monthly Total:	**766,023**

Notes:

The high flow on 1/25/2018 was due to yearly automatic high flow testing

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**
Address: 3225 Wilbur Avenue, Antioch, CA 94509
City: Antioch
Contact Name: Tim Wisdom
Flow Meter: Sewer Final Effluent ____ City Water Meter ____
(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2018**

Month	Flow (gallons)	Due Date
January	595,902	4/15/2018
February	665,341	4/15/2018
March	766,023	4/15/2018
April		
May		
June		
July		
August		
September		
October		
November		
December		

Note:
1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.
2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report

January 2018 to March 2018

WSAC Operation	
Month	Hours of Operation
January-18	0.00
February-18	82.83
March-18	37.75
April-18	
May-18	
June-18	
July-18	
August-18	
September-18	
October-18	
November-18	
December-18	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

January 2018 to March 2018

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-18	(WSAC not in service)
February-18	4.72
March-18	5.34
April-18	
May-18	
June-18	
July-18	
August-18	
September-18	
October-18	
November-18	
December-18	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Monitoring of Categorical and Combined Waste Streams
(I-001 and E-001)

Attachment 8a
Laboratory Results
Quarterly Monitoring of Categorical Waste Stream
(I-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1802D58

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Quarterly Sampling (February 2018)

Project Received: 02/28/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (February 2018)
WorkOrder: 1802D58

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

j1	See attached narrative.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (February 2018)
WorkOrder: 1802D58

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (February 2018)

Work Order: 1802D58
March 07, 2018

Our standard ICP-MS analytical procedure is to analyze selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D58
Date Received:	2/28/18 14:55	**Extraction Method:**	E245.2
Date Prepared:	2/28/18	**Analytical Method:**	E245.2
Project:	Quarterly Sampling (February 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D58-001B	Water	02/28/2018 11:55	AA1 _22	153840

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	03/01/2018 12:17

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D58
Date Received:	2/28/18 14:55	**Extraction Method:**	E200.8
Date Prepared:	3/1/18	**Analytical Method:**	E200.8
Project:	Quarterly Sampling (February 2018)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D58-001A	Water	02/28/2018 11:55	ICP-MS1 058SMPL.D	153903

Analytes	Result	RL	DF	Date Analyzed
Arsenic	ND	0.50	1	03/01/2018 13:45
Cadmium	ND	0.25	1	03/01/2018 13:45
Chromium	ND	0.50	1	03/01/2018 13:45
Copper	**4.3**	2.0	1	03/01/2018 13:45
Lead	ND	0.50	1	03/01/2018 13:45
Nickel	**1.2**	0.50	1	03/01/2018 13:45
Selenium	ND	0.50	1	03/01/2018 13:45
Silver	ND	0.19	1	03/01/2018 13:45
Zinc	**57**	15	1	03/01/2018 13:45

Surrogates	REC (%)	Limits	
Terbium	105	70-130	03/01/2018 13:45

Analyst(s): MIG Analytical Comments: j1

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D58
Date Prepared:	2/27/18	**BatchID:**	153840
Date Analyzed:	2/28/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (February 2018)	**Sample ID:**	MB/LCS-153840 1802C93-001CMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Mercury	ND	1.95	0.20	2	-	97	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1.82	1.76	2	ND	87	83	80-120	3.40	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D58
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	50.3	0.50	50	-	101	85-115
Cadmium	ND	50.5	0.25	50	-	101	85-115
Chromium	ND	50.0	0.50	50	-	100	85-115
Copper	ND	50.4	2.0	50	-	101	85-115
Lead	ND	51.2	0.50	50	-	102	85-115
Nickel	ND	50.9	0.50	50	-	102	85-115
Selenium	ND	50.0	0.50	50	-	100	85-115
Silver	ND	50.4	0.19	50	-	101	85-115
Zinc	ND	537	15	500	-	107	85-115
Surrogate Recovery							
Terbium	768	771		750	102	103	70-130

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D58
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	51.1	51.3	50	0.5270	101	102	75-125	0.488	20
Cadmium	49.9	51.4	50	ND	100	102	75-125	2.92	20
Chromium	49.9	49.9	50	0.8789	98	98	75-125	0	20
Copper	75.4	76.1	50	28.08	95	96	75-125	0.898	20
Lead	49.8	51.3	50	ND	99	102	75-125	2.99	20
Nickel	51.4	52.3	50	2.890	97	99	75-125	1.73	20
Selenium	19.9	20.1	50	ND	39,F10	40,F10	75-125	1.10	20
Silver	48.4	49.7	50	ND	97	99	75-125	2.63	20
Zinc	605	623	500	120.2	97	100	75-125	2.93	20
Surrogate Recovery									
Terbium	780	799	750		104	107	70-130	2.36	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	ND<2.5	0.5270	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	0.911	0.8789	3.65	-
Copper	27.9	28.08	0.641	-
Lead	0.460	ND	-	-
Nickel	2.79	2.890	3.46	-
Selenium	ND<2.5	ND	-	-
Silver	ND<0.95	ND	-	-
Zinc	119	120.2	0.998	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D58 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: a1he@pge.com; j5ld@pge.com; tlwy@pge.
PO:
Project: Quarterly Sampling (February 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1802D58-001	I-001	Water	2/28/2018 11:55	☐	B	A										

Test Legend:

1	HG_W	2	METALSMS_TTLC_W	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Quarterly Sampling (February 2018) **Work Order:** 1802D58
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 2/28/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D58-001A	I-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	2/28/2018 11:55	5 days	None	☐	
1802D58-001B	I-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	2/28/2018 11:55	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1802D58

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510)-861-1597 (Cell) **Fax:** ( )

Project Name: Quarterly Sampling (February 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Mustang Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, and zinc)	Analysis Request: Metals (Arsenic and selenium) 200.8 Selenium by reaction mode	Analysis Request: Mercury (245.2)	Remarks
I-001		C	2/28/18	11:55	1	250-ml poly	X			X				X		X	X		
I-001		C	2/28/18	11:55	1	250-ml poly	X			X				X				X	

Relinquished By:	Date:	Time:	Received By:
	2/28/18	14:55	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.6

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**2/28/2018 14:55**
Project:	**Quarterly Sampling (February 2018)**	Date Logged:	**2/28/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1802D58** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 3.6°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA ☐
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Attachment 8b
Laboratory Results
Semi-annual Monitoring of Categorical Waste Stream
(I-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1802D59

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Semi-Annually Sampling (February 2018)

Project Received: 02/28/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (February 2018)
WorkOrder: 1802D59

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

a32	Pretreatment was performed using bismuth nitrate for Cyanide analysis.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (February 2018)
WorkOrder: 1802D59

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E1613B
Date Prepared:	3/1/18	**Analytical Method:**	E1613B
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	pg/L

2,3,7,8-TCDD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001G	Water	02/28/2018 12:10	GC36	153957

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	4.82	1				03/06/2018 20:28
						Total TEQ:	0	

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	70	42-164	03/06/2018 20:28
Labeled Compound Recovery	**REC (%)**	**Limits**	
13C-2,3,7,8-TCDD	69	31-137	03/06/2018 20:28

Analyst(s): KBO

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E608/SW3620B
Date Prepared:	3/1/18	**Analytical Method:**	E608
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001F	Water	02/28/2018 12:10	GC20 03011815.D	153939

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.00028	0.0010	1	03/01/2018 18:16
a-BHC	ND	0.00031	0.0010	1	03/01/2018 18:16
b-BHC	ND	0.00069	0.0010	1	03/01/2018 18:16
d-BHC	ND	0.00014	0.0010	1	03/01/2018 18:16
g-BHC	ND	0.00045	0.0010	1	03/01/2018 18:16
Chlordane (Technical)	ND	0.0023	0.020	1	03/01/2018 18:16
a-Chlordane	ND	0.00085	0.0010	1	03/01/2018 18:16
g-Chlordane	ND	0.00015	0.0010	1	03/01/2018 18:16
p,p-DDD	ND	0.00011	0.0010	1	03/01/2018 18:16
p,p-DDE	ND	0.00018	0.0010	1	03/01/2018 18:16
p,p-DDT	ND	0.00017	0.0010	1	03/01/2018 18:16
Dieldrin	ND	0.00014	0.0010	1	03/01/2018 18:16
Endosulfan I	ND	0.00011	0.0010	1	03/01/2018 18:16
Endosulfan II	ND	0.00046	0.0010	1	03/01/2018 18:16
Endosulfan sulfate	ND	0.00033	0.0020	1	03/01/2018 18:16
Endrin	ND	0.00018	0.0010	1	03/01/2018 18:16
Endrin aldehyde	ND	0.00053	0.0010	1	03/01/2018 18:16
Endrin ketone	ND	0.00026	0.0010	1	03/01/2018 18:16
Heptachlor	ND	0.00041	0.0010	1	03/01/2018 18:16
Heptachlor epoxide	ND	0.00025	0.0010	1	03/01/2018 18:16
Methoxychlor	ND	0.00012	0.0010	1	03/01/2018 18:16
Toxaphene	ND	0.0020	0.020	1	03/01/2018 18:16
Aroclor1016	ND	0.0019	0.020	1	03/01/2018 18:16
Aroclor1221	ND	0.0024	0.020	1	03/01/2018 18:16
Aroclor1232	ND	0.0038	0.020	1	03/01/2018 18:16
Aroclor1242	ND	0.0028	0.020	1	03/01/2018 18:16
Aroclor1248	ND	0.0018	0.020	1	03/01/2018 18:16
Aroclor1254	ND	0.0015	0.020	1	03/01/2018 18:16
Aroclor1260	ND	0.0028	0.020	1	03/01/2018 18:16
PCBs, total	ND	0.0015	0.020	1	03/01/2018 18:16

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	76	70-130	03/01/2018 18:16

Analyst(s): CK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001D	Water	02/28/2018 12:10	GC28 03011807.D	153993

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	03/01/2018 10:42
Acrylonitrile	ND	2.0	1	03/01/2018 10:42
2-Chloroethyl Vinyl Ether	ND	1.0	1	03/01/2018 10:42

Surrogates	REC (%)	Limits	
Dibromofluoromethane	113	78-141	03/01/2018 10:42

Analyst(s): AK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001C	Water	02/28/2018 12:10	GC16 03011812.D	153994

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	03/01/2018 14:39
Bromodichloromethane	**0.80**	0.50	1	03/01/2018 14:39
Bromoform	ND	0.50	1	03/01/2018 14:39
Bromomethane	ND	0.50	1	03/01/2018 14:39
Carbon tetrachloride	ND	0.50	1	03/01/2018 14:39
Chlorobenzene	ND	0.50	1	03/01/2018 14:39
Chloroethane	ND	0.50	1	03/01/2018 14:39
Chloroform	**0.55**	0.50	1	03/01/2018 14:39
Chloromethane	ND	0.50	1	03/01/2018 14:39
Dibromochloromethane	**0.67**	0.50	1	03/01/2018 14:39
1,2-Dibromoethane (EDB)	ND	0.50	1	03/01/2018 14:39
1,2-Dichlorobenzene	ND	0.50	1	03/01/2018 14:39
1,3-Dichlorobenzene	ND	0.50	1	03/01/2018 14:39
1,4-Dichlorobenzene	ND	0.50	1	03/01/2018 14:39
1,1-Dichloroethane	ND	0.50	1	03/01/2018 14:39
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/01/2018 14:39
1,1-Dichloroethene	ND	0.50	1	03/01/2018 14:39
trans-1,2-Dichloroethene	ND	0.50	1	03/01/2018 14:39
1,2-Dichloropropane	ND	0.50	1	03/01/2018 14:39
cis-1,3-Dichloropropene	ND	0.50	1	03/01/2018 14:39
trans-1,3-Dichloropropene	ND	0.50	1	03/01/2018 14:39
Ethylbenzene	ND	0.50	1	03/01/2018 14:39
Methyl-t-butyl ether (MTBE)	ND	0.50	1	03/01/2018 14:39
Methylene chloride	ND	1.0	1	03/01/2018 14:39
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/01/2018 14:39
Tetrachloroethene	ND	0.50	1	03/01/2018 14:39
Toluene	ND	0.50	1	03/01/2018 14:39
1,1,1-Trichloroethane	ND	0.50	1	03/01/2018 14:39
1,1,2-Trichloroethane	ND	0.50	1	03/01/2018 14:39
Trichloroethene	ND	0.50	1	03/01/2018 14:39
Trichlorofluoromethane	ND	0.50	1	03/01/2018 14:39
Vinyl chloride	ND	0.50	1	03/01/2018 14:39
Xylenes, Total	ND	0.50	1	03/01/2018 14:39

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001C	Water	02/28/2018 12:10	GC16 03011812.D	153994

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	107	78-141		03/01/2018 14:39
Toluene-d8	118	78-129		03/01/2018 14:39
4-BFB	98	61-140		03/01/2018 14:39

Analyst(s): AK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001E	Water	02/28/2018 12:10	GC17 03011819.D	153838

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.96	1	03/01/2018 19:06
Acenaphthylene	ND	0.96	1	03/01/2018 19:06
Anthracene	ND	0.96	1	03/01/2018 19:06
Benzidine	ND	4.8	1	03/01/2018 19:06
Benzo (a) anthracene	ND	0.96	1	03/01/2018 19:06
Benzo (a) pyrene	ND	0.96	1	03/01/2018 19:06
Benzo (b) fluoranthene	ND	0.96	1	03/01/2018 19:06
Benzo (g,h,i) perylene	ND	0.96	1	03/01/2018 19:06
Benzo (k) fluoranthene	ND	0.96	1	03/01/2018 19:06
Bis (2-chloroethoxy) Methane	ND	0.96	1	03/01/2018 19:06
Bis (2-chloroethyl) Ether	ND	0.96	1	03/01/2018 19:06
Bis (2-chloroisopropyl) Ether	ND	0.96	1	03/01/2018 19:06
Bis (2-ethylhexyl) Adipate	ND	0.96	1	03/01/2018 19:06
Bis (2-ethylhexyl) Phthalate	ND	1.9	1	03/01/2018 19:06
4-Bromophenyl Phenyl Ether	ND	0.96	1	03/01/2018 19:06
Butylbenzyl Phthalate	ND	0.96	1	03/01/2018 19:06
4-Chloroaniline	ND	1.9	1	03/01/2018 19:06
4-Chloro-3-methylphenol	ND	0.96	1	03/01/2018 19:06
2-Chloronaphthalene	ND	0.96	1	03/01/2018 19:06
2-Chlorophenol	ND	0.96	1	03/01/2018 19:06
4-Chlorophenyl Phenyl Ether	ND	0.96	1	03/01/2018 19:06
Chrysene	ND	0.96	1	03/01/2018 19:06
Dibenzo (a,h) anthracene	ND	0.96	1	03/01/2018 19:06
Dibenzofuran	ND	0.96	1	03/01/2018 19:06
Di-n-butyl Phthalate	ND	0.96	1	03/01/2018 19:06
1,2-Dichlorobenzene	ND	0.96	1	03/01/2018 19:06
1,3-Dichlorobenzene	ND	0.96	1	03/01/2018 19:06
1,4-Dichlorobenzene	ND	0.96	1	03/01/2018 19:06
3,3-Dichlorobenzidine	ND	1.9	1	03/01/2018 19:06
2,4-Dichlorophenol	ND	0.96	1	03/01/2018 19:06
Diethyl Phthalate	ND	0.96	1	03/01/2018 19:06
2,4-Dimethylphenol	ND	0.96	1	03/01/2018 19:06
Dimethyl Phthalate	ND	0.96	1	03/01/2018 19:06
4,6-Dinitro-2-methylphenol	ND	4.8	1	03/01/2018 19:06
2,4-Dinitrophenol	ND	4.8	1	03/01/2018 19:06
2,4-Dinitrotoluene	ND	0.96	1	03/01/2018 19:06
2,6-Dinitrotoluene	ND	0.96	1	03/01/2018 19:06

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001E	Water	02/28/2018 12:10	GC17 03011819.D	153838

Analytes	Result	RL	DF	Date Analyzed
Di-n-octyl Phthalate	ND	1.9	1	03/01/2018 19:06
1,2-Diphenylhydrazine	ND	0.96	1	03/01/2018 19:06
Fluoranthene	ND	0.96	1	03/01/2018 19:06
Fluorene	ND	0.96	1	03/01/2018 19:06
Hexachlorobenzene	ND	0.96	1	03/01/2018 19:06
Hexachlorobutadiene	ND	0.96	1	03/01/2018 19:06
Hexachlorocyclopentadiene	ND	4.8	1	03/01/2018 19:06
Hexachloroethane	ND	0.96	1	03/01/2018 19:06
Indeno (1,2,3-cd) pyrene	ND	0.96	1	03/01/2018 19:06
Isophorone	ND	0.96	1	03/01/2018 19:06
2-Methylnaphthalene	ND	0.96	1	03/01/2018 19:06
2-Methylphenol (o-cresol)	ND	0.96	1	03/01/2018 19:06
3 & 4-Methylphenol (m,p-Cresol)	ND	0.96	1	03/01/2018 19:06
Naphthalene	ND	0.96	1	03/01/2018 19:06
2-Nitroaniline	ND	4.8	1	03/01/2018 19:06
3-Nitroaniline	ND	4.8	1	03/01/2018 19:06
4-Nitroaniline	ND	4.8	1	03/01/2018 19:06
Nitrobenzene	ND	0.96	1	03/01/2018 19:06
2-Nitrophenol	ND	4.8	1	03/01/2018 19:06
4-Nitrophenol	ND	4.8	1	03/01/2018 19:06
N-Nitrosodimethylamine	ND	4.8	1	03/01/2018 19:06
N-Nitrosodiphenylamine	ND	0.96	1	03/01/2018 19:06
N-Nitrosodi-n-propylamine	ND	0.96	1	03/01/2018 19:06
Pentachlorophenol	ND	4.8	1	03/01/2018 19:06
Phenanthrene	ND	0.96	1	03/01/2018 19:06
Phenol	ND	0.96	1	03/01/2018 19:06
Pyrene	ND	0.96	1	03/01/2018 19:06
1,2,4-Trichlorobenzene	ND	0.96	1	03/01/2018 19:06
2,4,5-Trichlorophenol	ND	0.96	1	03/01/2018 19:06
2,4,6-Trichlorophenol	ND	0.96	1	03/01/2018 19:06

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001E	Water	02/28/2018 12:10	GC17 03011819.D	153838

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	48	8-130		03/01/2018 19:06
Phenol-d5	37	5-130		03/01/2018 19:06
Nitrobenzene-d5	113	20-140		03/01/2018 19:06
2-Fluorobiphenyl	104	40-140		03/01/2018 19:06
2,4,6-Tribromophenol	129	16-180		03/01/2018 19:06
Terphenyl-d14	147	40-170		03/01/2018 19:06

Analyst(s): REB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/2/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001 W/ Bismuth Nitrate Treatment	1802D59-001A	Water	02/28/2018 12:10	WC_SKALAR 030218A1_40	154009

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**18**	1.0	1	03/02/2018 13:31

Analyst(s): BM

Analytical Comments: a32

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001 W/O Bismuth Nitrate Treatment	1802D59-001B	Water	02/28/2018 12:10	WC_SKALAR 030218A1_20	154009

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**17**	1.0	1	03/02/2018 12:18

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E245.2
Date Prepared:	2/28/18	**Analytical Method:**	E245.2
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001I	Water	02/28/2018 12:10	AA1 _11	153914

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	03/01/2018 11:45

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Received:	2/28/18 14:55	**Extraction Method:**	E200.8
Date Prepared:	2/28/18	**Analytical Method:**	E200.8
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Priority Pollutant Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1802D59-001J	Water	02/28/2018 12:10	ICP-MS1 068SMPL.D	153903

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	03/01/2018 14:47
Arsenic	ND	0.50	1	03/01/2018 14:47
Beryllium	ND	0.50	1	03/01/2018 14:47
Cadmium	ND	0.25	1	03/01/2018 14:47
Chromium	**0.67**	0.50	1	03/01/2018 14:47
Copper	**5.1**	2.0	1	03/01/2018 14:47
Lead	ND	0.50	1	03/01/2018 14:47
Mercury	ND	0.050	1	03/01/2018 14:47
Nickel	**2.0**	0.50	1	03/01/2018 14:47
Selenium	ND	0.50	1	03/01/2018 14:47
Silver	ND	0.19	1	03/01/2018 14:47
Thallium	ND	0.50	1	03/01/2018 14:47
Zinc	**62**	15	1	03/01/2018 14:47

Surrogates	REC (%)	Limits	
Terbium	106	70-130	03/01/2018 14:47

Analyst(s): DB

CLIENT: PG&E Gateway Generating Station
Work Order: 1802D59
Project: Semi-Annually Sampling (February 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 153957

SampleID **MB-153957**	TestCode: **1613_FULL_W**	Units: **pg/L**	Prep Date: **3/1/2018**
Batch ID: **153957**	TestNo: **E1613B**	Run ID: **GC36_180307A**	Analysis Date: **3/6/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	ND	5.00				-				
Cleanup Standard										
37Cl-2,3,7,8-TCDD	83.2		100		83	35 - 197				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	795		1000		79	25 - 164				

CLIENT: PG&E Gateway Generating Station
Work Order: 1802D59
Project: Semi-Annually Sampling (February 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 153957

SampleID **LCS-153957**	TestCode: **1613_FULL_W**	Units: **pg/L**	Prep Date: **3/1/2018**
Batch ID: **153957**	TestNo: **E1613B**	Run ID: **GC36_180307A**	Analysis Date: **3/6/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	92.2	5.00	100	0	92	67 - 158				
Cleanup Standard										
37Cl-2,3,7,8-TCDD	75.4		100		75	31 - 191				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	702		1000		70	20 - 175				

CLIENT: PG&E Gateway Generating Station
Work Order: 1802D59
Project: Semi-Annually Sampling (February 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 153957

SampleID **LCSD-153957**	TestCode: **1613_FULL_W**	Units: **pg/L**	Prep Date: **3/1/2018**
Batch ID: **153957**	TestNo: **E1613B**	Run ID: **GC36_180307A**	Analysis Date: **3/7/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	93.6	5.00	100	0	94	67 - 158	92.2	1.51	20	
Cleanup Standard										
37Cl-2,3,7,8-TCDD	74.6		100		75	31 - 191				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	739		1000		74	20 - 175				

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
PCBs, total	ND	0.0015	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0373			0.050	75	70-130

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0404	0.0453	0.050	81	91	42-122	11.4	20
a-BHC	0.0508	0.0503	0.050	102	101	37-134	0.969	20
b-BHC	0.0474	0.0475	0.050	95	95	17-147	0	20
d-BHC	0.0521	0.0510	0.050	104	102	19-140	2.23	20
g-BHC	0.0507	0.0511	0.050	101	102	32-127	0.770	20
a-Chlordane	0.0399	0.0434	0.050	80	87	40-140	8.53	20
g-Chlordane	0.0454	0.0492	0.050	91	98	40-140	7.98	20
p,p-DDD	0.0448	0.0514	0.050	90	103	31-141	13.8	20
p,p-DDE	0.0433	0.0479	0.050	87	96	30-145	10.1	20
p,p-DDT	0.0502	0.0526	0.050	101	105	25-160	4.65	20
Dieldrin	0.0476	0.0516	0.050	95	103	36-146	8.25	20
Endosulfan I	0.0461	0.0500	0.050	92	100	45-153	8.06	20
Endosulfan II	0.0431	0.0465	0.050	86	93	0-202	7.58	20
Endosulfan sulfate	0.0438	0.0462	0.050	88	92	26-144	5.42	20
Endrin	0.0455	0.0479	0.050	91	96	30-147	5.14	20
Endrin aldehyde	0.0438	0.0464	0.050	88	93	40-140	5.87	20
Endrin ketone	0.0411	0.0454	0.050	82	91	40-140	10.1	20
Heptachlor	0.0464	0.0495	0.050	93	99	34-111	6.42	20
Heptachlor epoxide	0.0425	0.0453	0.050	85	91	37-142	6.37	20
Methoxychlor	0.0437	0.0481	0.050	87	96	40-140	9.51	20
Aroclor1016	0.0900	0.0958	0.15	60	64	50-114	6.29	20
Aroclor1260	0.110	0.106	0.15	73	71	8-127	3.46	20
Surrogate Recovery								
Decachlorobiphenyl	0.0351	0.0413	0.050	70	83	70-130	16.2	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	NR	NR		ND<0.01	NR	NR	-	NR	-
a-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
b-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
d-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
g-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
a-Chlordane	NR	NR		ND<0.01	NR	NR	-	NR	-
g-Chlordane	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDD	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDE	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDT	NR	NR		ND<0.01	NR	NR	-	NR	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Dieldrin	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan I	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan II	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan sulfate	NR	NR		ND<0.02	NR	NR	-	NR	-
Endrin	NR	NR		ND<0.01	NR	NR	-	NR	-
Endrin aldehyde	NR	NR		ND<0.01	NR	NR	-	NR	-
Endrin ketone	NR	NR		ND<0.01	NR	NR	-	NR	-
Heptachlor	NR	NR		ND<0.01	NR	NR	-	NR	-
Heptachlor epoxide	NR	NR		ND<0.01	NR	NR	-	NR	-
Methoxychlor	NR	NR		ND<0.01	NR	NR	-	NR	-
Aroclor1016	NR	NR		ND<0.2	NR	NR	-	NR	-
Aroclor1260	NR	NR		ND<0.2	NR	NR	-	NR	-
Surrogate Recovery									
Decachlorobiphenyl	NR	NR			NR	NR	-	NR	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153993
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153993 1802D59-001DMS/MSD

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	5.0	-	-	-
Acrylonitrile	ND	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	1.0	-	-	-
Surrogate Recovery					
Dibromofluoromethane	28.2		25	113	83-139

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	23.4	22.6	20	117	113	70-130	3.44	20
Acrylonitrile	24.7	25.6	20	123	128	70-130	3.53	20
2-Chloroethyl Vinyl Ether	16.4	17.6	20	82	88	70-130	6.67	20
Surrogate Recovery								
Dibromofluoromethane	28.4	28.8	25	114	115	83-139	1.15	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acrolein (Propenal)	14.4	9.86	20	ND	72	49,F1	70-130	37.4,F1	20
Acrylonitrile	21.9	22.5	20	ND	110	113	70-130	2.70	20
2-Chloroethyl Vinyl Ether	20.0	20.9	20	ND	100	104	70-130	4.15	20
Surrogate Recovery									
Dibromofluoromethane	27.9	27.8	25		111	111	78-141	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.20	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	0.771	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
Vinyl chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	26.0		25	104	83-139
Toluene-d8	30.3		25	121	87-125
4-BFB	2.45		2.5	98	74-133

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	9.74	10.1	10	97	101	37-151	3.19	20
Bromodichloromethane	9.26	9.57	10	93	96	35-155	3.35	20
Bromoform	7.29	7.69	10	73	77	45-169	5.35	20
Bromomethane	16.5	15.4	10	165	155	1-242	6.37	20
Carbon tetrachloride	9.70	10.1	10	97	101	70-140	4.42	20
Chlorobenzene	9.51	9.66	10	95	97	37-160	1.53	20
Chloroethane	12.7	11.5	10	127	115	14-230	9.34	20
Chloroform	9.42	9.86	10	94	99	51-138	4.57	20
Chloromethane	11.4	11.1	10	114	111	1-273	3.34	20
Dibromochloromethane	8.04	8.43	10	80	84	53-149	4.69	20
1,2-Dibromoethane (EDB)	8.78	9.31	10	88	93	62-127	5.83	20
1,2-Dichlorobenzene	8.80	9.27	10	88	93	18-190	5.24	20
1,3-Dichlorobenzene	9.20	9.56	10	92	96	59-156	3.84	20
1,4-Dichlorobenzene	9.25	9.64	10	92	96	18-190	4.15	20
1,1-Dichloroethane	9.55	9.82	10	96	98	70-130	2.80	20
1,2-Dichloroethane (1,2-DCA)	9.10	9.54	10	91	95	49-155	4.73	20
1,1-Dichloroethene	9.60	10.0	10	96	100	1-234	4.33	20
trans-1,2-Dichloroethene	9.73	10.1	10	97	101	54-156	4.12	20
1,2-Dichloropropane	9.25	9.65	10	92	97	1-210	4.25	20
cis-1,3-Dichloropropene	8.45	8.83	10	85	88	1-227	4.42	20
trans-1,3-Dichloropropene	8.76	9.10	10	88	91	17-183	3.90	20
Ethylbenzene	10.1	10.3	10	101	103	37-162	1.41	20
Methyl-t-butyl ether (MTBE)	9.27	9.71	10	93	97	70-130	4.65	20
Methylene chloride	9.00	9.18	10	90	92	1-221	1.95	20
1,1,2,2-Tetrachloroethane	8.19	8.54	10	82	85	46-157	4.18	20
Tetrachloroethene	9.26	9.58	10	93	96	64-148	3.41	20
Toluene	9.24	9.50	10	92	95	47-150	2.76	20
1,1,1-Trichloroethane	9.63	10.1	10	96	101	52-162	4.34	20
1,1,2-Trichloroethane	8.80	9.42	10	88	94	52-150	6.76	20
Trichloroethene	9.37	9.75	10	94	97	71-157	3.92	20
Trichlorofluoromethane	9.51	9.90	10	95	99	17-181	3.97	20
Vinyl chloride	12.4	11.7	10	124	117	1-251	5.32	20
Xylenes, Total	29.7	30.6	30	99	102	59-128	3.01	20
Surrogate Recovery								
Dibromofluoromethane	26.0	26.6	25	104	106	83-139	2.31	20
Toluene-d8	29.2	29.5	25	117	118	87-125	1.19	20
4-BFB	2.54	2.58	2.5	102	103	74-133	1.38	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	10.4	10.2	10	ND	104	102	37-151	1.52	20
Bromodichloromethane	11.0	10.9	10	0.8027	102	101	35-155	0.749	20
Bromoform	8.05	8.15	10	ND	78	79	45-169	1.28	20
Bromomethane	16.2	15.1	10	ND	162	151	1-242	7.17	20
Carbon tetrachloride	10.5	10.4	10	ND	105	104	70-140	0.828	20
Chlorobenzene	9.99	9.89	10	ND	100	99	37-160	1.08	20
Chloroethane	10.8	10.6	10	ND	107	106	14-230	1.65	20
Chloroform	10.8	10.6	10	0.5487	102	101	51-138	1.44	20
Chloromethane	11.2	10.8	10	ND	112	107	1-273	4.50	20
Dibromochloromethane	9.57	9.51	10	0.6660	89	88	53-149	0.618	20
1,2-Dibromoethane (EDB)	9.78	9.75	10	ND	98	97	62-127	0.361	20
1,2-Dichlorobenzene	9.57	9.45	10	ND	96	95	18-190	1.26	20
1,3-Dichlorobenzene	9.79	9.68	10	ND	98	97	59-156	1.14	20
1,4-Dichlorobenzene	10.0	9.83	10	ND	100	98	18-190	2.06	20
1,1-Dichloroethane	10.2	10.1	10	ND	101	101	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	10.0	10.1	10	ND	100	101	49-155	0.683	20
1,1-Dichloroethene	10.1	9.92	10	ND	101	99	1-234	1.41	20
trans-1,2-Dichloroethene	10.4	10.3	10	ND	104	103	54-156	0.658	20
1,2-Dichloropropane	10.1	9.82	10	ND	101	98	1-210	3.08	20
cis-1,3-Dichloropropene	9.37	9.25	10	ND	94	92	1-227	1.29	20
trans-1,3-Dichloropropene	9.89	9.87	10	ND	99	99	17-183	0	20
Ethylbenzene	10.6	10.4	10	ND	106	104	37-162	2.51	20
Methyl-t-butyl ether (MTBE)	10.4	10.5	10	ND	104	105	70-130	1.78	20
Methylene chloride	8.84	8.78	10	ND	81	80	1-221	0.645	20
1,1,2,2-Tetrachloroethane	8.58	8.95	10	ND	86	89	46-157	4.15	20
Tetrachloroethene	9.74	9.58	10	ND	97	96	64-148	1.68	20
Toluene	9.82	9.67	10	ND	98	96	47-150	1.59	20
1,1,1-Trichloroethane	10.3	10.2	10	ND	103	102	52-162	1.02	20
1,1,2-Trichloroethane	9.92	9.99	10	ND	99	100	52-150	0.719	20
Trichloroethene	10.0	9.79	10	ND	100	98	71-157	2.17	20
Trichlorofluoromethane	10.1	10.0	10	ND	101	100	17-181	1.02	20
Vinyl chloride	11.2	10.8	10	ND	113	108	1-251	3.64	20
Xylenes, Total	31.6	31.1	30	ND	105	104	59-128	1.35	20
Surrogate Recovery									
Dibromofluoromethane	27.2	27.2	25		109	109	83-139	0	20
Toluene-d8	29.7	29.7	25		119	119	87-125	0	20
4-BFB	2.49	2.53	2.5		100	101	74-133	1.68	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	1.0	-	-	-
Acenaphthylene	ND	1.0	-	-	-
Anthracene	ND	1.0	-	-	-
Benzidine	ND	5.0	-	-	-
Benzo (a) anthracene	ND	1.0	-	-	-
Benzo (a) pyrene	ND	1.0	-	-	-
Benzo (b) fluoranthene	ND	1.0	-	-	-
Benzo (g,h,i) perylene	ND	1.0	-	-	-
Benzo (k) fluoranthene	ND	1.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	1.0	-	-	-
Bis (2-chloroisopropyl) Ether	ND	1.0	-	-	-
Bis (2-ethylhexyl) Adipate	ND	1.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	2.0	-	-	-
4-Bromophenyl Phenyl Ether	ND	1.0	-	-	-
Butylbenzyl Phthalate	ND	1.0	-	-	-
4-Chloroaniline	ND	2.0	-	-	-
4-Chloro-3-methylphenol	ND	1.0	-	-	-
2-Chloronaphthalene	ND	1.0	-	-	-
2-Chlorophenol	ND	1.0	-	-	-
4-Chlorophenyl Phenyl Ether	ND	1.0	-	-	-
Chrysene	ND	1.0	-	-	-
Dibenzo (a,h) anthracene	ND	1.0	-	-	-
Dibenzofuran	ND	1.0	-	-	-
Di-n-butyl Phthalate	ND	1.0	-	-	-
1,2-Dichlorobenzene	ND	1.0	-	-	-
1,3-Dichlorobenzene	ND	1.0	-	-	-
1,4-Dichlorobenzene	ND	1.0	-	-	-
3,3-Dichlorobenzidine	ND	2.0	-	-	-
2,4-Dichlorophenol	ND	1.0	-	-	-
Diethyl Phthalate	ND	1.0	-	-	-
2,4-Dimethylphenol	ND	1.0	-	-	-
Dimethyl Phthalate	ND	1.0	-	-	-
4,6-Dinitro-2-methylphenol	ND	5.0	-	-	-
2,4-Dinitrophenol	ND	5.0	-	-	-
2,4-Dinitrotoluene	ND	1.0	-	-	-
2,6-Dinitrotoluene	ND	1.0	-	-	-
Di-n-octyl Phthalate	ND	2.0	-	-	-
1,2-Diphenylhydrazine	ND	1.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Fluoranthene	ND	1.0	-	-	-
Fluorene	ND	1.0	-	-	-
Hexachlorobenzene	ND	1.0	-	-	-
Hexachlorobutadiene	ND	1.0	-	-	-
Hexachlorocyclopentadiene	ND	5.0	-	-	-
Hexachloroethane	ND	1.0	-	-	-
Indeno (1,2,3-cd) pyrene	ND	1.0	-	-	-
Isophorone	ND	1.0	-	-	-
2-Methylnaphthalene	ND	1.0	-	-	-
2-Methylphenol (o-cresol)	ND	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	-	-	-
Naphthalene	ND	1.0	-	-	-
2-Nitroaniline	ND	5.0	-	-	-
3-Nitroaniline	ND	5.0	-	-	-
4-Nitroaniline	ND	5.0	-	-	-
Nitrobenzene	ND	1.0	-	-	-
2-Nitrophenol	ND	5.0	-	-	-
4-Nitrophenol	ND	5.0	-	-	-
N-Nitrosodimethylamine	ND	5.0	-	-	-
N-Nitrosodiphenylamine	ND	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	1.0	-	-	-
Pentachlorophenol	ND	5.0	-	-	-
Phenanthrene	ND	1.0	-	-	-
Phenol	ND	1.0	-	-	-
Pyrene	ND	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	1.0	-	-	-
2,4,5-Trichlorophenol	ND	1.0	-	-	-
2,4,6-Trichlorophenol	ND	1.0	-	-	-
Surrogate Recovery					
2-Fluorophenol	21.0		20	105	29-140
Phenol-d5	22.4		20	112	38-148
Nitrobenzene-d5	23.7		20	119	31-152
2-Fluorobiphenyl	18.6		20	93	40-140
2,4,6-Tribromophenol	22.0		20	110	39-150
Terphenyl-d14	21.6		20	108	38-147

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	9.33	8.73	10	93	87	47-145	6.69	20
Acenaphthylene	10.1	9.31	10	101	93	33-145	8.30	20
Anthracene	9.10	8.42	10	91	84	27-133	7.70	20
Benzidine	35.7	33.0	50	71	66	43-106	7.75	20
Benzo (a) anthracene	9.41	8.88	10	94	89	33-143	5.84	20
Benzo (a) pyrene	9.76	8.90	10	98	89	17-163	9.17	20
Benzo (b) fluoranthene	10.0	8.80	10	100	88	24-159	12.8	20
Benzo (g,h,i) perylene	9.17	8.78	10	92	88	1-219	4.39	20
Benzo (k) fluoranthene	9.31	8.66	10	93	87	11-162	7.23	20
Bis (2-chloroethoxy) Methane	9.24	8.69	10	92	87	33-184	6.13	20
Bis (2-chloroethyl) Ether	8.67	8.28	10	87	83	12-158	4.67	20
Bis (2-chloroisopropyl) Ether	9.07	8.63	10	91	86	36-166	4.97	20
Bis (2-ethylhexyl) Adipate	9.53	8.42	10	95	84	55-122	12.3	20
Bis (2-ethylhexyl) Phthalate	9.97	8.69	10	100	87	8-158	13.7	20
4-Bromophenyl Phenyl Ether	8.69	8.06	10	87	81	53-127	7.47	20
Butylbenzyl Phthalate	10.2	9.11	10	102	91	1-152	11.7	20
4-Chloroaniline	9.57	9.06	10	96	91	63-120	5.48	20
4-Chloro-3-methylphenol	10.9	9.94	10	109	99	22-147	8.89	20
2-Chloronaphthalene	9.65	9.33	10	96	93	60-118	3.35	20
2-Chlorophenol	8.89	8.58	10	89	86	23-134	3.62	20
4-Chlorophenyl Phenyl Ether	9.61	8.92	10	96	89	25-158	7.42	20
Chrysene	9.56	9.02	10	96	90	17-168	5.82	20
Dibenzo (a,h) anthracene	8.42	7.99	10	84	80	1-227	5.25	20
Dibenzofuran	9.80	9.17	10	98	92	64-122	6.72	20
Di-n-butyl Phthalate	9.06	8.11	10	91	81	1-118	11.1	20
1,2-Dichlorobenzene	8.54	8.30	10	85	83	32-129	2.79	20
1,3-Dichlorobenzene	8.50	8.15	10	85	81	1-172	4.18	20
1,4-Dichlorobenzene	7.99	7.90	10	80	79	20-124	1.22	20
3,3-Dichlorobenzidine	10.4	9.82	10	104	98	1-262	6.23	20
2,4-Dichlorophenol	10.1	9.58	10	101	96	39-135	5.42	20
Diethyl Phthalate	10.0	9.24	10	100	92	1-114	8.24	20
2,4-Dimethylphenol	10.6	9.87	10	106	99	32-119	7.01	20
Dimethyl Phthalate	9.51	8.88	10	95	89	1-112	6.86	20
4,6-Dinitro-2-methylphenol	58.1	54.2	50	116	109	59-123	6.92	20
2,4-Dinitrophenol	57.2	54.7	50	114	109	1-191	4.42	20
2,4-Dinitrotoluene	11.7	10.8	10	117	108	39-139	7.43	20
2,6-Dinitrotoluene	11.2	10.3	10	112	103	50-158	8.06	20
Di-n-octyl Phthalate	10.1	8.32	10	101	83	4-146	19.7	20
1,2-Diphenylhydrazine	9.62	8.73	10	96	87	66-128	9.68	20

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Fluoranthene	10.1	9.18	10	101	92	26-137	9.54	20
Fluorene	10.1	9.36	10	101	94	59-121	7.75	20
Hexachlorobenzene	8.19	7.56	10	82	76	1-152	7.98	20
Hexachlorobutadiene	8.59	8.28	10	86	83	24-116	3.58	20
Hexachlorocyclopentadiene	41.0	38.5	50	82	77	36-109	6.19	20
Hexachloroethane	8.85	8.63	10	89	86	40-113	2.54	20
Indeno (1,2,3-cd) pyrene	8.35	7.93	10	83	79	1-171	5.21	20
Isophorone	10.1	9.14	10	101	91	21-196	9.99	20
2-Methylnaphthalene	9.40	8.84	10	94	88	58-122	6.14	20
2-Methylphenol (o-cresol)	9.77	9.41	10	98	94	55-121	3.85	20
3 & 4-Methylphenol (m,p-Cresol)	10.2	9.62	10	102	96	58-121	6.23	20
Naphthalene	8.26	7.98	10	83	80	21-133	3.48	20
2-Nitroaniline	56.7	51.4	50	113	103	65-124	9.65	20
3-Nitroaniline	52.5	48.1	50	105	96	67-125	8.68	20
4-Nitroaniline	55.6	50.0	50	111	100	65-124	10.5	20
Nitrobenzene	10.6	10.1	10	106	101	35-180	4.60	20
2-Nitrophenol	46.7	44.8	50	93	90	29-182	4.21	20
4-Nitrophenol	56.8	51.8	50	114	104	1-132	9.10	20
N-Nitrosodimethylamine	46.2	43.3	50	92	87	45-111	6.43	20
N-Nitrosodiphenylamine	9.18	8.56	10	92	86	67-132	7.07	20
N-Nitrosodi-n-propylamine	10.4	9.57	10	104	96	1-230	7.99	20
Pentachlorophenol	27.0	24.6	20	135	123	14-176	9.08	20
Phenanthrene	8.04	7.55	10	80	75	54-120	6.30	20
Phenol	9.13	8.58	10	91	86	5-112	6.13	20
Pyrene	9.17	8.56	10	92	86	52-115	6.85	20
1,2,4-Trichlorobenzene	8.52	8.27	10	85	83	44-142	2.91	20
2,4,5-Trichlorophenol	10.3	9.54	10	103	95	62-124	8.03	20
2,4,6-Trichlorophenol	10.1	9.36	10	101	94	37-144	7.82	20
Surrogate Recovery								
2-Fluorophenol	20.2	20.8	20	101	104	29-140	3.32	20
Phenol-d5	22.5	22.5	20	113	113	38-148	0	20
Nitrobenzene-d5	25.1	25.3	20	126	126	31-152	0	20
2-Fluorobiphenyl	21.0	20.6	20	105	103	40-140	1.84	20
2,4,6-Tribromophenol	27.9	26.8	20	139	134	39-150	3.98	20
Terphenyl-d14	23.6	22.4	20	118	112	38-147	5.40	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	3/2/18	**BatchID:**	154009
Date Analyzed:	3/2/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-154009 1802D59-001BMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Total Cyanide	ND	39.7	1.0	40	-	99	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	57.4	57.9	40	17	100	101	80-120	0.922	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/28/18	**BatchID:**	153914
Date Analyzed:	3/1/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153914 1802D59-001IMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Mercury	ND	1.70	0.20	2	-	85	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	2.03	2.05	2	ND	99	100	80-120	0.673	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Antimony	ND	51.4	0.50	50	-	103	85-115
Arsenic	ND	50.3	0.50	50	-	101	85-115
Beryllium	ND	50.3	0.50	50	-	101	85-115
Cadmium	ND	50.5	0.25	50	-	101	85-115
Chromium	ND	50.0	0.50	50	-	100	85-115
Copper	ND	50.4	2.0	50	-	101	85-115
Lead	ND	51.2	0.50	50	-	102	85-115
Mercury	ND	1.27	0.050	1.25	-	101	85-115
Nickel	ND	50.9	0.50	50	-	102	85-115
Selenium	ND	50.0	0.50	50	-	100	85-115
Silver	ND	50.4	0.19	50	-	101	85-115
Thallium	ND	48.0	0.50	50	-	96	85-115
Zinc	ND	537	15	500	-	107	85-115
Surrogate Recovery							
Terbium	768	771		750	102	103	70-130

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D59
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	51.0	52.0	50	ND	102	104	75-125	1.94	20
Arsenic	51.1	51.3	50	0.5270	101	102	75-125	0.488	20
Beryllium	49.5	50.6	50	ND	99	101	75-125	2.20	20
Cadmium	49.9	51.4	50	ND	100	102	75-125	2.92	20
Chromium	49.9	49.9	50	0.8789	98	98	75-125	0	20
Copper	75.4	76.1	50	28.08	95	96	75-125	0.898	20
Lead	49.8	51.3	50	ND	99	102	75-125	2.99	20
Mercury	1.28	1.28	1.25	ND	101	101	75-125	0	20
Nickel	51.4	52.3	50	2.890	97	99	75-125	1.73	20
Selenium	19.9	20.1	50	ND	39,F10	40,F10	75-125	1.10	20
Silver	48.4	49.7	50	ND	97	99	75-125	2.63	20
Thallium	46.7	48.2	50	ND	93	96	75-125	3.08	20
Zinc	605	623	500	120.2	97	100	75-125	2.93	20
Surrogate Recovery									
Terbium	780	799	750		104	107	70-130	2.36	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	0.650	ND	-	-
Arsenic	ND<2.5	0.5270	-	-
Beryllium	ND<2.5	ND	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	0.911	0.8789	3.65	-
Copper	27.9	28.08	0.641	-
Lead	0.460	ND	-	-
Mercury	0.0695	ND	-	-
Nickel	2.79	2.890	3.46	-
Selenium	ND<2.5	ND	-	-
Silver	ND<0.95	ND	-	-
Thallium	ND<2.5	ND	-	-
Zinc	119	120.2	0.998	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D59 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: a1he@pge.com; j5ld@pge.com; tlwy@pge.
PO:
Project: Semi-Annually Sampling (February 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 15 days; 5 days;

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1802D59-001	I-001	Water	2/28/2018 12:10	☐	G	F	C	D	E	H		I	J			
1802D59-001	I-001 W/ Bismuth Nitrate Treatment	Water	2/28/2018 12:10	☐							A					
1802D59-001	I-001 W/O Bismuth Nitrate Treatment	Water	2/28/2018 12:10	☐							B					

Test Legend:

1	1613_TCDD_W	2	608_W [J]	3	624_W	4	624ACR+2CEVE_W
5	625_W	6	ASBESTOS_E100_1M_WW	7	CN_W	8	HG_W
9	PP13MS_TTLC_W	10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION
Client Contact: Angel Espiritu
Contact's Email: abe4@pge.com
Project: Semi-Annually Sampling (February 2018)
Comments:
Work Order: 1802D59
QC Level: LEVEL 2
Date Logged: 2/28/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D59-001A	I-001 W/ Bismuth Nitrate Treatment	Water	Kelada-01 (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001B	I-001 W/O Bismuth Nitrate Treatment	Water	Kelada-01 (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001C	I-001	Water	E624 (VOCs)	4	VOA w/ HCl	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001D	I-001	Water	E624 (ACRO, ACRY, & 2-CEVE)	4	VOA, Unpres	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001E	I-001	Water	E625 (SVOCs)	4	1LA Narrow Mouth, Unpres	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001F	I-001	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	2	1LA Narrow Mouth, Unpres	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001G	I-001	Water	E1613 (2,3,7,8-TCDD only)	2	1LA Narrow Mouth, Unpres	☐	2/28/2018 12:10	15 days	Present	☐	
1802D59-001H	I-001	Water	Asbestos - E100.1, modified EPA Protocol (MFL)	2	1LA, Unpres	☐	2/28/2018 12:10	5 days	Present	☐	SubOut
1802D59-001I	I-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	2/28/2018 12:10	5 days	Present	☐	
1802D59-001J	I-001	Water	E200.8 (PP13 Metals)	1	250mL HDPE w/ HNO3	☐	2/28/2018 12:10	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1802D59

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, 925-861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (February 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	1613 TCDD	Asbestos E100.1	PPL3 Metals	Hg 245	Remarks
I-001		G	2/28/18	12:10	1	250 ml poly Amb	X			X		X				X									
I-001		G	2/28/18	12:10	2	43-ml VOA	X			X			X				X									
I-001		G	2/28/18	12:10	2	43-ml VOA	X			X							X									
I-001		G	2/28/12	12:10	1	1L Amb	X		X	X								X								
I-001		G	2/28/12	12:10	1	1L Amb	X		X	X									X							
I-001		G	2/28/12	see attached container sheet		See Appendix B	X													X	X	X	X	X		

Relinquished By:	Date: 2/28/18	Time: 14:55	Received By:
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.4
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

PRESERVATION VOAS O&G METALS OTHER pH<2

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

Lab to pretreat with bismuth nitrate for CN- (report results with & without)

APPENDIX A

District Local Discharge Limits include a parameter called Total Toxic Organics (TTO). The required analytical methods for TTO analysis are listed in 40 CFR Part 136 and include the following EPA methods: 624,625, 608, and 1613, respectively. Unless specifically required, EPA method 1613 for dioxins is not mandatory for routine TTO analysis. The constituents with concentrations greater than the minimum limit/reporting limit must be added together to determine compliance with the District's Local Discharge Limit for TTO of 2.0 mg/L. The following is a list of the constituents of TTO:

EPA Method 624 Compounds

Acrolein
Acrylonitrile
Benzene
Bromodichloromethane (Dichlorobromomethane)
Bromform
Brommomethane (Methyl Bromide)
Carbon tetrachloride (Tetrachloromethane)
Chlorobenzene
Chloroethane (Ethyl Chloride)
2-Chloroethyl vinyl ether
Chloroform (trichloromethane)
Chloromethane (Methyl Chloride)
Dibromochloromethane (Chlorodibromomethane)
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethene (1, 1-dichloroethylene)
trans-1, 2-Dichloroethene
1, 2-Dichloropropane
cis-1, 3-Dichloropropene
trans-1, 3-Dichloropropene
Ethylbenzene
Methylene Chloride (Dichloromethane)
1, 1, 2, 2,-Tetrachloroethane
Tetrachloroethene (PCE)
Toluene
1, 1, 1-Trichloreothane
1, 1, 2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
Vinyl chloride (Chloroethylene)

EPA Method 625 Compounds

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g, h, i) perylene
Benzo (k) fluoranthene
Benzyl butyl phthalate
bis (2-Chloroethoxy) methane
bis (2-Chloroethyl) ether
bis (2-Chloroisopropyl) ether
bis (2-Ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenyl
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine
2, 4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethylphthalate
Di-n-butylphthalate
2, 4-Dinitrophenol
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octylphthalate
1.2-Diphenylhydrazine/Azo
Fluoranthene
Fluorene
Hexachlorobenzene
Hexchlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene
Isophorone
2-Methyl-4, 6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
1, 2, 4-Trichlorobenzene
2, 4, 6-Trichlorophenol

EPA Method 608 Compounds

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Chlordane
4, 4'-DDD
4, 4'-DDE
4,4'DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Toxaphene

APPENDIX B

(for 40 CFR part 423 - 126 Priority Pollutants)

001 Acenaphthene
002 Acrolein
003 Acrylonitrile
004 Benzene
005 Benzidine
006 Carbon tetrachloride (tetrachloromethane)
007 Chlorobenzene
008 1, 2, 4-trichlorobenzene
009 Hexachlorobenzene
010 1, 2-dichloroethane
011 1, 1, 1-trichloreothane
012 Hexachloroethane
013 1, 1-dichloroethane
014 1, 1, 2-trichloroethane
015 1, 1, 2, 2-tetrachloroethane
016 Chloroethane
017 Bis (2-chloroethyl) ether
018 2-chloroethyl vinyl ether (mixed)
019 2-chloronaphthalene
020 2, 4, 6-trichlorophenol
021 Parachlorometa cresol
022 Chloroform (trichloromethane)
023 2-chlorophenol
024 1,2-dichlorobenzene (benzo(b)fluoranthene)
025 1,3-dichlorobenzene (benzo(b)fluoranthene)
026 1, 4-dichlorobenzene
027 3, 3-dichlorobenzidine
028 1, 1-dichloroethylene
029 1, 2-trans-dichloroethylene
030 2, 4-dichlorophenol
031 1, 2-dichloropropane
032 1, 2-dichloropropylene (1, 3-dichloropropene)
033 2, 4-dimethylphenol
034 2, 4-dinitrotoluene
035 2, 6-dinitrotoluene
036 1, 2-diphenylhydrazine
037 Ethylbenzene
038 Fluoranthene
039 4-chlorophenyl phenyl ether
040 4-bromophenyl phenyl ether
041 Bis(2-chloroisopropyl) ether
042 Bis(2-chloroethoxy) methane
043 Methylene chloride (dichloromethane)
044 Methyl chloride (dichloromethane)
045 Methyl bromide (bromomethane)
046 Bromoform (tribromomethane)
047 Dichlorobromomethane
048 Chlorodibromomethane
049 Hexachlorobutadiene
050 Hexachloromyclopentadiene
051 Isophorone
052 Naphthalene
053 Nitrobenzene
054 2-Nitrophenol
055 4-nitrophenol
056 2, 4-dinitrophenol
057 4, 6-dinitro-o-cresol
058 N-nitrosodimethylamine
059 N-nitrosodiphenylamine
060 N-nitrosodi-n-propylamine
061 Pentachlorophenol
062 Phenol
063 Bis(2-ethylhexyl) phthalate
064 Butyl benzyl phthalate
065 Di-N-Butyl Phthalate
066 Di-n-octyl Phthalate
067 Diethyl Phthalate
068 Dimethyl phthalate
069 1, 2-benzanthracene (benzo(a)anthracene)
070 Benzo(a)pyrene (3, 4-benzo-pyrene)
071 3,4-Benzofluoranthene (benzo(b) fluoranthene)
072 11,12-benzofluoranthene (benzo(b) fluoranthene
073 Chrysene
074 Acenaphthylene
075 Anthracene
076 1, 12-benzoperylene (benzo(ghi) perylene
077 Fluorene
078 Phenanthrene
079 1, 2, 5, 6-dibenzanthracene (dibenzo(a,h)anthracene)
080 Indeno (1, 2, 3-cd) pyrene (2, 3-o-pheynylene pyrene)
081 Pyrene
082 Tetrachloroethylene
083 Toluene
084 Trichloroethylene
085 Vinyl chloride (chloroethylene)
086 Aldrin
087 Dieldrin
088 Chlordane (technical mixture and metabolites)
089 4, 4-DDT
090 4, 4-DDE (p, p-DDX)
091 4, 4-DDD (p, p-TDE)
092 Alpha-endosulfan
093 Beta-endosulfan
094 Endosulfan sulfate
095 Endrin
096 Endrin aldehyde
097 Heptachlor
098 Heptachlor epoxide (BHC-hexachlorocyclohexane)
099 Alpha-BHC
100 Beta-BHC
101 Gamma-BHC (lindane)
102 Delta-BHC (PCB-polychlorinated bi-phenyls)
103 PCB-1242 (Arochlor 1242)
104 PCB-1254 (Arochlor 1254)
105 PCB-1221 (Arochlor 1221)
106 PCB-1232 (Arochlor 1232)
107 PCB-1248 (Arochlor 1248)
108 PCB-1260 (Arochlor 1260)
109 PCB-1016 (Arochlor 1016)
110 Toxaphene
111 Antimony
112 Arsenic
113 Asbestos
114 Beryllium
115 Cadmium
116 Chromium
117 Copper
118 Cyanide, (Total)
119 Lead
120 Mercury
121 Nickel
122 Selenium
123 Silver
124 Thallium
125 Zinc
126 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)

Sampling Containers for APPENDIX B

Sample ID:	Date:	Time:	# Containers	Container Type	Preservative:	Composite/Grab
I-001	2/28/18	12:10	8	Amber Glass 1L	NP	Grab
I-001	2/28/18	12:10	2	VOA 40 mL	NP	Grab
I-001	2/28/18	12:10	2	VOA 40 mL	HCl	Grab
I-001	2/28/18	11:55	2	POLY 250 ml	HNO_3	Composite
I-001	2/28/18	12:10	1	Amber Poly 250 mL (pretreated with sodium thiosulfate)	NaOH	Grab

Lab to pretreat with bismuth nitrate for CN- (report results with & without)

2/28/18 14:55

Rec'd @ MAI: 2/28/18 1455

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**2/28/2018 14:55**
Project:	**Semi-Annually Sampling (February 2018)**	Date Logged:	**2/28/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1802D59** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 3.6°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA ☐
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA ☐
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Forensic Analytical LABORATORIES

ANALYSIS REPORT
ASBESTOS IN WASTE WATER
Transmission Electron Microscopy*

Client:	McCampbell Analytical, Inc.		
Contact:	Account Payable	Client Number:	A31409
Street:	1534 Willow Pass Rd	Report Number:	T029735
City/state/zip:	Pittsburg, CA 94565	Date Received:	3/1/18
Site:	Semi-Annually Sampling (Feb 2018)	Date filtered:	3/1/18
Job ID/PO:	1802D59	Analyst(s):	MZ
Date Collected:	2/28/18	Date Analyzed:	3/5/18
Hold time, hrs	<48	Date Reported:	3/8/18
Filter type:	25mm MCE		
Pore size:	0.22 µm		

ANALYTICAL RESULTS

Client Sample Number	1802D59-001H				
Lab Sample Number	20118721				
Volume Filtered, mL	30				
Filter Area, mm^2	190				
Grid Opening Area, mm^2	0.0089				
Number of GOs Analyzed	4				
Area Analyzed, mm^2	0.0356				
# Asbestos Fibers, total	0				
# Asbestos Fibers ≥10µm	0				
Analytical Sensitivity, MFL	0.2				
Asbestos Concentration, Total, MFL	**<0.2**				
≥10 micron length	**<0.2**				
Asbestos Type(s) Detected**	ND				
95% Upper Conf. Limit	0.7				
95% Lower Conf. Limit	0.0				

Mark S. Floyd, Analytical Microscopy Supervisor

* EPA Method 100.1 (EPA/600/R-94/134). Results are reported in Millions of Fibers per Liter (MFL)

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected; NA-Not Analyzed; n/a=not applicable (i.e., divide by 0); OV=overloaded; BL=blank sample; PF=prepped not analyzed. Confidence Limits relate to total asbestos fibers reported.

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Attachment 8c
Laboratory Results
Semi-annual Monitoring of Combined Waste Stream
(E-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1802D57

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Semi-Annually Sampling (February 2018)

Project Received: 02/28/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (February 2018)
WorkOrder: 1802D57

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (February 2018)
WorkOrder: 1802D57

Analytical Qualifiers

a3	Sample diluted due to high organic content.
h3	Elemental sulfur (EPA 3660) cleanup
j1	See attached narrative

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (February 2018)

Work Order: 1802D57
March 07, 2018

Our standard ICP-MS analytical procedure is to analyze selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E1664A_SG
Date Prepared:	3/6/18	**Analytical Method:**	E1664A
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 2/27/18	1802D57-001B	Water	02/27/2018 10:00	O&G	154257

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	**8.7**	5.1	1	03/07/2018 11:30

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002B	Water	02/28/2018 10:20	O&G	154257

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	03/07/2018 11:35

Analyst(s): HN

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E1664A
Date Prepared:	3/2/18	**Analytical Method:**	E1664A
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 2/27/18	1802D57-001A	Water	02/27/2018 10:00	O&G	154033

Analytes	Result	RL	DF	Date Analyzed
HEM	**21**	5.0	1	03/05/2018 14:35

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002A	Water	02/28/2018 10:20	O&G	154033

Analytes	Result	RL	DF	Date Analyzed
HEM	**14**	5.0	1	03/05/2018 14:40

Analyst(s): HN

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E608/SW3620B
Date Prepared:	3/1/18	**Analytical Method:**	E608
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002G	Water	02/28/2018 10:20	GC20 03021847.D	153939

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.014	0.050	50	03/02/2018 23:14
a-BHC	ND	0.016	0.050	50	03/02/2018 23:14
b-BHC	ND	0.035	0.050	50	03/02/2018 23:14
d-BHC	ND	0.0070	0.050	50	03/02/2018 23:14
g-BHC	ND	0.022	0.050	50	03/02/2018 23:14
Chlordane (Technical)	ND	0.12	1.0	50	03/02/2018 23:14
a-Chlordane	ND	0.043	0.050	50	03/02/2018 23:14
g-Chlordane	ND	0.0075	0.050	50	03/02/2018 23:14
p,p-DDD	ND	0.0055	0.050	50	03/02/2018 23:14
p,p-DDE	ND	0.0090	0.050	50	03/02/2018 23:14
p,p-DDT	ND	0.0085	0.050	50	03/02/2018 23:14
Dieldrin	ND	0.0070	0.050	50	03/02/2018 23:14
Endosulfan I	ND	0.0055	0.050	50	03/02/2018 23:14
Endosulfan II	ND	0.023	0.050	50	03/02/2018 23:14
Endosulfan sulfate	ND	0.016	0.10	50	03/02/2018 23:14
Endrin	ND	0.0090	0.050	50	03/02/2018 23:14
Endrin aldehyde	ND	0.026	0.050	50	03/02/2018 23:14
Endrin ketone	ND	0.013	0.050	50	03/02/2018 23:14
Heptachlor	ND	0.020	0.050	50	03/02/2018 23:14
Heptachlor epoxide	ND	0.012	0.050	50	03/02/2018 23:14
Methoxychlor	ND	0.0060	0.050	50	03/02/2018 23:14
Toxaphene	ND	0.10	1.0	50	03/02/2018 23:14
Aroclor1016	ND	0.095	1.0	50	03/02/2018 23:14
Aroclor1221	ND	0.12	1.0	50	03/02/2018 23:14
Aroclor1232	ND	0.19	1.0	50	03/02/2018 23:14
Aroclor1242	ND	0.14	1.0	50	03/02/2018 23:14
Aroclor1248	ND	0.090	1.0	50	03/02/2018 23:14
Aroclor1254	ND	0.075	1.0	50	03/02/2018 23:14
Aroclor1260	ND	0.14	1.0	50	03/02/2018 23:14
PCBs, total	ND	0.075	1.0	50	03/02/2018 23:14

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	113	70-130	03/02/2018 23:14

Analyst(s): CK

Analytical Comments: a3,h3

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002E	Water	02/28/2018 10:20	GC28 03011808.D	153993

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	03/01/2018 11:20
Acrylonitrile	ND	2.0	1	03/01/2018 11:20
2-Chloroethyl Vinyl Ether	ND	1.0	1	03/01/2018 11:20

Surrogates	REC (%)	Limits	
Dibromofluoromethane	116	78-141	03/01/2018 11:20

Analyst(s): AK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002D	Water	02/28/2018 10:20	GC16 03011822.D	153994

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	03/01/2018 21:38
Bromodichloromethane	ND	0.50	1	03/01/2018 21:38
Bromoform	ND	0.50	1	03/01/2018 21:38
Bromomethane	ND	0.50	1	03/01/2018 21:38
Carbon tetrachloride	ND	0.50	1	03/01/2018 21:38
Chlorobenzene	ND	0.50	1	03/01/2018 21:38
Chloroethane	ND	0.50	1	03/01/2018 21:38
Chloroform	ND	0.50	1	03/01/2018 21:38
Chloromethane	ND	0.50	1	03/01/2018 21:38
Dibromochloromethane	ND	0.50	1	03/01/2018 21:38
1,2-Dibromoethane (EDB)	ND	0.50	1	03/01/2018 21:38
1,2-Dichlorobenzene	ND	0.50	1	03/01/2018 21:38
1,3-Dichlorobenzene	ND	0.50	1	03/01/2018 21:38
1,4-Dichlorobenzene	ND	0.50	1	03/01/2018 21:38
1,1-Dichloroethane	ND	0.50	1	03/01/2018 21:38
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/01/2018 21:38
1,1-Dichloroethene	ND	0.50	1	03/01/2018 21:38
trans-1,2-Dichloroethene	ND	0.50	1	03/01/2018 21:38
1,2-Dichloropropane	ND	0.50	1	03/01/2018 21:38
cis-1,3-Dichloropropene	ND	0.50	1	03/01/2018 21:38
trans-1,3-Dichloropropene	ND	0.50	1	03/01/2018 21:38
Ethylbenzene	ND	0.50	1	03/01/2018 21:38
Methyl-t-butyl ether (MTBE)	ND	0.50	1	03/01/2018 21:38
Methylene chloride	ND	1.0	1	03/01/2018 21:38
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/01/2018 21:38
Tetrachloroethene	ND	0.50	1	03/01/2018 21:38
Toluene	**1.3**	0.50	1	03/01/2018 21:38
1,1,1-Trichloroethane	ND	0.50	1	03/01/2018 21:38
1,1,2-Trichloroethane	ND	0.50	1	03/01/2018 21:38
Trichloroethene	ND	0.50	1	03/01/2018 21:38
Trichlorofluoromethane	ND	0.50	1	03/01/2018 21:38
Vinyl chloride	ND	0.50	1	03/01/2018 21:38
Xylenes, Total	ND	0.50	1	03/01/2018 21:38

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E624
Date Prepared:	3/1/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	**1802D57-002D**	**Water**	**02/28/2018 10:20**	**GC16 03011822.D**	**153994**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	107	78-141		03/01/2018 21:38
Toluene-d8	121	78-129		03/01/2018 21:38
4-BFB	93	61-140		03/01/2018 21:38

Analyst(s): AK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002F	Water	02/28/2018 10:20	GC17 03011821.D	153838

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	48	50	03/01/2018 20:01
Acenaphthylene	ND	48	50	03/01/2018 20:01
Anthracene	ND	48	50	03/01/2018 20:01
Benzidine	ND	240	50	03/01/2018 20:01
Benzo (a) anthracene	ND	48	50	03/01/2018 20:01
Benzo (a) pyrene	ND	48	50	03/01/2018 20:01
Benzo (b) fluoranthene	ND	48	50	03/01/2018 20:01
Benzo (g,h,i) perylene	ND	48	50	03/01/2018 20:01
Benzo (k) fluoranthene	ND	48	50	03/01/2018 20:01
Bis (2-chloroethoxy) Methane	ND	48	50	03/01/2018 20:01
Bis (2-chloroethyl) Ether	ND	48	50	03/01/2018 20:01
Bis (2-chloroisopropyl) Ether	ND	48	50	03/01/2018 20:01
Bis (2-ethylhexyl) Adipate	ND	48	50	03/01/2018 20:01
Bis (2-ethylhexyl) Phthalate	ND	96	50	03/01/2018 20:01
4-Bromophenyl Phenyl Ether	ND	48	50	03/01/2018 20:01
Butylbenzyl Phthalate	ND	48	50	03/01/2018 20:01
4-Chloroaniline	ND	96	50	03/01/2018 20:01
4-Chloro-3-methylphenol	ND	48	50	03/01/2018 20:01
2-Chloronaphthalene	ND	48	50	03/01/2018 20:01
2-Chlorophenol	ND	48	50	03/01/2018 20:01
4-Chlorophenyl Phenyl Ether	ND	48	50	03/01/2018 20:01
Chrysene	ND	48	50	03/01/2018 20:01
Dibenzo (a,h) anthracene	ND	48	50	03/01/2018 20:01
Dibenzofuran	ND	48	50	03/01/2018 20:01
Di-n-butyl Phthalate	ND	48	50	03/01/2018 20:01
1,2-Dichlorobenzene	ND	48	50	03/01/2018 20:01
1,3-Dichlorobenzene	ND	48	50	03/01/2018 20:01
1,4-Dichlorobenzene	ND	48	50	03/01/2018 20:01
3,3-Dichlorobenzidine	ND	96	50	03/01/2018 20:01
2,4-Dichlorophenol	ND	48	50	03/01/2018 20:01
Diethyl Phthalate	ND	48	50	03/01/2018 20:01
2,4-Dimethylphenol	ND	48	50	03/01/2018 20:01
Dimethyl Phthalate	ND	48	50	03/01/2018 20:01
4,6-Dinitro-2-methylphenol	ND	240	50	03/01/2018 20:01
2,4-Dinitrophenol	ND	240	50	03/01/2018 20:01
2,4-Dinitrotoluene	ND	48	50	03/01/2018 20:01
2,6-Dinitrotoluene	ND	48	50	03/01/2018 20:01

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	**1802D57-002F**	**Water**	**02/28/2018 10:20**	**GC17 03011821.D**	**153838**

Analytes	Result	RL	DF	Date Analyzed
Di-n-octyl Phthalate	ND	96	50	03/01/2018 20:01
1,2-Diphenylhydrazine	ND	48	50	03/01/2018 20:01
Fluoranthene	ND	48	50	03/01/2018 20:01
Fluorene	ND	48	50	03/01/2018 20:01
Hexachlorobenzene	ND	48	50	03/01/2018 20:01
Hexachlorobutadiene	ND	48	50	03/01/2018 20:01
Hexachlorocyclopentadiene	ND	240	50	03/01/2018 20:01
Hexachloroethane	ND	48	50	03/01/2018 20:01
Indeno (1,2,3-cd) pyrene	ND	48	50	03/01/2018 20:01
Isophorone	ND	48	50	03/01/2018 20:01
2-Methylnaphthalene	ND	48	50	03/01/2018 20:01
2-Methylphenol (o-cresol)	ND	48	50	03/01/2018 20:01
3 & 4-Methylphenol (m,p-Cresol)	**53**	48	50	03/01/2018 20:01
Naphthalene	ND	48	50	03/01/2018 20:01
2-Nitroaniline	ND	240	50	03/01/2018 20:01
3-Nitroaniline	ND	240	50	03/01/2018 20:01
4-Nitroaniline	ND	240	50	03/01/2018 20:01
Nitrobenzene	ND	48	50	03/01/2018 20:01
2-Nitrophenol	ND	240	50	03/01/2018 20:01
4-Nitrophenol	ND	240	50	03/01/2018 20:01
N-Nitrosodimethylamine	ND	240	50	03/01/2018 20:01
N-Nitrosodiphenylamine	ND	48	50	03/01/2018 20:01
N-Nitrosodi-n-propylamine	ND	48	50	03/01/2018 20:01
Pentachlorophenol	ND	240	50	03/01/2018 20:01
Phenanthrene	ND	48	50	03/01/2018 20:01
Phenol	ND	48	50	03/01/2018 20:01
Pyrene	ND	48	50	03/01/2018 20:01
1,2,4-Trichlorobenzene	ND	48	50	03/01/2018 20:01
2,4,5-Trichlorophenol	ND	48	50	03/01/2018 20:01
2,4,6-Trichlorophenol	ND	48	50	03/01/2018 20:01

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E625
Date Prepared:	2/28/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	**1802D57-002F**	**Water**	**02/28/2018 10:20**	**GC17 03011821.D**	**153838**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	47	8-130		03/01/2018 20:01
Phenol-d5	34	5-130		03/01/2018 20:01
Nitrobenzene-d5	86	20-140		03/01/2018 20:01
2-Fluorobiphenyl	97	40-140		03/01/2018 20:01
2,4,6-Tribromophenol	108	16-180		03/01/2018 20:01
Terphenyl-d14	128	40-170		03/01/2018 20:01

Analyst(s): REB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E350.1
Date Prepared:	3/1/18	**Analytical Method:**	E350.1
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Ammonia As Nitrogen

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002C	Water	02/28/2018 10:20	WC_SKALAR 030118C1_69	153927

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	**48**	2.0	20	03/01/2018 17:44

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	SM5210B
Date Prepared:	2/28/18	**Analytical Method:**	SM5210 B-2001
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	**1802D57-003B**	**Water**	**02/28/2018 10:05**	**WetChem**	**153897**

Analytes	Result	RL	DF	Date Analyzed
BOD	**52**	20	5	03/05/2018 17:46

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/2/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	1802D57-002H	Water	02/28/2018 10:20	WC_SKALAR 030218A1_23	154009

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**8.4**	1.0	1	03/02/2018 12:29

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	SM5220 D-1997
Date Prepared:	3/6/18	**Analytical Method:**	SM5220 D-1997
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	**1802D57-003C**	**Water**	**02/28/2018 10:05**	**SPECTROPHOTOMETER**	**154076**

Analytes	Result	RL	DF	Date Analyzed
COD	**190**	10	1	03/06/2018 11:10

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E245.2
Date Prepared:	2/28/18	**Analytical Method:**	E245.2
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	1802D57-003A	Water	02/28/2018 10:05	AA1 _21	153840

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	03/01/2018 12:14

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E200.8
Date Prepared:	2/28/18	**Analytical Method:**	E200.8
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	**1802D57-003F**	**Water**	**02/28/2018 10:05**	**ICP-MS1 012SMPL.D**	**153903**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**0.53**	0.50	1	03/01/2018 09:02
Cadmium	ND	0.25	1	03/01/2018 09:02
Chromium	**0.88**	0.50	1	03/01/2018 09:02
Copper	**28**	2.0	1	03/01/2018 09:02
Iron	**600**	20	1	03/01/2018 09:02
Lead	ND	0.50	1	03/01/2018 09:02
Molybdenum	**140**	0.50	1	03/01/2018 09:02
Nickel	**2.9**	0.50	1	03/01/2018 09:02
Selenium	ND	0.50	1	03/01/2018 09:02
Silver	ND	0.19	1	03/01/2018 09:02
Zinc	**120**	15	1	03/01/2018 09:02

Surrogates	REC (%)	Limits	
Terbium	111	70-130	03/01/2018 09:02

Analyst(s): ND Analytical Comments: j1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	E420.4
Date Prepared:	3/6/18	**Analytical Method:**	E420.4
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Grab	**1802D57-002C**	**Water**	**02/28/2018 10:20**	**WC_SKALAR 030618C1_39**	**154172**

Analytes	Result	RL	DF	Date Analyzed
Phenolics	**87.7**	4.0	2	03/06/2018 17:28

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	SM2540 C-1997
Date Prepared:	3/1/18	**Analytical Method:**	SM2540 C-1997
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	**1802D57-003D**	**Water**	**02/28/2018 10:05**	**WetChem**	**153964**

Analytes	Result	RL	DF	Date Analyzed
Total Dissolved Solids	**437**	10.0	1	03/02/2018 16:45

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Received:	2/28/18 14:55	**Extraction Method:**	SM2540 D-1997
Date Prepared:	3/1/18	**Analytical Method:**	SM2540 D-1997
Project:	Semi-Annually Sampling (February 2018)	**Unit:**	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 Composite	**1802D57-003E**	**Water**	**02/28/2018 10:05**	**WetChem**	**153935**

Analytes	Result	RL	DF	Date Analyzed
Total Suspended Solids	**54.5**	5.00	5	03/01/2018 13:45

Analyst(s): AL

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/7/18	**BatchID:**	154257
Date Analyzed:	3/7/18	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-154257

QC Summary Report for E1664A

Analyte	MB Result	RL			
SGT-HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.62	9.78	10.42	92	94	64-132	1.57	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/2/18	**BatchID:**	154033
Date Analyzed:	3/5/18	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-154033

QC Summary Report for E1664A

Analyte	MB Result	RL			
HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	19.8	19.1	20.83	95	92	78-114	3.29	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
PCBs, total	ND	0.0015	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0373			0.050	75	70-130

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0404	0.0453	0.050	81	91	42-122	11.4	20
a-BHC	0.0508	0.0503	0.050	102	101	37-134	0.969	20
b-BHC	0.0474	0.0475	0.050	95	95	17-147	0	20
d-BHC	0.0521	0.0510	0.050	104	102	19-140	2.23	20
g-BHC	0.0507	0.0511	0.050	101	102	32-127	0.770	20
a-Chlordane	0.0399	0.0434	0.050	80	87	40-140	8.53	20
g-Chlordane	0.0454	0.0492	0.050	91	98	40-140	7.98	20
p,p-DDD	0.0448	0.0514	0.050	90	103	31-141	13.8	20
p,p-DDE	0.0433	0.0479	0.050	87	96	30-145	10.1	20
p,p-DDT	0.0502	0.0526	0.050	101	105	25-160	4.65	20
Dieldrin	0.0476	0.0516	0.050	95	103	36-146	8.25	20
Endosulfan I	0.0461	0.0500	0.050	92	100	45-153	8.06	20
Endosulfan II	0.0431	0.0465	0.050	86	93	0-202	7.58	20
Endosulfan sulfate	0.0438	0.0462	0.050	88	92	26-144	5.42	20
Endrin	0.0455	0.0479	0.050	91	96	30-147	5.14	20
Endrin aldehyde	0.0438	0.0464	0.050	88	93	40-140	5.87	20
Endrin ketone	0.0411	0.0454	0.050	82	91	40-140	10.1	20
Heptachlor	0.0464	0.0495	0.050	93	99	34-111	6.42	20
Heptachlor epoxide	0.0425	0.0453	0.050	85	91	37-142	6.37	20
Methoxychlor	0.0437	0.0481	0.050	87	96	40-140	9.51	20
Aroclor1016	0.0900	0.0958	0.15	60	64	50-114	6.29	20
Aroclor1260	0.110	0.106	0.15	73	71	8-127	3.46	20
Surrogate Recovery								
Decachlorobiphenyl	0.0351	0.0413	0.050	70	83	70-130	16.2	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	NR	NR		ND<0.01	NR	NR	-	NR	-
a-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
b-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
d-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
g-BHC	NR	NR		ND<0.01	NR	NR	-	NR	-
a-Chlordane	NR	NR		ND<0.01	NR	NR	-	NR	-
g-Chlordane	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDD	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDE	NR	NR		ND<0.01	NR	NR	-	NR	-
p,p-DDT	NR	NR		ND<0.01	NR	NR	-	NR	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153939
Date Analyzed:	3/1/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC20	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153939 1802D74-001FMS/MSD

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Dieldrin	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan I	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan II	NR	NR		ND<0.01	NR	NR	-	NR	-
Endosulfan sulfate	NR	NR		ND<0.02	NR	NR	-	NR	-
Endrin	NR	NR		ND<0.01	NR	NR	-	NR	-
Endrin aldehyde	NR	NR		ND<0.01	NR	NR	-	NR	-
Endrin ketone	NR	NR		ND<0.01	NR	NR	-	NR	-
Heptachlor	NR	NR		ND<0.01	NR	NR	-	NR	-
Heptachlor epoxide	NR	NR		ND<0.01	NR	NR	-	NR	-
Methoxychlor	NR	NR		ND<0.01	NR	NR	-	NR	-
Aroclor1016	NR	NR		ND<0.2	NR	NR	-	NR	-
Aroclor1260	NR	NR		ND<0.2	NR	NR	-	NR	-
Surrogate Recovery									
Decachlorobiphenyl	NR	NR			NR	NR	-	NR	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153993
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153993 1802D59-001DMS/MSD

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	5.0	-	-	-
Acrylonitrile	ND	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	1.0	-	-	-
Surrogate Recovery					
Dibromofluoromethane	28.2		25	113	83-139

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	23.4	22.6	20	117	113	70-130	3.44	20
Acrylonitrile	24.7	25.6	20	123	128	70-130	3.53	20
2-Chloroethyl Vinyl Ether	16.4	17.6	20	82	88	70-130	6.67	20
Surrogate Recovery								
Dibromofluoromethane	28.4	28.8	25	114	115	83-139	1.15	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acrolein (Propenal)	14.4	9.86	20	ND	72	49,F1	70-130	37.4,F1	20
Acrylonitrile	21.9	22.5	20	ND	110	113	70-130	2.70	20
2-Chloroethyl Vinyl Ether	20.0	20.9	20	ND	100	104	70-130	4.15	20
Surrogate Recovery									
Dibromofluoromethane	27.9	27.8	25		111	111	78-141	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.20	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	0.771	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
Vinyl chloride	ND	0.50	-	-	-
Xylenes, Total	ND	0.50	-	-	-
Surrogate Recovery					
Dibromofluoromethane	26.0		25	104	83-139
Toluene-d8	30.3		25	121	87-125
4-BFB	2.45		2.5	98	74-133

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	9.74	10.1	10	97	101	37-151	3.19	20
Bromodichloromethane	9.26	9.57	10	93	96	35-155	3.35	20
Bromoform	7.29	7.69	10	73	77	45-169	5.35	20
Bromomethane	16.5	15.4	10	165	155	1-242	6.37	20
Carbon tetrachloride	9.70	10.1	10	97	101	70-140	4.42	20
Chlorobenzene	9.51	9.66	10	95	97	37-160	1.53	20
Chloroethane	12.7	11.5	10	127	115	14-230	9.34	20
Chloroform	9.42	9.86	10	94	99	51-138	4.57	20
Chloromethane	11.4	11.1	10	114	111	1-273	3.34	20
Dibromochloromethane	8.04	8.43	10	80	84	53-149	4.69	20
1,2-Dibromoethane (EDB)	8.78	9.31	10	88	93	62-127	5.83	20
1,2-Dichlorobenzene	8.80	9.27	10	88	93	18-190	5.24	20
1,3-Dichlorobenzene	9.20	9.56	10	92	96	59-156	3.84	20
1,4-Dichlorobenzene	9.25	9.64	10	92	96	18-190	4.15	20
1,1-Dichloroethane	9.55	9.82	10	96	98	70-130	2.80	20
1,2-Dichloroethane (1,2-DCA)	9.10	9.54	10	91	95	49-155	4.73	20
1,1-Dichloroethene	9.60	10.0	10	96	100	1-234	4.33	20
trans-1,2-Dichloroethene	9.73	10.1	10	97	101	54-156	4.12	20
1,2-Dichloropropane	9.25	9.65	10	92	97	1-210	4.25	20
cis-1,3-Dichloropropene	8.45	8.83	10	85	88	1-227	4.42	20
trans-1,3-Dichloropropene	8.76	9.10	10	88	91	17-183	3.90	20
Ethylbenzene	10.1	10.3	10	101	103	37-162	1.41	20
Methyl-t-butyl ether (MTBE)	9.27	9.71	10	93	97	70-130	4.65	20
Methylene chloride	9.00	9.18	10	90	92	1-221	1.95	20
1,1,2,2-Tetrachloroethane	8.19	8.54	10	82	85	46-157	4.18	20
Tetrachloroethene	9.26	9.58	10	93	96	64-148	3.41	20
Toluene	9.24	9.50	10	92	95	47-150	2.76	20
1,1,1-Trichloroethane	9.63	10.1	10	96	101	52-162	4.34	20
1,1,2-Trichloroethane	8.80	9.42	10	88	94	52-150	6.76	20
Trichloroethene	9.37	9.75	10	94	97	71-157	3.92	20
Trichlorofluoromethane	9.51	9.90	10	95	99	17-181	3.97	20
Vinyl chloride	12.4	11.7	10	124	117	1-251	5.32	20
Xylenes, Total	29.7	30.6	30	99	102	59-128	3.01	20
Surrogate Recovery								
Dibromofluoromethane	26.0	26.6	25	104	106	83-139	2.31	20
Toluene-d8	29.2	29.5	25	117	118	87-125	1.19	20
4-BFB	2.54	2.58	2.5	102	103	74-133	1.38	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153994
Date Analyzed:	3/1/18	**Extraction Method:**	E624
Instrument:	GC16	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153994 1802D59-001CMS/MSD

QC Summary Report for E624

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzene	10.4	10.2	10	ND	104	102	37-151	1.52	20
Bromodichloromethane	11.0	10.9	10	0.8027	102	101	35-155	0.749	20
Bromoform	8.05	8.15	10	ND	78	79	45-169	1.28	20
Bromomethane	16.2	15.1	10	ND	162	151	1-242	7.17	20
Carbon tetrachloride	10.5	10.4	10	ND	105	104	70-140	0.828	20
Chlorobenzene	9.99	9.89	10	ND	100	99	37-160	1.08	20
Chloroethane	10.8	10.6	10	ND	107	106	14-230	1.65	20
Chloroform	10.8	10.6	10	0.5487	102	101	51-138	1.44	20
Chloromethane	11.2	10.8	10	ND	112	107	1-273	4.50	20
Dibromochloromethane	9.57	9.51	10	0.6660	89	88	53-149	0.618	20
1,2-Dibromoethane (EDB)	9.78	9.75	10	ND	98	97	62-127	0.361	20
1,2-Dichlorobenzene	9.57	9.45	10	ND	96	95	18-190	1.26	20
1,3-Dichlorobenzene	9.79	9.68	10	ND	98	97	59-156	1.14	20
1,4-Dichlorobenzene	10.0	9.83	10	ND	100	98	18-190	2.06	20
1,1-Dichloroethane	10.2	10.1	10	ND	101	101	70-130	0	20
1,2-Dichloroethane (1,2-DCA)	10.0	10.1	10	ND	100	101	49-155	0.683	20
1,1-Dichloroethene	10.1	9.92	10	ND	101	99	1-234	1.41	20
trans-1,2-Dichloroethene	10.4	10.3	10	ND	104	103	54-156	0.658	20
1,2-Dichloropropane	10.1	9.82	10	ND	101	98	1-210	3.08	20
cis-1,3-Dichloropropene	9.37	9.25	10	ND	94	92	1-227	1.29	20
trans-1,3-Dichloropropene	9.89	9.87	10	ND	99	99	17-183	0	20
Ethylbenzene	10.6	10.4	10	ND	106	104	37-162	2.51	20
Methyl-t-butyl ether (MTBE)	10.4	10.5	10	ND	104	105	70-130	1.78	20
Methylene chloride	8.84	8.78	10	ND	81	80	1-221	0.645	20
1,1,2,2-Tetrachloroethane	8.58	8.95	10	ND	86	89	46-157	4.15	20
Tetrachloroethene	9.74	9.58	10	ND	97	96	64-148	1.68	20
Toluene	9.82	9.67	10	ND	98	96	47-150	1.59	20
1,1,1-Trichloroethane	10.3	10.2	10	ND	103	102	52-162	1.02	20
1,1,2-Trichloroethane	9.92	9.99	10	ND	99	100	52-150	0.719	20
Trichloroethene	10.0	9.79	10	ND	100	98	71-157	2.17	20
Trichlorofluoromethane	10.1	10.0	10	ND	101	100	17-181	1.02	20
Vinyl chloride	11.2	10.8	10	ND	113	108	1-251	3.64	20
Xylenes, Total	31.6	31.1	30	ND	105	104	59-128	1.35	20
Surrogate Recovery									
Dibromofluoromethane	27.2	27.2	25		109	109	83-139	0	20
Toluene-d8	29.7	29.7	25		119	119	87-125	0	20
4-BFB	2.49	2.53	2.5		100	101	74-133	1.68	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	1.0	-	-	-
Acenaphthylene	ND	1.0	-	-	-
Anthracene	ND	1.0	-	-	-
Benzidine	ND	5.0	-	-	-
Benzo (a) anthracene	ND	1.0	-	-	-
Benzo (a) pyrene	ND	1.0	-	-	-
Benzo (b) fluoranthene	ND	1.0	-	-	-
Benzo (g,h,i) perylene	ND	1.0	-	-	-
Benzo (k) fluoranthene	ND	1.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	1.0	-	-	-
Bis (2-chloroisopropyl) Ether	ND	1.0	-	-	-
Bis (2-ethylhexyl) Adipate	ND	1.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	2.0	-	-	-
4-Bromophenyl Phenyl Ether	ND	1.0	-	-	-
Butylbenzyl Phthalate	ND	1.0	-	-	-
4-Chloroaniline	ND	2.0	-	-	-
4-Chloro-3-methylphenol	ND	1.0	-	-	-
2-Chloronaphthalene	ND	1.0	-	-	-
2-Chlorophenol	ND	1.0	-	-	-
4-Chlorophenyl Phenyl Ether	ND	1.0	-	-	-
Chrysene	ND	1.0	-	-	-
Dibenzo (a,h) anthracene	ND	1.0	-	-	-
Dibenzofuran	ND	1.0	-	-	-
Di-n-butyl Phthalate	ND	1.0	-	-	-
1,2-Dichlorobenzene	ND	1.0	-	-	-
1,3-Dichlorobenzene	ND	1.0	-	-	-
1,4-Dichlorobenzene	ND	1.0	-	-	-
3,3-Dichlorobenzidine	ND	2.0	-	-	-
2,4-Dichlorophenol	ND	1.0	-	-	-
Diethyl Phthalate	ND	1.0	-	-	-
2,4-Dimethylphenol	ND	1.0	-	-	-
Dimethyl Phthalate	ND	1.0	-	-	-
4,6-Dinitro-2-methylphenol	ND	5.0	-	-	-
2,4-Dinitrophenol	ND	5.0	-	-	-
2,4-Dinitrotoluene	ND	1.0	-	-	-
2,6-Dinitrotoluene	ND	1.0	-	-	-
Di-n-octyl Phthalate	ND	2.0	-	-	-
1,2-Diphenylhydrazine	ND	1.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Fluoranthene	ND	1.0	-	-	-
Fluorene	ND	1.0	-	-	-
Hexachlorobenzene	ND	1.0	-	-	-
Hexachlorobutadiene	ND	1.0	-	-	-
Hexachlorocyclopentadiene	ND	5.0	-	-	-
Hexachloroethane	ND	1.0	-	-	-
Indeno (1,2,3-cd) pyrene	ND	1.0	-	-	-
Isophorone	ND	1.0	-	-	-
2-Methylnaphthalene	ND	1.0	-	-	-
2-Methylphenol (o-cresol)	ND	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	-	-	-
Naphthalene	ND	1.0	-	-	-
2-Nitroaniline	ND	5.0	-	-	-
3-Nitroaniline	ND	5.0	-	-	-
4-Nitroaniline	ND	5.0	-	-	-
Nitrobenzene	ND	1.0	-	-	-
2-Nitrophenol	ND	5.0	-	-	-
4-Nitrophenol	ND	5.0	-	-	-
N-Nitrosodimethylamine	ND	5.0	-	-	-
N-Nitrosodiphenylamine	ND	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	1.0	-	-	-
Pentachlorophenol	ND	5.0	-	-	-
Phenanthrene	ND	1.0	-	-	-
Phenol	ND	1.0	-	-	-
Pyrene	ND	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	1.0	-	-	-
2,4,5-Trichlorophenol	ND	1.0	-	-	-
2,4,6-Trichlorophenol	ND	1.0	-	-	-
Surrogate Recovery					
2-Fluorophenol	21.0		20	105	29-140
Phenol-d5	22.4		20	112	38-148
Nitrobenzene-d5	23.7		20	119	31-152
2-Fluorobiphenyl	18.6		20	93	40-140
2,4,6-Tribromophenol	22.0		20	110	39-150
Terphenyl-d14	21.6		20	108	38-147

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	9.33	8.73	10	93	87	47-145	6.69	20
Acenaphthylene	10.1	9.31	10	101	93	33-145	8.30	20
Anthracene	9.10	8.42	10	91	84	27-133	7.70	20
Benzidine	35.7	33.0	50	71	66	43-106	7.75	20
Benzo (a) anthracene	9.41	8.88	10	94	89	33-143	5.84	20
Benzo (a) pyrene	9.76	8.90	10	98	89	17-163	9.17	20
Benzo (b) fluoranthene	10.0	8.80	10	100	88	24-159	12.8	20
Benzo (g,h,i) perylene	9.17	8.78	10	92	88	1-219	4.39	20
Benzo (k) fluoranthene	9.31	8.66	10	93	87	11-162	7.23	20
Bis (2-chloroethoxy) Methane	9.24	8.69	10	92	87	33-184	6.13	20
Bis (2-chloroethyl) Ether	8.67	8.28	10	87	83	12-158	4.67	20
Bis (2-chloroisopropyl) Ether	9.07	8.63	10	91	86	36-166	4.97	20
Bis (2-ethylhexyl) Adipate	9.53	8.42	10	95	84	55-122	12.3	20
Bis (2-ethylhexyl) Phthalate	9.97	8.69	10	100	87	8-158	13.7	20
4-Bromophenyl Phenyl Ether	8.69	8.06	10	87	81	53-127	7.47	20
Butylbenzyl Phthalate	10.2	9.11	10	102	91	1-152	11.7	20
4-Chloroaniline	9.57	9.06	10	96	91	63-120	5.48	20
4-Chloro-3-methylphenol	10.9	9.94	10	109	99	22-147	8.89	20
2-Chloronaphthalene	9.65	9.33	10	96	93	60-118	3.35	20
2-Chlorophenol	8.89	8.58	10	89	86	23-134	3.62	20
4-Chlorophenyl Phenyl Ether	9.61	8.92	10	96	89	25-158	7.42	20
Chrysene	9.56	9.02	10	96	90	17-168	5.82	20
Dibenzo (a,h) anthracene	8.42	7.99	10	84	80	1-227	5.25	20
Dibenzofuran	9.80	9.17	10	98	92	64-122	6.72	20
Di-n-butyl Phthalate	9.06	8.11	10	91	81	1-118	11.1	20
1,2-Dichlorobenzene	8.54	8.30	10	85	83	32-129	2.79	20
1,3-Dichlorobenzene	8.50	8.15	10	85	81	1-172	4.18	20
1,4-Dichlorobenzene	7.99	7.90	10	80	79	20-124	1.22	20
3,3-Dichlorobenzidine	10.4	9.82	10	104	98	1-262	6.23	20
2,4-Dichlorophenol	10.1	9.58	10	101	96	39-135	5.42	20
Diethyl Phthalate	10.0	9.24	10	100	92	1-114	8.24	20
2,4-Dimethylphenol	10.6	9.87	10	106	99	32-119	7.01	20
Dimethyl Phthalate	9.51	8.88	10	95	89	1-112	6.86	20
4,6-Dinitro-2-methylphenol	58.1	54.2	50	116	109	59-123	6.92	20
2,4-Dinitrophenol	57.2	54.7	50	114	109	1-191	4.42	20
2,4-Dinitrotoluene	11.7	10.8	10	117	108	39-139	7.43	20
2,6-Dinitrotoluene	11.2	10.3	10	112	103	50-158	8.06	20
Di-n-octyl Phthalate	10.1	8.32	10	101	83	4-146	19.7	20
1,2-Diphenylhydrazine	9.62	8.73	10	96	87	66-128	9.68	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/27/18	**BatchID:**	153838
Date Analyzed:	2/28/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153838

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Fluoranthene	10.1	9.18	10	101	92	26-137	9.54	20
Fluorene	10.1	9.36	10	101	94	59-121	7.75	20
Hexachlorobenzene	8.19	7.56	10	82	76	1-152	7.98	20
Hexachlorobutadiene	8.59	8.28	10	86	83	24-116	3.58	20
Hexachlorocyclopentadiene	41.0	38.5	50	82	77	36-109	6.19	20
Hexachloroethane	8.85	8.63	10	89	86	40-113	2.54	20
Indeno (1,2,3-cd) pyrene	8.35	7.93	10	83	79	1-171	5.21	20
Isophorone	10.1	9.14	10	101	91	21-196	9.99	20
2-Methylnaphthalene	9.40	8.84	10	94	88	58-122	6.14	20
2-Methylphenol (o-cresol)	9.77	9.41	10	98	94	55-121	3.85	20
3 & 4-Methylphenol (m,p-Cresol)	10.2	9.62	10	102	96	58-121	6.23	20
Naphthalene	8.26	7.98	10	83	80	21-133	3.48	20
2-Nitroaniline	56.7	51.4	50	113	103	65-124	9.65	20
3-Nitroaniline	52.5	48.1	50	105	96	67-125	8.68	20
4-Nitroaniline	55.6	50.0	50	111	100	65-124	10.5	20
Nitrobenzene	10.6	10.1	10	106	101	35-180	4.60	20
2-Nitrophenol	46.7	44.8	50	93	90	29-182	4.21	20
4-Nitrophenol	56.8	51.8	50	114	104	1-132	9.10	20
N-Nitrosodimethylamine	46.2	43.3	50	92	87	45-111	6.43	20
N-Nitrosodiphenylamine	9.18	8.56	10	92	86	67-132	7.07	20
N-Nitrosodi-n-propylamine	10.4	9.57	10	104	96	1-230	7.99	20
Pentachlorophenol	27.0	24.6	20	135	123	14-176	9.08	20
Phenanthrene	8.04	7.55	10	80	75	54-120	6.30	20
Phenol	9.13	8.58	10	91	86	5-112	6.13	20
Pyrene	9.17	8.56	10	92	86	52-115	6.85	20
1,2,4-Trichlorobenzene	8.52	8.27	10	85	83	44-142	2.91	20
2,4,5-Trichlorophenol	10.3	9.54	10	103	95	62-124	8.03	20
2,4,6-Trichlorophenol	10.1	9.36	10	101	94	37-144	7.82	20
Surrogate Recovery								
2-Fluorophenol	20.2	20.8	20	101	104	29-140	3.32	20
Phenol-d5	22.5	22.5	20	113	113	38-148	0	20
Nitrobenzene-d5	25.1	25.3	20	126	126	31-152	0	20
2-Fluorobiphenyl	21.0	20.6	20	105	103	40-140	1.84	20
2,4,6-Tribromophenol	27.9	26.8	20	139	134	39-150	3.98	20
Terphenyl-d14	23.6	22.4	20	118	112	38-147	5.40	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153927
Date Analyzed:	3/1/18	**Extraction Method:**	E350.1
Instrument:	WC_SKALAR	**Analytical Method:**	E350.1
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153927 1802C77-001BMS/MSD

QC Summary Report for E350.1

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ammonia, total as N	ND	3.72	0.10	4	-	93	88-113

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Ammonia, total as N	4.23	4.37	4	0.24	100	103	88-113	3.21	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/28/18	**BatchID:**	153897
Date Analyzed:	3/5/18	**Extraction Method:**	SM5210B
Instrument:	WetChem	**Analytical Method:**	SM5210 B-2001
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153897

QC Summary Report for BOD

Analyte	MB Result	RL			
BOD	ND	4.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	168	176	198	85	89	80-120	4.35	16

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/2/18	**BatchID:**	154009
Date Analyzed:	3/2/18	**Extraction Method:**	SM4500-CN^- E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN^- CE
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-154009 1802D59-001BMS/MSD

QC Summary Report for SM4500-CN^- CE

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Total Cyanide	ND	39.7	1.0	40	-	99	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	57.4	57.9	40	17	100	101	80-120	0.922	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/5/18	**BatchID:**	154076
Date Analyzed:	3/5/18	**Extraction Method:**	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM5220 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-154076 1803009-001HMS/MSD

QC Summary Report for COD

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
COD	ND	103	10	100	-	103	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	NR	NR		8700	NR	NR	-	NR	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/27/18	**BatchID:**	153840
Date Analyzed:	2/28/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153840 1802C93-001CMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Mercury	ND	1.95	0.20	2	-	97	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1.82	1.76	2	ND	87	83	80-120	3.40	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	50.3	0.50	50	-	101	85-115
Cadmium	ND	50.5	0.25	50	-	101	85-115
Chromium	ND	50.0	0.50	50	-	100	85-115
Copper	ND	50.4	2.0	50	-	101	85-115
Iron	ND	5100	20	5000	-	102	85-115
Lead	ND	51.2	0.50	50	-	102	85-115
Molybdenum	ND	48.5	0.50	50	-	97	85-115
Nickel	ND	50.9	0.50	50	-	102	85-115
Selenium	ND	50.0	0.50	50	-	100	85-115
Silver	ND	50.4	0.19	50	-	101	85-115
Zinc	ND	537	15	500	-	107	85-115
Surrogate Recovery							
Terbium	768	771		750	102	103	70-130

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	2/28/18	**BatchID:**	153903
Date Analyzed:	3/1/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-153903 1802D57-003FMS/MSD

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	51.1	51.3	50	0.5270	101	102	75-125	0.488	20
Cadmium	49.9	51.4	50	ND	100	102	75-125	2.92	20
Chromium	49.9	49.9	50	0.8789	98	98	75-125	0	20
Copper	75.4	76.1	50	28.08	95	96	75-125	0.898	20
Iron	5530	5510	5000	603.7	98	98	75-125	0	20
Lead	49.8	51.3	50	ND	99	102	75-125	2.99	20
Molybdenum	180	181	50	139.9	81	83	75-125	0.442	20
Nickel	51.4	52.3	50	2.890	97	99	75-125	1.73	20
Selenium	19.9	20.1	50	ND	39,F10	40,F10	75-125	1.10	20
Silver	48.4	49.7	50	ND	97	99	75-125	2.63	20
Zinc	605	623	500	120.2	97	100	75-125	2.93	20
Surrogate Recovery									
Terbium	780	799	750		104	107	70-130	2.36	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	ND<2.5	0.5270	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	0.911	0.8789	3.65	-
Copper	27.9	28.08	0.641	-
Iron	576	603.7	4.59	20
Lead	0.460	ND	-	-
Molybdenum	126	139.9	9.94	20
Nickel	2.79	2.890	3.46	-
Selenium	ND<2.5	ND	-	-
Silver	ND<0.95	ND	-	-
Zinc	119	120.2	0.998	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/6/18	**BatchID:**	154172
Date Analyzed:	3/6/18	**Extraction Method:**	E420.4
Instrument:	WC_SKALAR	**Analytical Method:**	E420.4
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (February 2018)	**Sample ID:**	MB/LCS-154172 1803217-002AMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Phenolics	ND	39.5	2.0	40	-	99	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	43.1	42.9	40	ND	108	107	70-130	0.558	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153935
Date Analyzed:	3/1/18	**Extraction Method:**	SM2540 D-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)		

QC Summary Report for Total Suspended Solids

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1802D48-001B	208	20	208	20	0	<10

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D57
Date Prepared:	3/1/18	**BatchID:**	153964
Date Analyzed:	3/2/18	**Extraction Method:**	SM2540 C-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 C-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (February 2018)		

QC Summary Report for Total Dissolved Solids

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1802D16-001C	392	1	372	1	5.24	<10

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D57 **ClientCode: PGEA**

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☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: a1he@pge.com; j5ld@pge.com; tlwy@pge.
PO:
Project: Semi-Annually Sampling (February 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: **5 days; 7 days;**

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1802D57-001	E-001 2/27/18	Water	2/27/2018 10:00	☐	B	A										
1802D57-002	E-001 Grab	Water	2/28/2018 10:20	☐	B	A	G	D	E	F	C		H			
1802D57-003	E-001 Composite	Water	2/28/2018 10:05	☐								B		C	A	F

Test Legend:

1	1664A_SG_W	2	1664A_W	3	608_W [J]	4	624_W
5	624ACR+2CEVE_W	6	625_W	7	AMMONIA_W	8	BOD_W
9	CN_W	10	COD_W	11	HG_W	12	METALSMS_TTLC_W

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D57 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: a1he@pge.com; j5ld@pge.com; tlwy@pge.
PO:
Project: Semi-Annually Sampling (February 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 5 days; 7 days;

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
1802D57-001	E-001 2/27/18	Water	2/27/2018 10:00	☐												
1802D57-002	E-001 Grab	Water	2/28/2018 10:20	☐	C											
1802D57-003	E-001 Composite	Water	2/28/2018 10:05	☐		D	E									

Test Legend:

13	PHENOLICS_W	14	TDS_W	15	TSS_W	16	
17		18		19		20	
21		22		23		24	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (February 2018) **Work Order:** 1802D57
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 2/28/2018

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D57-001A	E-001 2/27/18	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	2/27/2018 10:00	5 days	Present	☐	
1802D57-001B	E-001 2/27/18	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	2/27/2018 10:00	5 days	Present	☐	
1802D57-002A	E-001 Grab	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002B	E-001 Grab	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002C	E-001 Grab	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	2/28/2018 10:20	5 days	Present	☐	
			E350.1 (Ammonia)			☐		5 days	Present	☐	
1802D57-002D	E-001 Grab	Water	E624 (VOCs)	2	VOA w/ HCl	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002E	E-001 Grab	Water	E624 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002F	E-001 Grab	Water	E625 (SVOCs)	1	1LA Narrow Mouth, Unpres	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002G	E-001 Grab	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	1	1LA Narrow Mouth, Unpres	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-002H	E-001 Grab	Water	Kelada-01 (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	2/28/2018 10:20	5 days	Present	☐	
1802D57-003A	E-001 Composite	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	2/28/2018 10:05	5 days	Present	☐	
1802D57-003B	E-001 Composite	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	2/28/2018 10:05	7 days	Present	☐	
1802D57-003C	E-001 Composite	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	2/28/2018 10:05	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (February 2018) **Work Order:** 1802D57
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 2/28/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D57-003D	E-001 Composite	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	2/28/2018 10:05	5 days	Present	☐	
1802D57-003E	E-001 Composite	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	2/28/2018 10:05	5 days	Present	☐	
1802D57-003F	E-001 Composite	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	2/28/2018 10:05	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1802D57 PS 1 of 2

McCAMPBELL ANALYTICAL, INC.

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Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (925) 861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (February 2018)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other
E-001		G	2/27/18	10:00	2	1L Amb	X			X			X		
E-001		G	2/28/18	10:20	2	1L Amb	X			X			X		
E-001		G	2/28/18	10:20	1	500ml Amb	X			X	X				
E-001		G	2/28/18	10:20	2	43-ml VOA	X			X			X		
E-001		G	2/28/18	10:20	2	43-ml VOA	X		X	X					
E-001		G	2/28/18	10:20	1	1L Amb	X		X	X					
E-001		G	2/28/18	10:20	1	1L Amb	X		X	X					
E-001		C	2/28/18	10:05	1	250-ml Poly	X			X				X	
E-001		G	2/28/18	10:20	1	250-ml Poly	X			X		X			

Cyanide (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	Metals (Arsenic and selenium) by 200.8 Selenium by reaction mode	Oil/Grease (USEPA 1664A) with and with out silica gel clean up	Total Phenolics (USEPA 420.4)	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	Ammonia as N (SM 4500-NH3-G)	Mercury (245.2)						
		X												
		X												
			X				X							
				X										
				X										
					X									
						X								
								X						
X														

Relinquished By:	Date:	Time:	Received By:
	2/28/18	14:55	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2 | 6
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☑ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (925) 861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (February 2018)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other
E-001		C	2/28/18	10:05	1	1L poly	X		X	X					
E-001		C	2/28/18	10:05	2	43-ml VOA	X			X	X				
E-001		C	2/28/18	10:05	1	500-ml poly	X		X	X					
E-001		C	2/28/18	10:05	1	1L poly	X		X	X					
E-001		C	2/28/18	10:05	1	250-ml poly	X			X				X	

Analysis Request

Cyanide (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	Metals (Arsenic and selenium) by 200.8 Selenium by reaction mode	Oil/Grease (USEPA 1664A)	Phenol (USEPA 420.4)	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	Ammonia (SM 4500-NH3-G)	Mercury (245.2)	Asbestos (USEPA 100.1 TEM)	BOD (SM 5210B)	COD (SM 5220D)	TDS (SM 2540C)	TSS (SM 2540D)	Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, Molybdenum, iron, and zinc)	Remarks
										X					
											X				
												X			
													X		
	X													X	

Relinquished By:	Date:	Time:	Received By:
	2/28/18	14:55	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2\6

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**2/28/2018 14:55**
Project:	**Semi-Annually Sampling (February 2018)**	Date Logged:	**2/28/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1802D57** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				
Sample/Temp Blank temperature		Temp: 3.6°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA ☐
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA ☐
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1802D55

Report Created for: Muskan Environmental Services

1674 Bay Court
Yuba City, CA 95993

Project Contact: Sanjiv Gil
Project P.O.:
Project: pH Sampling (February 2018)

Project Received: 02/28/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: Muskan Environmental Services
Project: pH Sampling (February 2018)
WorkOrder: 1802D55

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	Muskan Environmental Services	**WorkOrder:**	1802D55
Date Received:	2/28/18 14:55	**Extraction Method:**	SM4500H+B-2000
Date Prepared:	2/27/18	**Analytical Method:**	SM4500H+B
Project:	pH Sampling (February 2018)	**Unit:**	pH units

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1802D55-001A	Water	02/27/2018 10:10	WetChem	153882

Analytes	Result	Accuracy	DF	Date Analyzed
pH	**7.35**	±0.05	1	02/27/2018 10:11

Analyst(s): PHU

McCampbell Analytical, Inc.
1534 Willow Pass Rd
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D55 **ClientCode: MES**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☑ Dry-Weight

Report to:
Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993
(408) 666-4494 FAX: (530) 660-1814

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: pH Sampling (February 2018)

Bill to:
Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993

Requested TAT: **5 days;**

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1802D55-001	E-001	Water	2/27/2018 10:10	☐	A											

Test Legend:

1	PH_W_SANJIV	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: MUSKAN ENVIRONMENTAL SERVICES **Project:** pH Sampling (February 2018) **Work Order:** 1802D55
Client Contact: Sanjiv Gil **QC Level:** LEVEL 2
Contact's Email: sanjivgill@comcast.net **Comments:** **Date Logged:** 2/28/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D55-001A	E-001	Water	SM4500H+B (Field pH)	1	125mL HDPE, unprsv.	☐	2/27/2018 10:10	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1802D55

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Sanjiv Gill Bill To: Muskan Environmental

Company: PG&E Gateway Generating Station

E-Mail: sanjivgill@comcast.net

Tel: (408) 666-4494 (Cell) Fax: ( )

Project Name: pH Sampling (February 2018)

Project Location: PG&E GGS Antioch - Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Zinc Acetate	Analysis Request: pH	Remarks
E-001		G	2/27/18	10:10	NA	NA	X		X							X	Grab Time: 10:10 Analysis Time: 10:11 Temperature: 19.7°C pH: 7.35

Relinquished By:	Date:	Time:	Received By:
	2/28/18	1455	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____ COMMENTS:
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION		pH<2		

Logbook for Field pH Samples

1802D53

Date/Time	Sample ID	Matrix	1st Reading		2nd Reading		Ave	Standard	Comments	Analyst
			pH	Temp.°c	pH	Temp.°c	pH	(lot # / exp. Date)		
2/27/18 /09:15	Cal. pH # 7.00	L	7.01	20.1	7.00	20.1	7.00	bu/k		
2/27/18 /09:15	Cal pH # 4.00	L	4.00	20.1	4.00	20.1	4.00	bu/k		
2/27/18 /09:15	Cal. pH # 10.00	L	10.00	20.1	10.00	20.1	10.00	bu/k		
					Meter Myron L Company					
					Ultrameter II					
					serial #6222066					
								PG&E		
								Gateway		
								pH reading on COC 2/27/18		

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Sample Receipt Checklist

Client Name:	**Muskan Environmental Services**	Date and Time Received	**2/28/2018 14:55**
Project:	**pH Sampling (February 2018)**	Date Logged:	**2/28/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1802D55** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☐	No	☑	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				
Sample/Temp Blank temperature		Temp: 3.6°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments: Method SM4500H+B (Field pH) was received past its 0.25-day holding time.

Attachment 8d
Laboratory Results
Annual Monitoring of Combined Waste Stream
(E-001)

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1802D56

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Annual Sampling (February 2018)

Project Received: 02/28/2018

Analytical Report reviewed & approved for release on 03/07/2018 by:

Yen Cao
Project Manager

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Annual Sampling (February 2018)
WorkOrder: 1802D56

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Annual Sampling (February 2018)
WorkOrder: 1802D56

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits.
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D56
Date Received:	2/28/18 14:55	**Extraction Method:**	E300.1
Date Prepared:	2/28/18	**Analytical Method:**	E300.1
Project:	Annual Sampling (February 2018)	**Unit:**	mg/L

Inorganic Anions by IC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1802D56-001B	Water	02/28/2018 10:20	IC3 03011802.D	153890

Analytes	Result	RL	DF	Date Analyzed
Sulfate	**38**	1.0	10	02/28/2018 20:53

Surrogates	REC (%)	Qualifiers	Limits	
Formate	0	S	85-115	02/28/2018 20:53

Analyst(s): AO Analytical Comments: c1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D56
Date Received:	2/28/18 14:55	**Extraction Method:**	SM4500-S^{-2} D-2000
Date Prepared:	3/5/18	**Analytical Method:**	SM4500 S^{-2} D
Project:	Annual Sampling (February 2018)	**Unit:**	mg/L

Total Sulfide - S

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1802D56-001A	Water	02/28/2018 10:20	SPECTROPHOTOMETER	154078

Analytes	Result	RL	DF	Date Analyzed
Total Sulfide	**4.8**	0.50	10	03/05/2018 13:30

Analyst(s): RB

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D56
Date Prepared:	2/28/18	**BatchID:**	153890
Date Analyzed:	2/28/18	**Extraction Method:**	E300.1
Instrument:	IC3	**Analytical Method:**	E300.1
Matrix:	Water	**Unit:**	mg/L
Project:	Annual Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-153890

QC Summary Report for E300.1

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Sulfate	ND	0.10	-	-	-
Surrogate Recovery					
Formate	0.104		0.10	104	85-115

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Sulfate	0.923	0.925	1	92	92	85-115	0	15
Surrogate Recovery								
Formate	0.0956	0.0950	0.10	96	95	85-115	0.632	10

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1802D56
Date Prepared:	3/5/18	**BatchID:**	154078
Date Analyzed:	3/5/18	**Extraction Method:**	SM4500-S^{-2} D-2000
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM4500 S^{-2} D
Matrix:	Water	**Unit:**	mg/L
Project:	Annual Sampling (February 2018)	**Sample ID:**	MB/LCS/LCSD-154078

QC Summary Report For SM4500 S-2D

Analyte	MB Result	RL			
Total Sulfide	ND	0.050	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Sulfide	0.453	0.453	0.50	91	91	80-120	0	20

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1802D56 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: a1he@pge.com; j5ld@pge.com; tlwy@pge.
PO:
Project: Annual Sampling (February 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 5 days;

Date Received: **02/28/2018**
Date Logged: **02/28/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1802D56-001	E-001	Water	2/28/2018 10:20	☐	B	A										

Test Legend:

1	300_1_W	2	SULFIDE_W	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Annual Sampling (February 2018) **Work Order:** 1802D56
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 2/28/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1802D56-001A	E-001	Water	SM4500S2D (Total Sulfide)	1	250mL HDPE w/ NaOH+ZnAc	☐	2/28/2018 10:20	5 days	Present	☐	
1802D56-001B	E-001	Water	E300.1 (Inorganic Anions) <Sulfate>	1	250mL HDPE, unprsv.	☐	2/28/2018 10:20	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1802D56

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252 -9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510)-861-1597(Cell) **Fax:** ( )

Project Name: Annual Sampling (*Feburary 2018)*

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Zinc Acetate	Analysis Request: Sulfide (EPA 376.2)	Analysis Request: Sulfate (EPA 300.1)	Remarks
E-001		G	2/28/18	10:20	1	250-ml poly	X			X		X			X	X		
E-001		G	2/28/18	10:20	1	250-ml poly	X			X							X	

Relinquished By:	Date:	Time:	Received By:
	2/28/18	14:55	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.6

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**2/28/2018 14:55**
Project:	**Annual Sampling (February 2018)**	Date Logged:	**2/28/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1802D56** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				
Sample/Temp Blank temperature		Temp: 3.6°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

From: Espiritu, Angel
To: Auer, Michael
Cc: Cain,Darrell
Subject: FW: Notification: Elevated cyanide concentration on Semi-annual Monitoring of the Categorical Waste Stream
Date: Monday, April 09, 2018 10:49:02 AM
Attachments: Resample Cyanide Mar 2018_1803660.pdf
Ressample Cyanide 2_1803947.pdf
Resample Cyanide 3_1803D92.pdf

Hi Mike,

This is a follow up to my last week's phone conversation with you on the subject. We conducted several resampling of wastewater for cyanide to identify the possible effects of sample preservation/pre-treatment on analytical result for the indicated parameter as Daryl had suggested. We also collected resamples from several process points within the facility, to include: RO feed/reject, Oil Water Separator discharge/holding tank, underground (Tiger Pit)/aboveground holding tanks, the WSAC basins, and the source water. This is to determine the concentration of the indicated parameters at various locations with the process. Attached are copies of analytical reports. Below is a summary of results;

	Cyanide, ppm
Resampling of 3/13/2018	
1. I-001 (w/ Preservative, w/ Pre-treatment)	0.0200
2. I-001 (No Preservative, No Pre-treatment)	0.0180
3. I-001 (No Preservative, w/ Pre-treatment)	0.0180
4. Source Water (w/ Pres, w/Pre-treatment)	0.0029

Resampling of 3/16/2018 (All samples were preserved and pre-treated)	
5. Source Water	0.0015
6. I-001	0.0210
7. RO Feed	ND (<0.0010)
8. RO Reject	ND (<0.0010)
9. OWS Discharge	ND (<0.0010)
10. OWS Aboveground (Hammond) Tank	ND (<0.0010)

Resampling of 3/23/2018 (All samples were preserved and pre-treated)	
11. WSAC East Basin	0.0011
12. WSAC Middle Basin	0.0010
13. WSAC West Basin	0.0014
14. Tiger Pit Effluent WSAC West Basin	0.0110
15. Source Water	0.0016

There was a reduction of cyanide concentration in the un-preserve/un-treated samples, but the results are still above 10 ppb. We also identified above 10 ppb in the samples collected from the Tiger Pit and aboveground holding tanks. As a result of this, we are cleaning up the Tiger Pit and aboveground holding tanks under "process control" scenario this week. We will contain the clean-up wastewater/sludge for proper off-site disposal. After the cleanup of both tanks, and when the

facility returns back to normal operation (from annual Spring operation/maintenance outage), we will again resample the wastewater. In addition to this clean-up activity, We also requested a certification from our water chemistry vendor on the absence of 126 priority pollutants on all of the products that are supplied to us.

We will include this email correspondence in our quarterly SMR. Please let me know if you have questions. Thank you.

Angel B. Espiritu
Pacific Gas & Electric – Gateway Generating Station
Sr. Environmental Consultant-Environmental Compliance Manager
3225 Wilbur Avenue, Antioch, CA 94509
925-522-7838, 510-861-1597 (Cell)
ABE4@pge.com

From: Cain, Darrell [mailto:darrellc@deltadiablo.org]
Sent: Wednesday, March 07, 2018 4:23 PM
To: Espiritu, Angel; Auer, Michael
Cc: Brothers, Robert
Subject: RE: Notification: Elevated cyanide concentration on Semi-annual Monitoring of the Categorical Waste Stream

*****CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****
Hi Angel,

Hope all is well on your end? We have observed false CN results over the years depending on the analytical method. We learned that a false positive maybe a result of the sample preservative cited in the method? A suggestion is that you collect two samples one sample without any preservation and another sample preserved per the method. You may want to coordinate the sampling event with your contract lab so have both samples analyzed ASAP.

Another option is as you cited in your email collect a source water sample and a sample from the compliance location and have them analyzed. Particularly, if you are using the method required preservation step, the sooner you have the samples analyzed the better. As it reduces the potential impact of the preservative on the final results.

Hope this help? If you have any questions give me a call.

Regards,

Darrell Cain, MPA
Laboratory Manager | Delta Diablo
2500 Pittsburg-Antioch Hwy, Antioch, CA 94509
p 925.756.1915 **f** 925.756.1961 **m** 925.260.4278
www.deltadiablo.org | darrellc@deltadiablo.org
TRANSFORMING WASTEWATER TO RESOURCES

From: Espiritu, Angel [mailto:ABE4@pge.com]
Sent: Wednesday, March 7, 2018 3:51 PM
To: Auer, Michael <mikea@deltadiablo.org>
Cc: Cain, Darrell <darrellc@deltadiablo.org>
Subject: Notification: Elevated cyanide concentration on Semi-annual Monitoring of the Categorical Waste Stream

Hi Mike,

We submit this notification to the District regarding limit exceedance on semi-annual monitoring of the categorical waste stream, specifically total cyanide (parameter). Attached are laboratory analytical results and summary table of results. We received this report from McCampbell Lab today at 11:26 am. You will note that the total cyanide concentration (of 0.018 mg/L) exceeded the limit (of ND<0.01 mg/L) on semi-annual monitoring for 126 Priority Pollutants. This notification is submitted to comply with Section F.8 of the Industrial Waste Water Discharge Permit.

We believe that this is similar to the case we had in October 2017 when the total cyanide concentration was also elevated at 0.022 mg/L. We suspect that this is likely (again) a false positive result. GGS is willing to do another study/resampling, including analysis of the incoming City water, if you would require. Please advise.

Please let us know if you have questions. Thank you.

Angel B. Espiritu
Pacific Gas & Electric – Gateway Generating Station
Sr. Environmental Consultant-Environmental Compliance Manager
3225 Wilbur Avenue, Antioch, CA 94509
925-522-7838, 510-861-1597 (Cell)
ABE4@pge.com

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Analytical Report

WorkOrder: 1803660

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample Cyanide March 2018

Project Received: 03/13/2018

Analytical Report reviewed & approved for release on 03/14/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample Cyanide March 2018
WorkOrder: 1803660

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803660
Date Received:	3/13/18 10:35	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/13/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample Cyanide March 2018	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001 3/13/18 09:55	1803660-001A	Water	03/13/2018 09:55	WC_SKALAR 031318A1_41	154607

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**20**	1.0	1	03/13/2018 11:50

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001 3/13/18 09:57	1803660-001B	Water	03/13/2018 09:57	WC_SKALAR 031318A1_42	154607

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**18**	1.0	1	03/13/2018 11:53

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001 3/13/18 10:00	1803660-001C	Water	03/13/2018 10:00	WC_SKALAR 031318A1_43	154607

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**18**	1.0	1	03/13/2018 11:57

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Source Water	1803660-002A	Water	03/13/2018 09:50	WC_SKALAR 031318A1_44	154607

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**2.9**	1.0	1	03/13/2018 12:01

Analyst(s): BM

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803660
Date Prepared:	3/13/18	**BatchID:**	154607
Date Analyzed:	3/13/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample Cyanide March 2018	**Sample ID:**	MB/LCS-154607 1803615-001AMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Total Cyanide	ND	41.8	1.0	40	-	105	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	44.8	45.2	40	3.0	105	106	80-120	0.750	20

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803660 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: abe4@pge.com; A1HE@pge.com; J5Ld@
PO:
Project: Resample Cyanide March 2018

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 1 day;

Date Received: **03/13/2018**
Date Logged: **03/13/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803660-001	I-001 3/13/18 09:55	Water	3/13/2018 09:55	☐	A											
1803660-001	I-001 3/13/18 09:57	Water	3/13/2018 09:57	☐	B											
1803660-001	I-001 3/13/18 10:00	Water	3/13/2018 10:00	☐	C											
1803660-002	Source Water	Water	3/13/2018 09:50	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample Cyanide March 2018 **Work Order:** 1803660
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/13/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803660-001A	I-001 3/13/18 09:55	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/13/2018 9:55	1 day	None	☐	
1803660-001B	I-001 3/13/18 09:57	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH	☐	3/13/2018 9:57	1 day	None	☐	
1803660-001C	I-001 3/13/18 10:00	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/13/2018 10:00	1 day	None	☐	
1803660-002A	Source Water	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/13/2018 9:50	1 day	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1803660

McCAMPBELL ANALYTICAL, INC.

RUSH!

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) **Fax:** ( )

Project Name: Resample Cyanide March 2018

Project Location:

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Cyanide (TOTAL) by SM4500 CN-ABCE	Cyanide (TOTAL) by SM4500 CN-ABCE (pretreated with sodium thiosulfate)	Remarks
I-001		G	3/13/18	09:55	1	250 AMB	X			X		X				X							
I-001		G	3/13/18	09:57	1	250 AMB	X			X											X		
I-001		G	3/13/18	10:00	1	250 AMB	X			X												X	
Source Water		G	3/13/18	09:50	1	250 AMB	X			X		X				X							

Relinquished By:	Date:	Time:	Received By:
	3/13/18	10:35	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 6.9
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/13/2018 10:35**
Project:	**Resample Cyanide March 2018**	Date Logged:	**3/13/2018**
		Received by:	Agustina Venegas
WorkOrder №:	**1803660** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 6.8°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

McCampbell Analytical, Inc.
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Analytical Report

WorkOrder: 1803947

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample (2) Cyanide March 2018

Project Received: 03/16/2018

Analytical Report reviewed & approved for release on 03/20/2018 by:

Jennifer Lagerbom
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample (2) Cyanide March 2018
WorkOrder: 1803947

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803947
Date Received:	3/16/18 10:10	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/16/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample (2) Cyanide March 2018	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Source Water	1803947-001A	Water	03/16/2018 09:35	WC_SKALAR 031618A1_75	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**1.5**	1.0	1	03/16/2018 14:43

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1803947-002A	Water	03/16/2018 09:46	WC_SKALAR 031618A1_82	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**21**	1.0	1	03/16/2018 15:09

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RO Feed	1803947-003A	Water	03/16/2018 09:55	WC_SKALAR 031618A1_83	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	03/16/2018 15:13

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
RO Reject	1803947-004A	Water	03/16/2018 10:00	WC_SKALAR 031618A1_84	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	03/16/2018 15:16

Analyst(s): BM

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803947
Date Received:	3/16/18 10:10	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/16/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample (2) Cyanide March 2018	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Hammond Tank	1803947-005A	Water	03/16/2018 10:13	WC_SKALAR 031618A1_85	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	03/16/2018 15:20

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
OWS Discharge	1803947-006A	Water	03/16/2018 10:23	WC_SKALAR 031618A1_86	154833

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	03/16/2018 15:24

Analyst(s): BM

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803947
Date Prepared:	3/16/18	**BatchID:**	154833
Date Analyzed:	3/16/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample (2) Cyanide March 2018	**Sample ID:**	MB/LCS-154833 1803941-001AMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Total Cyanide	ND	41.0	1.0	40	-	102	80-120

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	41.1	42.9	40	1.4	99	104	80-120	4.21	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803947 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party:
PO:
Project: Resample (2) Cyanide March 2018

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 2 days;

Date Received: **03/16/2018**
Date Logged: **03/16/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803947-001	Source Water	Water	3/16/2018 09:35	☐	A											
1803947-002	I-001	Water	3/16/2018 09:46	☐	A											
1803947-003	RO Feed	Water	3/16/2018 09:55	☐	A											
1803947-004	RO Reject	Water	3/16/2018 10:00	☐	A											
1803947-005	Hammond Tank	Water	3/16/2018 10:13	☐	A											
1803947-006	OWS Discharge	Water	3/16/2018 10:23	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample (2) Cyanide March 2018 **Work Order:** 1803947
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/16/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803947-001A	Source Water	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 9:35	2 days	Trace	☐	
1803947-002A	I-001	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 9:46	2 days	Trace	☐	
1803947-003A	RO Feed	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 9:55	2 days	Trace	☐	
1803947-004A	RO Reject	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 10:00	2 days	Trace	☐	
1803947-005A	Hammond Tank	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 10:13	2 days	Trace	☐	
1803947-006A	OWS Discharge	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/16/2018 10:23	2 days	Trace	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

RUSH!

1803947

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) **Fax:** ( )

Project Name: Resample (2) Cyanide March 2018

Project Location:

Sampler Signature: Muskan Environmental Sampling

	SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Cyanide (TOTAL) by SM4500 CN-ABCE
(+)	Source Water		G	3/16/18	09:35	1	250 mL Amb Poly	X					X				X					
(+)	I-001		G	3/16/18	09:46	1	250 mL Amb Poly	X					X				X					
(+)	RO Feed		G	3/16/18	09:55	1	250 mL Amb Poly	X					X				X					
(+)	RO Reject		G	3/16/18	10:00	1	250 mL Amb Poly	X					X				X					
(+)	Hammond Tank		G	3/16/18	10:13	1	250 mL Amb Poly	X					X				X					
(+)	OWS Discharge		G	3/16/18	10:23	1	250 mL Amb Poly	X					X				X					

Remarks

	Relinquished By:	Date:	Time:	Received By:
		3/16/18	10:10	
	Relinquished By:	Date:	Time:	Received By:
	Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.7° Wet
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

PRESERVATION VOAS O&G METALS OTHER pH<2

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/16/2018 10:10**
Project:	**Resample (2) Cyanide March 2018**	Date Logged:	**3/16/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1803947** Matrix: Water	Logged by:	Jena Alfaro
Carrier:	Carlos Madrigal (MAI employee)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				
Sample/Temp Blank temperature	Temp: 3.7°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1803D92

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample Cyanide (3) March 2018

Project Received: 03/23/2018

Analytical Report reviewed & approved for release on 03/27/2018 by:

Yen Cao
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample Cyanide (3) March 2018
WorkOrder: 1803D92

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803D92
Date Received:	3/23/18 10:30	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/26/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample Cyanide (3) March 2018	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
East	1803D92-001A	Water	03/23/2018 09:30	WC_SKALAR 032618B1_22	155322

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**1.1**	1.0	1	03/26/2018 13:15

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Middle	1803D92-002A	Water	03/23/2018 09:35	WC_SKALAR 032618B1_23	155322

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**1.0**	1.0	1	03/26/2018 13:19

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
West	1803D92-003A	Water	03/23/2018 09:40	WC_SKALAR 032618B1_24	155322

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**1.4**	1.0	1	03/26/2018 13:22

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit Effluent	1803D92-004A	Water	03/23/2018 09:45	WC_SKALAR 032618B1_25	155322

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**11**	1.0	1	03/26/2018 13:26

Analyst(s): BM

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803D92
Date Received:	3/23/18 10:30	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	3/26/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample Cyanide (3) March 2018	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Source Water	**1803D92-005A**	**Water**	**03/23/2018 10:00**	**WC_SKALAR 032618B1_36**	**155322**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**1.6**	1.0	1	03/26/2018 14:06

Analyst(s): BM

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1803D92
Date Prepared:	3/26/18	**BatchID:**	155322
Date Analyzed:	3/26/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample Cyanide (3) March 2018	**Sample ID:**	MB/LCS-155322 1803D92-004AMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Total Cyanide	ND	41.1	1.0	40	-	103	90-110

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	51.8	52.7	40	11	102	104	80-120	1.77	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1803D92 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party:
PO:
Project: Resample Cyanide (3) March 2018

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: 2 days;

Date Received: **03/23/2018**
Date Logged: **03/23/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1803D92-001	East	Water	3/23/2018 09:30	☐	A											
1803D92-002	Middle	Water	3/23/2018 09:35	☐	A											
1803D92-003	West	Water	3/23/2018 09:40	☐	A											
1803D92-004	Tiger Pit Effluent	Water	3/23/2018 09:45	☐	A											
1803D92-005	Source Water	Water	3/23/2018 10:00	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample Cyanide (3) March 2018 **Work Order:** 1803D92
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/23/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1803D92-001A	East	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/23/2018 9:30	2 days	Present	☐	
1803D92-002A	Middle	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/23/2018 9:35	2 days	Present	☐	
1803D92-003A	West	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/23/2018 9:40	2 days	Present	☐	
1803D92-004A	Tiger Pit Effluent	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/23/2018 9:45	2 days	None	☐	
1803D92-005A	Source Water	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mLa HDPE w/ NaOH + Na2S2O3	☐	3/23/2018 10:00	2 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1803D92

RUSH!

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) **Fax:** ( )

Project Name: Resample Cyanide (3) March 2018

Project Location:

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other
East		G	3/23/18	09:30	1	250ml Poly Amb	X			X		X			
Middle		G	3/23/18	09:35	1	250ml Poly Amb	X			X		X			
West		G	3/23/18	09:40	1	250ml Poly Amb	X			X		X			
Tiger Pit Effluent		G	3/23/18	09:45		250ml Poly Amb	X			X		X			
Source Water		G	3/23/18	10:00		250ml Poly Amb	X			X		X			

Analysis Request

Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Cyanide (TOTAL) by SM4500 CN-ABCE
X					
X					
X					
X					
X					

Remarks

Relinquished By:	Date:	Time:	Received By:
	3/23/18	10:30	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2.4 WET
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/23/2018 10:30**
Project:	**Resample Cyanide (3) March 2018**	Date Logged:	**3/23/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1803D92** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 2.4°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Pacific Gas and Electric Company

Mailing Address
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

RECEIVED BY
DELTA DIABLO
JUL 12 2018

July 11, 2018

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending June 30, 2018)

Dear Mr. Auer,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending June 30, 2018, as required under DDD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Average Daily HRSG Blow-down Steam Cycles, WSAC Operating Months Report, Laboratory Results, and Flowmeter Calibration Report.

As a result of the February 2018 cyanide event on semi-annual monitoring of the categorical waste stream, GGS conducted investigation of its waste stream, cleaned up several waste water storage tanks, and collected resamples to ensure that the cause of the event was mitigated and recurrence prevented. The time-line report associated with this corrective action will be submitted separately.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company®

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

July 11, 2018

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending June 30, 2018)

Dear Mr. Auer,

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As a result of the February 2018 cyanide event on semi-annual monitoring of the categorical waste stream, GGS conducted investigation of its waste stream, cleaned up several waste water storage tanks, and collected resamples to ensure that the cause of the event was mitigated and recurrence prevented. The time-line report associated with this corrective action will be submitted separately.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in June 301, 2018

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DDSD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2019.

The report includes the following attachments:

Attachment 1:	Certification Statement
Attachment 2:	Industrial User Compliance Report
Attachment 3:	Industrial Monitoring Report Summary
Attachment 4:	Discharge Flow Data
Attachment 5:	Monthly Flow Data
Attachment 6:	WSAC Operating Hours Report
Attachment 7:	Cycles of Concentration
Attachment 8:	Laboratory Results
Attachment 9:	Flowmeter Calibration Report

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station

Address: 3225 Wilbur Avenue, Antioch, CA. 94509

Phone: 925-522-7805

Period Covered: Period ending June 30, 2018

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

Signature: Tim Wisdom **Date:** July 13, 2018

Print Name: Tim Wisdom

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Michael Auer Pretreatment
Fax # (925)756-1961 Phone: (925)756-1929
From: Tim Wisdom
Company: Pacific Gas and Electric Company – Gateway Generating Station
Period Covered: Period ending June 30, 2018

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

_√_ _ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)
____ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2017 SMR)
_√__ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)
_√__ Certification statement included (See Attachment 1)

Violations (if applicable)

_√_ All wastewater discharge exceedance are reported during this reporting period
___ Delta Diablo was contacted. (See Additional Notes below)
___ A follow-up report on characterization re-sampling was submitted on
___ Corrective actions to resolve violation:
____ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

All violations will be discussed in the cover letter of the self-monitoring report.

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

Industrial Wastewater Self-Monitoring Requirements

Combined Site Flow (FAC-Control Manhole, E-001)
Categorical Waste Stream (Wastewater Tank, I-001)

Parameter	Units	Sample Type	Sample Frequency				Limits	
			Q1	Q2	Q3	Q4	E-001	I-001
Flow	gal/min	N/A	N/A	N/A	N/A	N/A	39.05	N/A
Flow	gal/day	N/A	E-001	E-001	E-001	E-001	51120	N/A
Flow	gal/month	N/A	E-001	E-001	E-001	E-001	N/A	N/A
pH	S.U.	Grab	E-001		E-001		6-10	
BOD	mg/L	Composite	E-001		E-001			
COD	mg/L	Composite	E-001		E-001			
TDS	mg/L	Composite	E-001		E-001			
TSS	mg/L	Composite	E-001		E-001			
126 Priority Pollutants	mg/L	Grab/ Composite	I-001		I-001			ND
Arsenic	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.15	ND
Cadmium	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.1	ND
Chromium	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.5	0.2
Copper	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.5	ND
Iron	mg/L	Composite	E-001		E-001			
Lead	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.5	ND
Mercury	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.003	ND
Molybdenum	mg/L	Composite	E-001		E-001			
Nickel	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.5	ND
Selenium (EPA 200.8) reaction mode	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.25	ND
Silver	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	0.2	ND
Zinc	mg/L	Composite	E-001 I-001	I-001	E-001 I-001	I-001	1	1
Cyanide	mg/L	Grab	E-001		E-001		0.2	
Cyanide (Total)	mg/L	Grab	I-001		I-001			ND
Total Phenolics (EPA 420.4)	mg/L	Grab	E-001		E-001		1	
Ammonia as N	mg/L	Grab	E-001		E-001		200	

Industrial Wastewater Self-Monitoring Requirements

Combined Site Flow (FAC-Control Manhole, E-001)
Categorical Waste Stream (Wastewater Tank, I-001)

Parameter	Units	Sample Type	Sample Frequency				Limits	
			Q1	Q2	Q3	Q4	E-001	I-001
Oil & Grease Animal/Vegetable (EPA 1664)	mg/L	Grab	E-001		E-001		300	
Oil & Grease Petroleum/Mineral (EPA 1664) (SGT-HEM)	mg/L	Grab	E-001		E-001		100	
TTO (EPA 608)	mg/L	Grab	E-001 I-001		E-001 I-001			ND
TTO (EPA 624)	mg/L	Grab	E-001 I-001		E-001 I-001		2	ND
TTO (EPA 625)	mg/L	Grab	E-001 I-001		E-001 I-001			ND
Sulfide	mg/L	Grab	E-001					
Sulfate	mg/L	Grab	E-001					

INDUSTRIAL MONITORING REPORT SUMMARY **(Combined Site Flow: FAC - Control Manhole Local Limits: E-001)**

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE	3/8/2017	3/9/2017	3/9/2017	3/9/2017				
TYPE	G	G	C24	G				
STATION	E-001	E-001	E-001	E-001				
SMP.BY	Muskan	Muskan	Muskan	Muskan				
PURPOSE	Compliance Semiannual (SA1)	Compliance Semiannual (SA1)	Compliance Semiannual (SA1)	Compliance Annual (A)				

units in mg/l unless otherwise noted

PARAMETERS	**LIMITS**								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.	7.31							
BOD				15					
COD				14					
TDS				270					
TSS				ND (<1.00)					
Arsenic	0.15			ND (<0.0005)					
Cadmium	0.1			ND (<0.00025)					
Chromium	0.5			ND (<0.0005)					
Copper	0.5			0.0047					
Iron				0.079					
Lead	0.5			ND (<0.0005)					
Mercury	0.003			ND (<0.0002)					
Molybdenum				0.056					
Nickel	0.5			0.0021					
Selenium	0.25			ND (<0.0005)					
Silver	0.2			ND (<0.00019)					
Zinc	1.00			0.23					
Cyanide	0.2		ND (<0.001)						
Phenol	1.00		0.0039						
Ammonia	200		17						
O&G Petro/Min (E1664A w/ Silica)	100	ND (<5.5)	ND (<5.0)						
O&G Animal/Vegetable Oil	300	8.2	ND (<5.0)						
TTO EPA 608			ND						
TTO EPA 624			0.006						
TTO EPA 625			0.007						
TTO	2.00		0.013						
Sulfide					0.057				
Sulfate					18				

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

INDUSTRIAL MONITORING REPORT SUMMARY (**Industrial Waste: I-001**)

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE	6/13/2018						
TYPE	C24						
STATION	I-001						
SMP.BY	A. Espiritu						
PURPOSE	Compliance Quarterly (Q2)						

units in mg/l unless otherwise noted

LIMITS

PARAMETERS	WSAC In Operation	WSAC Not In Operation							
FLOW, DAILY (gal)	51,120	51,120							
FLOW, MONTH (gal)									
126 Priority Pollutants	ND (<0.01)	NA							
Dichlorobromomethane (047)	ND (<0.01)	NA							
Chloroform (022)	ND (<0.01)	NA							
Dibromochloromethane (048)	ND (<0.01)	NA							
Tetrachlorodibenzopdioxin-TCDD (126)	ND (<0.01)	NA							
Arsenic (112)	ND (<0.01)	0.15	0.00071						
Cadmium(115)	ND (<0.01)	0.1	0.000053						
Chromium (116)	0.2	0.5	0.00028						
Copper (117)	1.0*		0.0002						
Lead (119)	ND (<0.01)	0.5	ND (<0.0005)						
Mercury (120)	ND (<0.01)	0.003	ND (<0.0002)						
Nickel (121)	ND (<0.01)	0.50	0.0015						
Selenium (122)	ND (<0.01)	0.25	0.00021						
Silver (123)	ND (<0.01)	0.2	ND (<0.00019)						
Zinc (125)	1	1	0.12						
Cyanide (Total) (118)	ND (<0.01)	0.2							
TTO EPA 608									
TTO EPA 624									
TTO EPA 625									
TTO		2.00							

Comments: ND = Non-Detect, NSD = No Structures Detected, NA = Not Applicable, MFL = Millions of Fibers per Liter

All 126 Priority Pollutants were tested; however, only identified pollutants above ND in this summary or required for quarterly testing. Priority pollutant number as identified in Appendix B of the permit is listed in parenthesis next to the parameter. Refer to Attachment 8 to view all results. Per the preamble to the 1982 version of the final rule for the Steam Electric Category, 40 CFR 423, pg. 52295, DD interpretation is that ND is less than 10 ppb (i.e. 0.01 mg/L). Results reported as indicated in the analytical results. * - as per phone conversation with DDD (Mike Auer) (also as indicated on page 11 of the Permit) on 07/05/2018.

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

April 2018-June 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
4/1/2018	34.6	0.0	NO	47,256	0.0	0	NO		47,256
4/2/2018	34.9	0.0	NO	38,125	20.8	0	NO	392	38,517
4/3/2018	36.1	1.0	NO	25,645	21.2	0	NO	380	26,026
4/4/2018	34.6	0.0	NO	35,209	20.9	0	NO	357	35,566
4/5/2018	-0.1	0.0	NO		22.0	0	NO	376	376
4/6/2018	-0.3	0.0	NO		0.0	0	NO		-
4/7/2018	34.6	2.0	NO	9,289	0.0	2	NO		9,289
4/8/2018	34.5	0.0	NO	8,134	21.7	0	NO	386	8,521
4/9/2018	-0.2	0.0	NO		22.2	0	NO	388	388
4/10/2018	35.1	0.0	NO	6,207	19.7	1	NO	388	6,595
4/11/2018	2.9	1.0	NO		0.0	1	NO	1	1
4/12/2018	-0.6	0.0	NO		19.9	0	NO	396	396
4/13/2018	-0.5	0.0	NO		20.7	0	NO	400	400
4/14/2018	-0.5	0.0	NO		0.1	0	NO		-
4/15/2018	-0.5	0.0	NO		20.7	0	NO	391	391
4/16/2018	-0.7	0.0	NO		20.6	0	NO	389	389
4/17/2018	-0.5	0.0	NO		20.4	0	NO	395	395
4/18/2018	-0.5	3.0	NO		20.7	3	NO	386	386
4/19/2018	-0.5	0.0	NO		20.5	0	NO	381	381
4/20/2018	-0.5	0.0	NO		0.1	0	NO	0	0
4/21/2018	-0.5	0.0	NO		21.2	0	NO	387	387
4/22/2018	-0.5	0.0	NO		0.0	0	NO		-
4/23/2018	-0.5	0.0	NO		22.1	0	NO	381	381
4/24/2018	-0.5	0.0	NO		21.3	0	NO	388	388
4/25/2018	-0.5	0.0	NO		0.0	0	NO		-
4/26/2018	-0.6	0.0	NO		21.9	0	NO	395	395
4/27/2018	34.4	0.0	NO	2,908	22.7	0	NO	383	3,291
4/28/2018	34.8	0.0	NO	7,863	0.1	0	NO	7	7,870
4/29/2018	34.2	0.0	NO	20,128	0.1	0	NO	2	20,130
4/30/2018	35.8	5.0	NO	14,695	20.6	0	NO	368	15,063
								Max Daily Flow (Limit: 51,120):	47,256
								Monthly Total:	**223,178**
5/1/2018	-0.1	0.0	NO		21.2	0	NO	372	372
5/2/2018	-0.3	0.0	NO		0.1	0	NO	4	4
5/3/2018	34.3	0.0	NO	13,629	21.6	0	NO	379	14,008
5/4/2018	35.6	4.0	NO	30,862	0.0	0	NO		30,862
5/5/2018	34.9	0.0	NO	44,856	20.6	0	NO	367	45,223
5/6/2018	35.4	0.0	NO	34,744	0.1	0	NO		34,744
5/7/2018	35.0	0.0	NO	31,313	0.0	0	NO		31,313
5/8/2018	35.3	0.0	NO	45,563	20.7	0	NO	370	45,933
5/9/2018	35.4	0.0	NO	37,654	20.9	0	NO	365	38,019
5/10/2018	35.0	0.0	NO	28,424	0.1	1	NO	365	28,788
5/11/2018	34.8	1.0	NO	27,069	21.7	1	NO	385	27,453
5/12/2018	34.4	0.0	NO	41,583	0.0	0	NO		41,583
5/13/2018	33.7	0.0	NO	9,462	0.0	0	NO		9,462
5/14/2018	0.6	0.0	NO		0.0	0	NO		-
5/15/2018	34.5	0.0	NO	31,408	22.5	0	NO	544	31,952
5/16/2018	34.5	0.0	NO	16,780	0.1	0	NO	2	16,781
5/17/2018	0.0	0.0	NO		22.3	0	NO	356	356
5/18/2018	-0.3	0.0	NO		0.0	0	NO		-
5/19/2018	-0.2	0.0	NO		20.5	0	NO	372	372
5/20/2018	0.1	0.0	NO		0.1	0	NO	1	1
5/21/2018	0.3	0.0	NO		0.0	0	NO		-
5/22/2018	34.5	0.0	NO	14,213	21.3	0	NO	375	14,588

PG&E Gateway Generating Station

Discharge Flow Data

April 2018-June 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
5/23/2018	35.1	0.0	NO	7,420	0.1	0	NO		7,420
5/24/2018	35.0	0.0	NO	2,634	21.6	0	NO	393	3,027
5/25/2018	34.2	0.0	NO	3,868	0.0	0	NO	1	3,869
5/26/2018	35.0	0.0	NO	6,888	0.0	0	NO		6,888
5/27/2018	34.2	0.0	NO	1,637	21.5	0	NO	365	2,002
5/28/2018	34.6	0.0	NO	11,643	0.1	0	NO		11,643
5/29/2018	35.6	1.0	NO	20,403	0.1	0	NO		20,403
5/30/2018	35.4	0.0	NO	10,022	21.1	0	NO	385	10,407
5/31/2018	34.5	0.0	NO	14,031	20.2	0	NO	373	14,404
								Max Daily Flow (Limit: 51,120):	45,933
								Monthly Total:	**491,880**
6/1/2018	35.2	0.0	NO	14,514	0.1	0	NO	7	14,521
6/2/2018	35.6	2.0	NO	45,410	0.1	0	NO		45,410
6/3/2018	35.6	1.0	NO	37,475	0.0	0	NO		37,475
6/4/2018	35.4	0.0	NO	48,212	21.9	0	NO	406	48,618
6/5/2018	35.1	0.0	NO	44,461	21.0	0	NO	387	44,848
6/6/2018	35.2	91.0	NO	39,879	0.1	55	NO		39,879
6/7/2018	35.2	0.0	NO	20,303	20.9	0	NO	384	20,687
6/8/2018	0.0	0.0	NO		0.0	0	NO		-
6/9/2018	35.2	0.0	NO	9,559	21.6	0	NO	377	9,936
6/10/2018	35.1	0.0	NO	19,882	0.1	1	NO	377	20,259
6/11/2018	35.1	1.0	NO	30,401	0.1	1	NO		30,401
6/12/2018	34.9	0.0	NO	30,826	20.3	0	NO	360	31,186
6/13/2018	34.6	0.0	NO	43,977	21.4	0	NO	381	44,358
6/14/2018	37.0	1.0	NO	48,227	21.9	0	NO	386	48,613
6/15/2018	34.8	0.0	NO	18,455	0.0	0	NO		18,455
6/16/2018	35.0	0.0	NO	27,273	21.8	0	NO	374	27,647
6/17/2018	35.0	0.0	NO	31,147	0.1	0	NO	0	31,148
6/18/2018	35.4	0.0	NO	29,254	0.0	0	NO		29,254
6/19/2018	35.4	0.0	NO	37,913	21.5	0	NO	394	38,307
6/20/2018	34.7	0.0	NO	32,544	20.4	0	NO	376	32,920
6/21/2018	35.1	0.0	NO	36,665	0.0	0	NO		36,665
6/22/2018	35.3	0.0	NO	32,432	21.2	0	NO	393	32,824
6/23/2018	35.3	0.0	NO	33,550	0.0	0	NO		33,550
6/24/2018	35.1	0.0	NO	22,216	0.0	0	NO		22,216
6/25/2018	34.7	0.0	NO	44,113	21.1	0	NO	372	44,485
6/26/2018	34.4	0.0	NO	34,132	22.0	0	NO	373	34,505
6/27/2018	34.9	0.0	NO	27,634	0.0	0	NO		27,634
6/28/2018	35.0	0.0	NO	35,864	21.5	0	NO	394	36,258
6/29/2018	34.9	0.0	NO	21,807	0.0	0	NO		21,807
6/30/2018	35.2	0.0	NO	22,301	21.0	0	NO	382	22,683
								Max Daily Flow (Limit: 51,120):	48,618
								Monthly Total:	**926,551**

Notes:

The high flow on 6/6/2018 was was a result of the meter going bad. The plant logs indicate that there was no discharge at the time of high flow. The system was on LOTO and the flowmeter was being calibrated at the time.

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**
Address: 3225 Wilbur Avenue, Antioch, CA 94509
City: Antioch
Contact Name: Tim Wisdom
Flow Meter: Sewer Final Effluent ____ City Water Meter ____
(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2018**

Month	Flow (gallons)	Due Date
January		
February		
March		
April	223,178	7/15/2018
May	491,880	7/15/2018
June	926,551	7/15/2018
July		
August		
September		
October		
November		
December		

Note:
1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.
2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report

April 2018 to June 2018

WSAC Operation	
Month	Hours of Operation
January-18	
February-18	
March-18	
April-18	0.00
May-18	98.33
June-18	355.42
July-18	
August-18	
September-18	
October-18	
November-18	
December-18	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

April 2018 to June 2018

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-18	
February-18	
March-18	
April-18	(WSAC not in service)
May-18	4.09
June-18	4.04
July-18	
August-18	
September-18	
October-18	
November-18	
December-18	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Quarterly Monitoring of Categorical Waste Stream
(I-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1806621 **Amended:** 06/15/2018

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: I-001 Q2-2018

Project Received: 06/13/2018

Analytical Report reviewed & approved for release on 06/15/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"
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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: I-001 Q2-2018
WorkOrder: 1806621

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: I-001 Q2-2018
WorkOrder: 1806621

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
j1	See attached narrative.

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.

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Case Narrative

Client: PG&E Gateway Generating Station
Project: I-001 Q2-2018

Work Order: 1806621
June 15, 2018

Our standard ICP-MS analytical procedure is to analyze selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1806621
Date Received:	6/13/18 14:30	**Extraction Method:**	E245.2
Date Prepared:	6/13/18	**Analytical Method:**	E245.2
Project:	I-001 Q2-2018	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001-HG	1806621-002A	Water	06/13/2018 12:05	AA1 _15	159870

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	06/14/2018 10:37

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1806621
Date Received:	6/13/18 14:30	**Extraction Method:**	E200.8
Date Prepared:	6/13/18	**Analytical Method:**	E200.8
Project:	I-001 Q2-2018	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1806621-001A	Water	06/13/2018 12:05	ICP-MS1 077SMPL.D	159843

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Arsenic	**0.71**		0.19	0.50	1	06/14/2018 21:21
Cadmium	**0.053**	J	0.040	0.25	1	06/14/2018 21:21
Chromium	**0.28**	J	0.14	0.50	1	06/14/2018 21:21
Copper	**20**		0.10	2.0	1	06/14/2018 21:21
Lead	ND		0.078	0.50	1	06/14/2018 21:21
Nickel	**1.5**		0.18	0.50	1	06/14/2018 21:21
Selenium	**0.21**	J	0.15	0.50	1	06/14/2018 21:21
Silver	ND		0.025	0.19	1	06/14/2018 21:21
Zinc	**120**		5.0	15	1	06/14/2018 21:21

Surrogates	REC (%)	Limits	
Terbium	95	70-130	06/14/2018 21:21

Analyst(s): ND Analytical Comments: j1

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1806621
Date Prepared:	6/13/18	**BatchID:**	159870
Date Analyzed:	6/14/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	I-001 Q2-2018	**Sample ID:**	MB/LCS-159870 1806614-001AMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Mercury	ND	1.91	0.20	2	-	95	85-115

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	0.857	0.979	2	ND	43,F1	49,F1	80-120	13.3	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1806621
Date Prepared:	6/12/18 - 6/13/18	**BatchID:**	159843
Date Analyzed:	6/14/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	I-001 Q2-2018	**Sample ID:**	MB/LCS/LCSD-159843

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.19	0.50	-	-	-
Cadmium	ND	0.040	0.25	-	-	-
Chromium	ND	0.14	0.50	-	-	-
Copper	ND	0.10	2.0	-	-	-
Lead	ND	0.078	0.50	-	-	-
Nickel	ND	0.18	0.50	-	-	-
Selenium	ND	0.15	0.50	-	-	-
Silver	ND	0.025	0.19	-	-	-
Zinc	ND	5.0	15	-	-	-
Surrogate Recovery						
Terbium	762			750	102	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	54.2	55.4	50	108	111	85-115	2.17	20
Cadmium	54.4	54.2	50	109	108	85-115	0.276	20
Chromium	54.1	52.5	50	108	105	85-115	2.96	20
Copper	52.8	53.0	50	106	106	85-115	0	20
Lead	53.4	53.7	50	107	107	85-115	0	20
Nickel	53.0	53.8	50	106	108	85-115	1.39	20
Selenium	55.0	54.9	50	110	110	85-115	0	20
Silver	52.6	52.8	50	105	106	85-115	0.285	20
Zinc	532	538	500	106	108	85-115	1.12	20
Surrogate Recovery								
Terbium	800	802	750	107	107	70-130	0	20

McCampbell Analytical, Inc.
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1806621 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: T1WY@pge.com; DJH2@pge.com;
PO:
Project: I-001 Q2-2018

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **2 days;**

Date Received: **06/13/2018**
Date Logged: **06/13/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1806621-001	I-001	Water	6/13/2018 12:05	☐		A										
1806621-002	I-001-HG	Water	6/13/2018 12:05	☐	A											

Test Legend:

1	HG_W	2	METALSMS_TTLC_W [J]	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Nancy Palacios

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** I-001 Q2-2018 **Work Order:** 1806621
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 6/13/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1806621-001A	I-001	Water	E200.8 (Metals) <Arsenic, Calcium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	6/13/2018 12:05	2 days	None	☐	
1806621-002A	I-001-HG	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	6/13/2018 12:05	2 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1806621

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
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Telephone: (877) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: ABE4@pge.com, T1WY@pge.com, DJH2@pge.com

Tel: 925- 522-7838, 510-681-1597 (Cell)

Project Name: I-001 Q2-2018

Project Location: Gateway Generating Station

Sampler Signature: Angel Espiritu

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Zinc Acetate	Analysis Request: Metals (200.8 antimony, chromium, copper, lead, nickel, silver, and zinc) cadmium per phone call 6/15/18	Metals (arsenis and selenium) 200.8 Selenium by reaction mode	Mercury (245.2)	Remarks
I-001	I-001 Sampling Point	C	6/13/18	12:05 pm	1	250 ml poly	X			X				X		X	X		
I-001-HG	I-001 Sampling Point	C	6/13/18	12:05 pm	1	250 ml poly	X			X				X				X	

Relinquished By:	Date:	Time:	Received By:
	6-13-18	2:05pm	
	6/13/18	1430	NPalacios 6.13.18 1430

ICE/t°_____ COMMENTS:

GOOD CONDITION_____

HEAD SPACE ABSENT_____

DECHLORINATED IN LAB_____

APPROPRIATE CONTAINERS_____

PRESERVED IN LAB_____

0.2 WET

VOAS O&G METALS OTHER

PRESERVATION_____ pH<2_____

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**6/13/2018 14:30**
Project:	**I-001 Q2-2018**	Date Logged:	**6/13/2018**
		Received by:	Nancy Palacios
WorkOrder №:	**1806621** Matrix: Water	Logged by:	Nancy Palacios
Carrier:	Benjamin Yslas (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 0.2°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA	☐
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA	☐
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:

Attachment 9
Annual Flowmeter Calibration

Gateway Generating Station
Annual Flowmeter Accuracy Test

Name and Signature of Tester: Steve "Gifford"
Date of Test: 6-6-18

Follow the testing procedure (per manufacturer's -YokogawaCorporation of America's recomemdation) below.

Flowmeter ID	Coil Resistance Check		Flow Tube Resistance Check		
	Reading (ohm/s)	Within +/- 10% (Y/N)?	Electrode A Reading (ohm/s)	Electrode A Reading (ohm/s)	Within 20% Difference (Y/N)?
Industrial Wastewater Flowmeter Tag No. 8WWC-FM-X001 Model No. Yokogawa AXF-100C Coil Resistance Value: **113.4** ohms	115	Yes	150K	130.5K	Yes
Sanitary Wastewater Flowmeter Tag No. 8WWB-FM-X001 Model No. Yokogawa AXF 650C Coil Resistance Value: **116.8** ohms	115	Yes	120K	120K	Yes

Procedure for testing AXF integral flowtubes

1. Remove power from the flow meter. Remove the display side cover from the meter electronics housing.
2. Remove three retaining screws with a Phillips head screwdriver used to hold the amplifier assembly in place.
3. Remove the white plastic connector (CN5) attached to the left side of the amplifier assembly. The connector has 3 wires (red, white & blue). Remove the white plastic connector (CN3) attached to the right side of the amplifier assembly. The connector has 2 wires (purple & yellow).
4. Remove the amplifier assembly and store it in a safe place.

Checking the coil circuits

5. Locate 2 wire connector (CN3). Measure the excitation coil resistance between the yellow wire and purple wire of connector CN3. The measured resistance should correspond to the resistance value shown above in table 2 within +/- 10%.
6. Confirm that there is more than 20 MOHMS resistance between each wire to the meter electronics housing. If leakage is detected consult Yokogawa at 800-524-SERV.

Checking the flow tube when filled with conductive liquid

7. Make certain that the meter flow tube is full of liquid with greater than one micro-siemen conductivity.
8. Locate connector CN5 (3 wire connector). Measure the resistance between the red wire (A) and the blue wire (C) of CN5. Record the value.
9. Measure the resistance between the white wire (B) and the blue wire (C) of CN5. Record the value.
10. Compare resistance readings obtained in steps 8 and 9 above. If the readings are less than 20% apart the meter flow tube is not suspect. Proceed to the reassembly instructions (step 13). If readings are greater than 20% apart proceed to step 11.

Checking the flow tube when empty and dry

11. Drain the meter flow tube of all conductive liquid. Measure the resistance between each electrode in the meter flow tube to CN5 red (A) or white (B). The resistance will be less than 3 Ohms for general purpose meters or 150 K ohms for FM approved meters.
12. Repeat steps 8 and 9 above. The resistance should be infinite. Any leakage measured maybe due to buildup of conductive material between the electrode and the meter tube. Clean
13. Replace the amplifier assembly and meter electronics housing cover.

Pacific Gas and Electric Company®

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

RECEIVED BY
DELTA DIABLO
OCT 10 2018

October 10, 2018

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending September 30, 2018)

Dear Mr. Auer,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending September 30, 2018, as required under DDD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Average Daily HRSG Blow-down Steam Cycles, WSAC Operating Months Report, and Laboratory Results.

On the semi-annual monitoring of the categorical waste stream on 09/19/2018, the result on total cyanide was 47 ppb (limit 10 ppb). A notification via email and telephone messages was submitted to the Delta Diablo promptly on 9/27/2018. The result on total cyanide exceeding 10 ppb is consistent with semi-annual monitoring events in the past. Each time, GGS reported the events, conducted investigations on possible causes, and implemented measures deemed to address the issue. Still, the issue remains. GGS is not aware of any confirmed source of cyanide at the site. GGS, however, is aware that this issue is commonly observed in the industry, possibly due to the very restrictive limit (10 ppb), when even the EPA's MCL drinking water standard is 200 ppb. On 08/01/2018, GGS, citing reference to Regulation 40 CFR 403.12(e)(2) and Section D.3, submitted a request for exemption on the 126 Priority Pollutants limit applicability.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in September 30, 2018

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DDSD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2019.

The report includes the following attachments:

Attachment 1:	Certification Statement
Attachment 2:	Industrial User Compliance Report
Attachment 3:	Industrial Monitoring Report Summary
Attachment 4:	Discharge Flow Data
Attachment 5:	Monthly Flow Data
Attachment 6:	WSAC Operating Hours Report
Attachment 7:	Cycles of Concentration
Attachment 8:	Laboratory Results

Attachment 1
Certification Statement

Certification Statement

Name of Business: **PG&E Gateway Generating Station**

Address: **3225 Wilbur Avenue, Antioch, CA. 94509**

Phone: **925-522-7805**

Period Covered: **Period ending September 30, 2018**

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

Signature:_____ **Date:**_____

Print Name: **Tim Wisdom**

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Michael Auer Pretreatment
Fax # (925)756-1961 Phone: (925)756-1929
From: Tim Wisdom
Company: Pacific Gas and Electric Company – Gateway Generating Station
Period Covered: Period ending September 30, 2018

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

_√__ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)
_√__ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2018 SMR)
_√__ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)
_√__ Certification statement included (See Attachment 1)

Violations (if applicable)

_√_ All wastewater discharge exceedance are reported during this reporting period
____ Delta Diablo was contacted. (See Additional Notes below)
____ A follow-up report on characterization re-sampling was submitted on
___ Corrective actions to resolve violation:
___ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

On the semi-annual monitoring of the categorical waste stream on 09/19/2018, the result on total cyanide was 47 ppb (limit 10 ppb). A notification via email and telephone messages was submitted to the Delta Diablo promptly on 9/27/2018. The result on total cyanide exceeding 10 ppb is consistent with semi-annual monitoring events in the past. Each time, GGS reported the events, conducted investigations on possible causes, and implemented measures deemed to address the issue. Still, the issue remains. GGS is not aware of any confirmed source of cyanide at the site. GGS, however, is aware that this issue is commonly observed in the industry, possibly due to the very restrictive limit (10 ppb), when even the EPA's MCL drinking water standard is 200 ppb. On 08/01/2018, GGS, citing reference to Regulation 40 CFR 403.12(e)(2) and Section D.3, submitted a request for exemption on the 126 Priority Pollutants limit applicability.

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY **(Combined Site Flow: FAC - Control Manhole Local Limits: E-001)**

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE					9/18/2018	9/19/2018	9/19/2018	
TYPE					G	G	C24	
STATION					E-001	E-001	E-001	
SMP.BY					Muskan	Muskan	Muskan	
PURPOSE					Compliance Semiannual (SA2)	Compliance Semiannual (SA2)	Compliance Semiannual (SA2)	

units in mg/l unless otherwise noted

PARAMETERS	**LIMITS**								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.								
BOD								ND (<4.00)	
COD								11	
TDS								568	
TSS								2.8	
Arsenic	0.15							0.00091	
Cadmium	0.1							ND (<0.00025)	
Chromium	0.5							ND (<0.0005)	
Copper	0.5							0.008	
Iron								0.2	
Lead	0.5							ND (<0.0005)	
Mercury	0.003						ND (<0.0002)		
Molybdenum								0.092	
Nickel	0.5							0.0019	
Selenium	0.25							ND (<0.0005)	
Silver	0.2							ND (<0.00019)	
Zinc	1.00							0.086	
Cyanide	0.2						0.039		
Phenol	1.00						0.15		
Ammonia	200						9.9		
O&G Petro/Min (E1664A w/ Silica)	100					6	ND (<5.0)		
O&G Animal/Vegetable Oil	300					18	22		
TTO EPA 608							ND		
TTO EPA 624							0.0022		
TTO EPA 625							0.006		
TTO	2.00						0.0082		
Sulfide									
Sulfate									

Comments: ND = Non-Detect, NSD = No Structures Detected, MFL = Millions of Fibers per Liter

In accordance with Footnote 2 of the table located in Section (D)(1) of the permit, PG&E is reporting the Oil & Grease (O&G) as follows: Petroleum/Mineral includes the silica gel (i.e. SGT-HEM) and Animal/Vegetable does not include silica gel

INDUSTRIAL MONITORING REPORT SUMMARY (Categorical **Waste Stream: I-001**)

IU NAME : PG&E Gateway Generating Station
ADDRESS: 3225 Wilbur Avenue
CITY : Antioch

ID #: 0208841-C
TYPE: Power Generation Plant
SIC: 4911

DATE		9/19/2018	9/19/2018				
TYPE		C24	G				
STATION		I-001	I-001				
SMP.BY		Muskan	Muskan				
PURPOSE		Compliance Quarterly (Q2)	Compliance SemiAnnual (SA2)				

units in mg/l unless otherwise noted

LIMITS

PARAMETERS	**WSAC In Operation**	**WSAC Not In Operation**							
FLOW, DAILY (gal)	51,120	51,120							
FLOW, MONTH (gal)									
126 Priority Pollutants	ND (<0.01)	NA							
Dichlorobromomethane (047)	ND (<0.01)	NA			0.0015				
Chloroform (022)	ND (<0.01)	NA			0.0012				
Dibromochloromethane (048)	ND (<0.01)	NA							
Tetrachlorodibenzopdioxin-TCDD (126)	ND (<0.01)	NA							
Antimony (111)	ND (<0.01)	0.15			ND (<0.0005)				
Arsenic (112)	ND (<0.01)	0.15		0.00071	0.00091				
Cadmium(115)	ND (<0.01)	0.1		ND (<0.00025)	ND (<0.00025)				
Chromium (116)	0.2	0.5		ND (<0.0005)	ND (<0.0005)				
Copper (117)	1.0*			0.0042	0.0043				
Lead (119)	ND (<0.01)	0.5		ND (<0.0005)	ND (<0.0005)				
Mercury (120)	ND (<0.01)	0.003		ND (<0.0002)	ND (<0.00005)				
Nickel (121)	ND (<0.01)	0.50		0.0014	0.0015				
Selenium (122)	ND (<0.01)	0.25		ND (<0.0005)	ND (<0.0005)				
Silver (123)	ND (<0.01)	0.2		ND (<0.00019)	ND (<0.00019)				
Zinc (125)	1	1		0.063	0.061				
Phenol (062)	1	1			0.00044				
Cyanide (Total) (118)	ND (<0.01)	0.2			**0.047**				
EPA 608					ND				
EPA 624					0.0027				
EPA 625					0.00734				

Comments: ND = Non-Detect, NSD = No Structures Detected, NA = Not Applicable, MFL = Millions of Fibers per Liter
All 126 Priority Pollutants were tested; however, only identified pollutants above ND in this summary or required for quarterly testing. Priority pollutant number as identified in Appendix B of the permit is listed in parenthesis next to the parameter. Refer to Attachment 8 to view all results. Per the preamble to the 1982 version of the final rule for the Steam Electric Category, 40 CFR 423, pg. 52295, DD interpretation is that ND is less than 10 ppb (i.e. 0.01 mg/L). Results reported as indicated in the analytical results. * - as per phone conversation with DDD (Mike Auer) (also as indicated on page 11 of the Permit) on 07/05/2018.

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

July 2018-September 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
7/1/2018	35.1	0.0	NO	32,344	0.0	0	NO		32,343.80
7/2/2018	34.5	0.0	NO	20,575	0.0	0	NO		20,575.36
7/3/2018	34.6	0.0	NO	14,518	21.4	0	NO	403	14,921.38
7/4/2018	35.1	0.0	NO	15,118	0.1	0	NO		15,118.26
7/5/2018	35.5	0.0	NO	27,919	21.1	0	NO	389	28,307.61
7/6/2018	34.5	0.0	NO	17,247	0.0	0	NO		17,246.66
7/7/2018	35.3	0.0	NO	38,323	0.0	0	NO		38,322.67
7/8/2018	35.5	0.0	NO	30,927	21.6	0	NO	366	31,293.21
7/9/2018	35.1	0.0	NO	31,245	0.1	0	NO		31,244.76
7/10/2018	35.1	0.0	NO	31,759	21.3	1	NO		31,758.75
7/11/2018	35.1	1.0	NO	25,054	20.7	1	NO	368	25,421.36
7/12/2018	35.5	0.0	NO	33,371	0.1	0	NO		33,371.07
7/13/2018	35.1	0.0	NO	22,749	20.6	0	NO	368	23,117.58
7/14/2018	34.9	0.0	NO	22,615	0.0	0	NO		22,615.30
7/15/2018	35.2	0.0	NO	30,876	0.0	0	NO		30,875.57
7/16/2018	35.6	1.0	NO	24,820	20.8	0	NO	356	25,175.10
7/17/2018	34.5	0.0	NO	17,952	0.1	0	NO		17,951.69
7/18/2018	34.8	0.0	NO	18,565	21.5	0	NO	372	18,936.42
7/19/2018	35.3	0.0	NO	25,205	0.0	0	NO		25,205.43
7/20/2018	35.6	2.0	NO	41,255	21.3	0	NO	371	41,626.04
7/21/2018	34.8	0.0	NO	29,895	0.1	0	NO		29,895.39
7/22/2018	35.2	0.0	NO	28,932	0.0	0	NO		28,931.54
7/23/2018	34.8	0.0	NO	22,354	20.7	0	NO	347	22,700.85
7/24/2018	35.2	0.0	NO	30,803	20.5	0	NO	369	31,172.70
7/25/2018	35.2	0.0	NO	31,141	0.1	0	NO		31,141.34
7/26/2018	35.4	0.0	NO	24,572	20.4	0	NO	367	24,939.42
7/27/2018	35.4	0.0	NO	28,827	0.0	0	NO		28,826.71
7/28/2018	36.0	8.0	NO	35,251	0.0	0	NO		35,251.19
7/29/2018	35.0	0.0	NO	15,808	19.6	0	NO	373	16,181.09
7/30/2018	35.4	0.0	NO	35,595	0.0	0	NO		35,594.64
7/31/2018	35.0	0.0	NO	26,793	20.4	0	NO	388	27,180.88
								Max Daily Flow (Limit: 51,120):	41,626
								Monthly Total:	**837,244**
8/1/2018	34.9	0.0	NO	48,219	19.5	0	NO	361	48,581
8/2/2018	34.9	0.0	NO	33,049	0.1	0	NO	3	33,052
8/3/2018	35.1	0.0	NO	22,534	20.2	0	NO	371	22,905
8/4/2018	35.1	0.0	NO	34,027	0.1	0	NO		34,027
8/5/2018	35.3	0.0	NO	33,508	0.0	0	NO		33,508
8/6/2018	35.1	0.0	NO	27,320	21.0	0	NO	351	27,671
8/7/2018	34.7	0.0	NO	27,985	0.1	0	NO		27,985
8/8/2018	35.3	0.0	NO	22,454	20.7	0	NO	387	22,841
8/9/2018	35.2	0.0	NO	18,923	0.0	0	NO		18,923
8/10/2018	35.0	0.0	NO	19,268	21.1	1	NO		19,268
8/11/2018	34.9	1.0	NO	14,488	0.0	1	NO		14,488
8/12/2018	35.3	0.0	NO	47,055	0.0	0	NO		47,055
8/13/2018	34.9	0.0	NO	40,922	21.1	0	NO	363	41,285
8/14/2018	35.2	0.0	NO	17,928	20.8	0	NO	405	18,333
8/15/2018	35.3	0.0	NO	23,035	0.0	0	NO		23,035
8/16/2018	35.3	0.0	NO	26,704	20.2	0	NO	386	27,091
8/17/2018	35.5	0.0	NO	33,764	20.7	0	NO	382	34,145
8/18/2018	35.1	0.0	NO	35,496	0.1	0	NO	2	35,499
8/19/2018	35.1	0.0	NO	34,569	0.0	0	NO		34,569
8/20/2018	35.5	0.0	NO	32,651	20.9	0	NO	373	33,025
8/21/2018	35.6	1.0	NO	36,062	0.0	0	NO		36,062

PG&E Gateway Generating Station

Discharge Flow Data

July 2018-September 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
8/22/2018	35.6	1.0	NO	28,338	21.5	0	NO	376	28,714
8/23/2018	34.7	0.0	NO	32,989	20.7	0	NO	397	33,386
8/24/2018	34.7	0.0	NO	4,577	0.0	0	NO		4,577
8/25/2018	34.4	0.0	NO	14,064	20.9	0	NO	380	14,443
8/26/2018	34.8	0.0	NO	28,344	0.0	0	NO		28,344
8/27/2018	35.1	0.0	NO	32,352	0.0	0	NO		32,352
8/28/2018	35.1	0.0	NO	30,116	20.6	0	NO	380	30,496
8/29/2018	35.3	0.0	NO	39,532	21.5	0	NO	377	39,909
8/30/2018	34.4	0.0	NO	28,763	0.0	0	NO		28,763
8/31/2018	34.9	0.0	NO	40,886	21.1	0	NO	377	41,263
								Max Daily Flow (Limit: 51,120):	48,581
								Monthly Total:	**915,593**
9/1/2018	35.0	0.0	NO	39,364	0.0	0	NO		39,364
9/2/2018	35.1	0.0	NO	24,670	0.0	0	NO		24,670
9/3/2018	34.4	0.0	NO	32,408	0.0	0	NO		32,408
9/4/2018	34.5	0.0	NO	17,909	20.9	0	NO	371	18,280
9/5/2018	34.7	0.0	NO	38,075	20.9	0	NO	387	38,462
9/6/2018	34.5	0.0	NO	21,664	0.0	0	NO		21,664
9/7/2018	35.4	0.0	NO	31,749	20.1	0	NO	369	32,118
9/8/2018	34.5	0.0	NO	11,593	0.0	0	NO		11,593
9/9/2018	35.1	0.0	NO	30,896	0.0	0	NO		30,896
9/10/2018	35.3	0.0	NO	33,067	21.2	1	NO		33,067
9/11/2018	35.2	1.0	NO	23,881	0.1	1	NO	6	23,887
9/12/2018	34.6	0.0	NO	12,352	20.9	0	NO	371	12,722
9/13/2018	35.2	0.0	NO	30,170	21.4	0	NO	378	30,548
9/14/2018	34.9	0.0	NO	14,981	0.1	0	NO	6	14,988
9/15/2018	35.1	0.0	NO	23,696	0.0	0	NO		23,696
9/16/2018	34.8	0.0	NO	22,851	0.0	0	NO		22,851
9/17/2018	34.9	0.0	NO	26,258	21.1	0	NO	401	26,659
9/18/2018	34.2	0.0	NO	23,417	20.2	0	NO	206	23,624
9/19/2018	34.7	0.0	NO	34,922	20.7	0	NO	448	35,370
9/20/2018	34.6	0.0	NO	30,194	20.7	0	NO	386	30,579
9/21/2018	35.2	0.0	NO	38,017	0.1	0	NO	7	38,024
9/22/2018	35.1	0.0	NO	38,382	0.0	0	NO		38,382
9/23/2018	35.0	0.0	NO	28,578	0.0	0	NO		28,578
9/24/2018	27.0	0.0	NO	5,043	21.3	0	NO	391	5,433
9/25/2018	34.8	0.0	NO	34,043	21.0	0	NO	328	34,371
9/26/2018	35.0	0.0	NO	48,603	20.3	0	NO	392	48,994
9/27/2018	34.7	0.0	NO	48,992	0.0	0	NO		48,992
9/28/2018	35.1	0.0	NO	33,156	21.4	0	NO	394	33,550
9/29/2018	35.0	0.0	NO	25,947	0.0	0	NO		25,947
9/30/2018	34.8	0.0	NO	27,168	0.0	0	NO		27,168
								Max Daily Flow (Limit: 51,120):	48,994
								Monthly Total:	**856,884**

Notes :

Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**
Address: 3225 Wilbur Avenue, Antioch, CA 94509
City: Antioch
Contact Name: Tim Wisdom
Flow Meter: Sewer Final Effluent ____ City Water Meter ____
(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2018**

Month	Flow (gallons)	Due Date
January		
February		
March		
April		
May		
June		
July	837,244	10/15/2018
August	915,593	10/15/2018
September	856,884	10/15/2018
October		
November		
December		

Note:
1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.
2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report

July 2018 to September 2018

WSAC Operation	
Month	Hours of Operation
January-18	
February-18	
March-18	
April-18	
May-18	
June-18	
July-18	419.00
August-18	344.33
September-18	277.67
October-18	
November-18	
December-18	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

July 2018 to September 2018

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-18	
February-18	
March-18	
April-18	
May-18	
June-18	
July-18	3.57
August-18	3.33
September-18	3.09
October-18	
November-18	
December-18	

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Semi-annual Monitoring of Combined Flows (E-001),
Quarterly and Semi-annual Monitoring of Categorical Waste Stream
(I-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1809781 **Amended:** 09/28/2018

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Semi-Annually Sampling (September 2018)

Project Received: 09/19/2018

Analytical Report reviewed & approved for release on 09/27/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (September 2018)
WorkOrder: 1809781

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (September 2018)
WorkOrder: 1809781

Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample.
a3	Sample diluted due to high organic content.
j1	See attached narrative.

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (September 2018)

Work Order: 1809781
September 27, 2018

Our standard ICP-MS analytical procedure is to analyze arsenic and selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E1664A_SG
Date Prepared:	9/24/18-9/25/18	**Analytical Method:**	E1664A
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Hexane Extractable Material (HEM; Oil & Grease) with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001B	Water	09/19/2018 09:35	O&G	165198

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	09/25/2018 15:55

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-002A	Water	09/18/2018 09:05	O&G	165601

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	**6.0**	5.0	1	09/26/2018 15:10

Analyst(s): HN

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E1664A
Date Prepared:	9/21/18-9/25/18	**Analytical Method:**	E1664A
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Hexane Extractable Material (HEM; Oil & Grease) without Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001A	Water	09/19/2018 09:35	O&G	165164

Analytes	Result	RL	DF	Date Analyzed
HEM	**22**	5.0	1	09/24/2018 11:40

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-002B	Water	09/18/2018 09:05	O&G	165425

Analytes	Result	RL	DF	Date Analyzed
HEM	**24**	5.0	1	09/26/2018 14:40

Analyst(s): HN

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E608/SW3620B
Date Prepared:	9/19/18	**Analytical Method:**	E608
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001G	Water	09/19/2018 09:35	GC22 09211814.D	165139

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.0028	0.010	10	09/21/2018 16:46
a-BHC	ND	0.0031	0.010	10	09/21/2018 16:46
b-BHC	ND	0.0069	0.010	10	09/21/2018 16:46
d-BHC	ND	0.0014	0.010	10	09/21/2018 16:46
g-BHC	ND	0.0045	0.010	10	09/21/2018 16:46
Chlordane (Technical)	ND	0.023	0.20	10	09/21/2018 16:46
a-Chlordane	ND	0.0085	0.010	10	09/21/2018 16:46
g-Chlordane	ND	0.0015	0.010	10	09/21/2018 16:46
p,p-DDD	ND	0.0011	0.010	10	09/21/2018 16:46
p,p-DDE	ND	0.0018	0.010	10	09/21/2018 16:46
p,p-DDT	ND	0.0017	0.010	10	09/21/2018 16:46
Dieldrin	ND	0.0014	0.010	10	09/21/2018 16:46
Endosulfan I	ND	0.0011	0.010	10	09/21/2018 16:46
Endosulfan II	ND	0.0046	0.010	10	09/21/2018 16:46
Endosulfan sulfate	ND	0.0033	0.020	10	09/21/2018 16:46
Endrin	ND	0.0018	0.010	10	09/21/2018 16:46
Endrin aldehyde	ND	0.0053	0.010	10	09/21/2018 16:46
Endrin ketone	ND	0.0026	0.010	10	09/21/2018 16:46
Heptachlor	ND	0.0041	0.010	10	09/21/2018 16:46
Heptachlor epoxide	ND	0.0025	0.010	10	09/21/2018 16:46
Methoxychlor	ND	0.0012	0.010	10	09/21/2018 16:46
Toxaphene	ND	0.020	0.20	10	09/21/2018 16:46
Aroclor1016	ND	0.019	0.20	10	09/21/2018 16:46
Aroclor1221	ND	0.024	0.20	10	09/21/2018 16:46
Aroclor1232	ND	0.038	0.20	10	09/21/2018 16:46
Aroclor1242	ND	0.028	0.20	10	09/21/2018 16:46
Aroclor1248	ND	0.018	0.20	10	09/21/2018 16:46
Aroclor1254	ND	0.015	0.20	10	09/21/2018 16:46
Aroclor1260	ND	0.028	0.20	10	09/21/2018 16:46
PCBs, total	ND	0.20	0.20	10	09/21/2018 16:46

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	113	14-168	09/21/2018 16:46

Analyst(s): CK Analytical Comments: a3

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/20/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001E	Water	09/19/2018 09:35	GC28 09201816.D	165341

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	09/20/2018 19:43
Acrylonitrile	ND	2.0	1	09/20/2018 19:43
2-Chloroethyl Vinyl Ether	ND	1.0	1	09/20/2018 19:43

Surrogates	REC (%)	Limits	
Dibromofluoromethane	120	78-141	09/20/2018 19:43

Analyst(s): JEM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001D	Water	09/19/2018 09:35	GC10 09241811.D	165451

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/24/2018 14:10
Bromodichloromethane	**1.2**	0.50	1	09/24/2018 14:10
Bromoform	ND	0.50	1	09/24/2018 14:10
Bromomethane	ND	0.50	1	09/24/2018 14:10
Carbon tetrachloride	ND	0.50	1	09/24/2018 14:10
Chlorobenzene	ND	0.50	1	09/24/2018 14:10
Chloroethane	ND	0.50	1	09/24/2018 14:10
Chloroform	**1.0**	0.50	1	09/24/2018 14:10
Chloromethane	ND	0.50	1	09/24/2018 14:10
Dibromochloromethane	ND	0.50	1	09/24/2018 14:10
1,2-Dibromoethane (EDB)	ND	0.50	1	09/24/2018 14:10
1,2-Dichlorobenzene	ND	0.50	1	09/24/2018 14:10
1,3-Dichlorobenzene	ND	0.50	1	09/24/2018 14:10
1,4-Dichlorobenzene	ND	0.50	1	09/24/2018 14:10
1,1-Dichloroethane	ND	0.50	1	09/24/2018 14:10
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	09/24/2018 14:10
1,1-Dichloroethene	ND	0.50	1	09/24/2018 14:10
trans-1,2-Dichloroethene	ND	0.50	1	09/24/2018 14:10
1,2-Dichloropropane	ND	0.50	1	09/24/2018 14:10
cis-1,3-Dichloropropene	ND	0.50	1	09/24/2018 14:10
trans-1,3-Dichloropropene	ND	0.50	1	09/24/2018 14:10
Ethylbenzene	ND	0.50	1	09/24/2018 14:10
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/24/2018 14:10
Methylene chloride	ND	2.0	1	09/24/2018 14:10
1,1,2,2-Tetrachloroethane	ND	0.50	1	09/24/2018 14:10
Tetrachloroethene	ND	0.50	1	09/24/2018 14:10
Toluene	ND	0.50	1	09/24/2018 14:10
1,2,4-Trichlorobenzene	ND	0.50	1	09/24/2018 14:10
1,1,1-Trichloroethane	ND	0.50	1	09/24/2018 14:10
1,1,2-Trichloroethane	ND	0.50	1	09/24/2018 14:10
Trichloroethene	ND	0.50	1	09/24/2018 14:10
Trichlorofluoromethane	ND	0.50	1	09/24/2018 14:10
Vinyl chloride	ND	0.50	1	09/24/2018 14:10
m,p-Xylene	ND	0.50	1	09/24/2018 14:10
o-Xylene	ND	0.25	1	09/24/2018 14:10
Xylenes, Total	ND	0.25	1	09/24/2018 14:10

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001D	Water	09/19/2018 09:35	GC10 09241811.D	165451

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	105	78-141		09/24/2018 14:10
Toluene-d8	93	78-129		09/24/2018 14:10
4-BFB	84	61-140		09/24/2018 14:10

Analyst(s): TK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001F	Water	09/19/2018 09:35	GC17 09261825.D	165166

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.19	20	09/26/2018 21:13
Acenaphthylene	ND	0.19	20	09/26/2018 21:13
Anthracene	ND	0.19	20	09/26/2018 21:13
Benzidine	ND	95	20	09/26/2018 21:13
Benzo (a) anthracene	ND	0.38	20	09/26/2018 21:13
Benzo (a) pyrene	ND	0.19	20	09/26/2018 21:13
Benzo (b) fluoranthene	ND	0.095	20	09/26/2018 21:13
Benzo (g,h,i) perylene	ND	0.38	20	09/26/2018 21:13
Benzo (k) fluoranthene	ND	0.19	20	09/26/2018 21:13
Benzyl Alcohol	ND	95	20	09/26/2018 21:13
Bis (2-chloroethoxy) Methane	ND	19	20	09/26/2018 21:13
Bis (2-chloroethyl) Ether	ND	0.095	20	09/26/2018 21:13
Bis (2-chloroisopropyl) Ether	ND	0.19	20	09/26/2018 21:13
Bis (2-ethylhexyl) Adipate	ND	57	20	09/26/2018 21:13
Bis (2-ethylhexyl) Phthalate	**6.0**	0.76	20	09/26/2018 21:13
4-Bromophenyl Phenyl Ether	ND	19	20	09/26/2018 21:13
Butylbenzyl Phthalate	ND	38	20	09/26/2018 21:13
4-Chloroaniline	ND	0.38	20	09/26/2018 21:13
4-Chloro-3-methylphenol	ND	19	20	09/26/2018 21:13
2-Chloronaphthalene	ND	19	20	09/26/2018 21:13
2-Chlorophenol	ND	0.38	20	09/26/2018 21:13
4-Chlorophenyl Phenyl Ether	ND	19	20	09/26/2018 21:13
Chrysene	ND	0.19	20	09/26/2018 21:13
Dibenzo (a,h) anthracene	ND	0.19	20	09/26/2018 21:13
Dibenzofuran	ND	19	20	09/26/2018 21:13
Di-n-butyl Phthalate	ND	0.38	20	09/26/2018 21:13
1,2-Dichlorobenzene	ND	38	20	09/26/2018 21:13
1,3-Dichlorobenzene	ND	38	20	09/26/2018 21:13
1,4-Dichlorobenzene	ND	38	20	09/26/2018 21:13
3,3-Dichlorobenzidine	ND	0.38	20	09/26/2018 21:13
2,4-Dichlorophenol	ND	0.19	20	09/26/2018 21:13
Diethyl Phthalate	ND	0.38	20	09/26/2018 21:13
2,4-Dimethylphenol	ND	19	20	09/26/2018 21:13
Dimethyl Phthalate	ND	0.38	20	09/26/2018 21:13
4,6-Dinitro-2-methylphenol	ND	95	20	09/26/2018 21:13
2,4-Dinitrophenol	ND	9.5	20	09/26/2018 21:13
2,4-Dinitrotoluene	ND	0.48	20	09/26/2018 21:13

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001F	Water	09/19/2018 09:35	GC17 09261825.D	165166

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.19	20	09/26/2018 21:13
Di-n-octyl Phthalate	ND	2.4	20	09/26/2018 21:13
1,2-Diphenylhydrazine	ND	19	20	09/26/2018 21:13
Fluoranthene	ND	0.19	20	09/26/2018 21:13
Fluorene	ND	0.19	20	09/26/2018 21:13
Hexachlorobenzene	ND	0.095	20	09/26/2018 21:13
Hexachlorobutadiene	ND	0.19	20	09/26/2018 21:13
Hexachlorocyclopentadiene	ND	95	20	09/26/2018 21:13
Hexachloroethane	ND	0.19	20	09/26/2018 21:13
Indeno (1,2,3-cd) pyrene	ND	0.38	20	09/26/2018 21:13
Isophorone	ND	19	20	09/26/2018 21:13
2-Methylnaphthalene	ND	0.19	20	09/26/2018 21:13
2-Methylphenol (o-Cresol)	ND	19	20	09/26/2018 21:13
3 & 4-Methylphenol (m,p-Cresol)	ND	19	20	09/26/2018 21:13
Naphthalene	ND	0.19	20	09/26/2018 21:13
2-Nitroaniline	ND	95	20	09/26/2018 21:13
3-Nitroaniline	ND	95	20	09/26/2018 21:13
4-Nitroaniline	ND	95	20	09/26/2018 21:13
Nitrobenzene	ND	19	20	09/26/2018 21:13
2-Nitrophenol	ND	95	20	09/26/2018 21:13
4-Nitrophenol	ND	95	20	09/26/2018 21:13
N-Nitrosodiphenylamine	ND	19	20	09/26/2018 21:13
N-Nitrosodi-n-propylamine	ND	19	20	09/26/2018 21:13
Pentachlorophenol	ND	4.8	20	09/26/2018 21:13
Phenanthrene	ND	0.38	20	09/26/2018 21:13
Phenol	ND	0.38	20	09/26/2018 21:13
Pyrene	ND	0.38	20	09/26/2018 21:13
Pyridine	ND	19	20	09/26/2018 21:13
1,2,4-Trichlorobenzene	ND	19	20	09/26/2018 21:13
2,4,5-Trichlorophenol	ND	0.95	20	09/26/2018 21:13
2,4,6-Trichlorophenol	ND	0.95	20	09/26/2018 21:13
N-Nitrosodimethylamine	ND	95	20	09/26/2018 21:13

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001F	Water	09/19/2018 09:35	GC17 09261825.D	165166

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	43	23-101		09/26/2018 21:13
Phenol-d5	43	27-116		09/26/2018 21:13
Nitrobenzene-d5	66	29-116		09/26/2018 21:13
2-Fluorobiphenyl	68	29-112		09/26/2018 21:13
2,4,6-Tribromophenol	48	34-125		09/26/2018 21:13
Terphenyl-d14	75	23-136		09/26/2018 21:13

Analyst(s): REB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E350.1
Date Prepared:	9/21/18	**Analytical Method:**	E350.1
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Ammonia As Nitrogen

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001C	Water	09/19/2018 09:35	WC_SKALAR 092118A1_24	165350

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	**9.9**	0.10	1	09/21/2018 14:03

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	SM5210B
Date Prepared:	9/19/18	**Analytical Method:**	SM5210 B-2001
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001J	Water	09/19/2018 09:25	WetChem	165189

Analytes	Result	RL	DF	Date Analyzed
BOD	ND	4.0	1	09/24/2018 14:24

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	9/24/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001I	Water	09/19/2018 09:35	WC_SKALAR 092418A1_24	165431

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**39**	1.0	1	09/24/2018 12:45

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	SM5220 D-1997
Date Prepared:	9/24/18	**Analytical Method:**	SM5220 D-1997
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001K	Water	09/19/2018 09:25	SPECTROPHOTOMETER	165406

Analytes	Result	RL	DF	Date Analyzed
COD	**11**	10	1	09/24/2018 11:52

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E245.2
Date Prepared:	9/19/18	**Analytical Method:**	E245.2
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001H	Water	09/19/2018 09:25	AA1 _15	165200

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	09/20/2018 11:17

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E200.8
Date Prepared:	9/19/18	**Analytical Method:**	E200.8
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001N	Water	09/19/2018 09:25	ICP-MS2 171SMPL.D	165141

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Arsenic	**0.91**		0.50	1	09/21/2018 02:44
Cadmium	ND		0.25	1	09/21/2018 02:44
Chromium	ND		0.50	1	09/21/2018 02:44
Copper	**8.0**		2.0	1	09/21/2018 02:44
Iron	**200**	B	20	1	09/21/2018 02:44
Lead	ND		0.50	1	09/21/2018 02:44
Molybdenum	**92**		0.50	1	09/21/2018 02:44
Nickel	**1.9**		0.50	1	09/21/2018 02:44
Selenium	ND		0.50	1	09/21/2018 02:44
Silver	ND		0.19	1	09/21/2018 02:44
Zinc	**86**		15	1	09/21/2018 02:44

Surrogates	REC (%)	Limits	
Terbium	101	70-130	09/21/2018 02:44

Analyst(s): DB Analytical Comments: j1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	E420.4
Date Prepared:	9/26/18	**Analytical Method:**	E420.4
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001C	Water	09/19/2018 09:35	WC_SKALAR 092618A1_20	165588

Analytes	Result	RL	DF	Date Analyzed
Phenolics	**150**	4.0	2	09/26/2018 12:13

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	SM2540 C-1997
Date Prepared:	9/19/18	**Analytical Method:**	SM2540 C-1997
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001L	Water	09/19/2018 09:25	WetChem	165223

Analytes	Result	RL	DF	Date Analyzed
Total Dissolved Solids	**568**	10.0	1	09/20/2018 07:30

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Received:	9/19/18 13:45	**Extraction Method:**	SM2540 D-1997
Date Prepared:	9/21/18	**Analytical Method:**	SM2540 D-1997
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1809781-001M	Water	09/19/2018 09:25	WetChem	165352

Analytes	Result	RL	DF	Date Analyzed
Total Suspended Solids	**2.80**	1.00	1	09/21/2018 14:05

Analyst(s): AL

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165198
Date Analyzed:	9/20/18	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165198

QC Summary Report for E1664A

Analyte	MB Result	RL			
SGT-HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.68	9.32	10.42	93	89	64-132	3.80	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/26/18	**BatchID:**	165601
Date Analyzed:	9/26/18	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165601

QC Summary Report for E1664A

Analyte	MB Result	RL			
SGT-HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.57	9.26	10.42	92	89	64-132	3.24	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165164
Date Analyzed:	9/19/18	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165164

QC Summary Report for E1664A

Analyte	MB Result	RL			
HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18.9	18.4	20.83	91	88	78-114	2.53	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165425
Date Analyzed:	9/24/18	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165425

QC Summary Report for E1664A

Analyte	MB Result	RL			
HEM	ND	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	17.9	19.3	20.83	86	93	78-114	7.53	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
PCBs, total	ND	0.020	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0453			0.050	91	35-113

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0349	0.0338	0.050	70	68	50-103	3.16	20
a-BHC	0.0375	0.0364	0.050	75	73	63-131	2.97	20
b-BHC	0.0327	0.0314	0.050	65	63	56-112	4.24	20
d-BHC	0.0406	0.0400	0.050	81	80	63-132	1.36	20
g-BHC	0.0363	0.0353	0.050	73	71	61-135	2.66	20
a-Chlordane	0.0343	0.0333	0.050	69	67	54-113	2.91	20
g-Chlordane	0.0359	0.0347	0.050	72	69	55-117	3.31	20
p,p-DDD	0.0340	0.0336	0.050	68	67	56-135	1.22	20
p,p-DDE	0.0365	0.0360	0.050	73	72	56-131	1.43	20
p,p-DDT	0.0344	0.0341	0.050	69	68	47-153	0.865	20
Dieldrin	0.0405	0.0396	0.050	81	79	67-152	2.31	20
Endosulfan I	0.0355	0.0344	0.050	71	69	56-137	3.29	20
Endosulfan II	0.0346	0.0338	0.050	69	68	50-113	2.61	20
Endosulfan sulfate	0.0344	0.0336	0.050	69	67	57-121	2.18	20
Endrin	0.0386	0.0377	0.050	77	75	60-150	2.47	20
Endrin aldehyde	0.0308	0.0304	0.050	62	61	47-121	1.07	20
Endrin ketone	0.0334	0.0326	0.050	67	65	48-130	2.44	20
Heptachlor	0.0350	0.0337	0.050	70	67	46-133	3.60	20
Heptachlor epoxide	0.0336	0.0324	0.050	67	65	54-105	3.61	20
Methoxychlor	0.0398	0.0389	0.050	80	78	54-135	2.20	20
Aroclor1016	0.132	0.129	0.15	88	86	54-103	2.44	20
Aroclor1260	0.124	0.125	0.15	83	83	42-121	0	20
Surrogate Recovery								
Decachlorobiphenyl	0.0354	0.0346	0.050	71	69	35-113	2.23	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/20/18	**BatchID:**	165341
Date Analyzed:	9/20/18	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165341

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	5.0	-	-	-
Acrylonitrile	ND	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	1.0	-	-	-
Surrogate Recovery					
Dibromofluoromethane	31.1		25	124	83-139

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	17.0	18.0	20	85	90	70-130	5.69	20
Acrylonitrile	15.9	16.0	20	80	80	70-130	0	20
2-Chloroethyl Vinyl Ether	22.5	22.2	20	112	111	70-130	1.36	20
Surrogate Recovery								
Dibromofluoromethane	30.0	29.8	25	120	119	83-139	0.666	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.20	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	6.05	2.0	-	-	-
Styrene	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
Vinyl chloride	ND	0.50	-	-	-
m,p-Xylene	ND	0.25	-	-	-
o-Xylene	ND	0.25	-	-	-
Xylenes, Total	ND	0.25	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	25.0		25	100	83-139
Toluene-d8	23.7		25	95	87-125
4-BFB	2.11		2.5	84	74-133

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	9.16	9.35	10	92	93	37-151	2.00	20
Bromodichloromethane	8.12	8.43	10	81	84	35-155	3.65	20
Bromoform	7.56	8.05	10	76	80	45-169	6.33	20
Bromomethane	14.8	14.1	10	148	141	1-242	4.80	20
Carbon tetrachloride	8.54	8.86	10	85	89	70-140	3.70	20
Chlorobenzene	8.85	9.16	10	88	92	37-160	3.40	20
Chloroethane	10.0	9.82	10	100	98	14-230	1.76	20
Chloroform	8.83	9.04	10	88	90	51-138	2.33	20
Chloromethane	5.61	5.68	10	56	57	1-273	1.20	20
Dibromochloromethane	8.09	8.54	10	81	85	53-149	5.37	20
1,2-Dibromoethane (EDB)	8.08	8.55	10	81	86	62-127	5.73	20
1,2-Dichlorobenzene	8.99	9.40	10	90	94	18-190	4.50	20
1,3-Dichlorobenzene	8.55	8.88	10	85	89	59-156	3.84	20
1,4-Dichlorobenzene	8.55	8.88	10	85	89	18-190	3.84	20
1,1-Dichloroethane	8.99	9.29	10	90	93	70-130	3.26	20
1,2-Dichloroethane (1,2-DCA)	7.76	8.03	10	78	80	49-155	3.44	20
1,1-Dichloroethene	9.84	10.0	10	98	100	1-234	2.00	20
trans-1,2-Dichloroethene	9.62	9.82	10	96	98	54-156	2.09	20
1,2-Dichloropropane	8.77	9.03	10	88	90	1-210	2.94	20
cis-1,3-Dichloropropene	8.01	8.42	10	80	84	1-227	4.93	20
trans-1,3-Dichloropropene	8.19	8.70	10	82	87	17-183	6.01	20
Ethylbenzene	9.09	9.45	10	91	94	37-162	3.85	20
Methyl-t-butyl ether (MTBE)	7.58	7.90	10	76	79	70-130	4.21	20
Methylene chloride	8.74	9.12	10	87	91	1-221	4.27	20
Styrene	8.46	8.71	10	85	87	54-135	2.98	20
1,1,2,2-Tetrachloroethane	7.83	8.44	10	78	84	46-157	7.43	20
Tetrachloroethene	9.18	9.52	10	92	95	64-148	3.63	20
Toluene	8.32	8.73	10	83	87	47-150	4.76	20
1,2,4-Trichlorobenzene	9.16	9.49	10	92	95	57-139	3.48	20
1,1,1-Trichloroethane	8.56	8.86	10	86	89	52-162	3.34	20
1,1,2-Trichloroethane	8.14	8.68	10	81	87	52-150	6.41	20
Trichloroethene	9.44	9.55	10	94	96	71-157	1.13	20
Trichlorofluoromethane	8.62	8.85	10	86	89	17-181	2.73	20
Vinyl chloride	9.79	9.68	10	98	97	1-251	1.16	20
m,p-Xylene	17.7	18.2	20	89	91	56-131	2.72	20
o-Xylene	8.76	9.04	10	88	90	62-126	3.10	20
Xylenes, Total	26.5	27.2	30	88	91	59-128	2.84	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25.0	25.0	25	100	100	83-139	0	20
Toluene-d8	25.1	25.4	25	100	102	87-125	1.23	20
4-BFB	2.26	2.37	2.5	90	95	74-133	4.75	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.010	-	-	-
Acenaphthylene	ND	0.010	-	-	-
Anthracene	ND	0.010	-	-	-
Benzidine	ND	5.0	-	-	-
Benzo (a) anthracene	ND	0.020	-	-	-
Benzo (a) pyrene	ND	0.010	-	-	-
Benzo (b) fluoranthene	ND	0.0050	-	-	-
Benzo (g,h,i) perylene	ND	0.020	-	-	-
Benzo (k) fluoranthene	ND	0.010	-	-	-
Benzyl Alcohol	ND	5.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.010	-	-	-
Bis (2-ethylhexyl) Adipate	ND	3.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.040	-	-	-
4-Bromophenyl Phenyl Ether	ND	1.0	-	-	-
Butylbenzyl Phthalate	ND	2.0	-	-	-
4-Chloroaniline	ND	0.020	-	-	-
4-Chloro-3-methylphenol	ND	1.0	-	-	-
2-Chloronaphthalene	ND	1.0	-	-	-
2-Chlorophenol	ND	0.020	-	-	-
4-Chlorophenyl Phenyl Ether	ND	1.0	-	-	-
Chrysene	ND	0.010	-	-	-
Dibenzo (a,h) anthracene	ND	0.010	-	-	-
Dibenzofuran	ND	1.0	-	-	-
Di-n-butyl Phthalate	ND	0.020	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.020	-	-	-
2,4-Dichlorophenol	ND	0.010	-	-	-
Diethyl Phthalate	ND	0.020	-	-	-
2,4-Dimethylphenol	ND	1.0	-	-	-
Dimethyl Phthalate	ND	0.020	-	-	-
4,6-Dinitro-2-methylphenol	ND	5.0	-	-	-
2,4-Dinitrophenol	ND	0.50	-	-	-
2,4-Dinitrotoluene	ND	0.025	-	-	-
2,6-Dinitrotoluene	ND	0.010	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Di-n-octyl Phthalate	ND	0.12	-	-	-
1,2-Diphenylhydrazine	ND	1.0	-	-	-
Fluoranthene	ND	0.010	-	-	-
Fluorene	ND	0.010	-	-	-
Hexachlorobenzene	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.010	-	-	-
Hexachlorocyclopentadiene	ND	5.0	-	-	-
Hexachloroethane	ND	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.020	-	-	-
Isophorone	ND	1.0	-	-	-
2-Methylnaphthalene	ND	0.010	-	-	-
2-Methylphenol (o-Cresol)	ND	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	-	-	-
Naphthalene	ND	0.010	-	-	-
2-Nitroaniline	ND	5.0	-	-	-
3-Nitroaniline	ND	5.0	-	-	-
4-Nitroaniline	ND	5.0	-	-	-
Nitrobenzene	ND	1.0	-	-	-
2-Nitrophenol	ND	5.0	-	-	-
4-Nitrophenol	ND	5.0	-	-	-
N-Nitrosodiphenylamine	ND	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	1.0	-	-	-
Pentachlorophenol	ND	0.25	-	-	-
Phenanthrene	ND	0.020	-	-	-
Phenol	ND	0.020	-	-	-
Pyrene	ND	0.020	-	-	-
Pyridine	ND	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	1.0	-	-	-
2,4,5-Trichlorophenol	ND	0.050	-	-	-
2,4,6-Trichlorophenol	ND	0.050	-	-	-
N-Nitrosodimethylamine	ND	5.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	5.08		5	102	8-130
Phenol-d5	5.37		5	107	5-130
Nitrobenzene-d5	4.67		5	93	20-140
2-Fluorobiphenyl	4.58		5	92	40-140
2,4,6-Tribromophenol	5.51		5	110	16-180
Terphenyl-d14	4.34		5	87	40-170

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.217	0.220	0.25	87	88	47-145	1.14	25
Acenaphthylene	0.207	0.212	0.25	83	85	33-145	2.35	25
Anthracene	0.210	0.216	0.25	84	86	27-133	2.92	25
Benzidine	17.0	18.3	25	68	73	43-106	7.53	25
Benzo (a) anthracene	0.197	0.200	0.25	79	80	33-143	1.28	25
Benzo (a) pyrene	0.226	0.222	0.25	90	89	17-163	1.97	25
Benzo (b) fluoranthene	0.231	0.211	0.25	92	84	24-159	9.15	25
Benzo (g,h,i) perylene	0.215	0.213	0.25	86	85	1-219	1.01	25
Benzo (k) fluoranthene	0.207	0.200	0.25	83	80	11-162	3.10	25
Benzyl Alcohol	26.3	23.7	25	105	95	53-117	10.3	25
Bis (2-chloroethoxy) Methane	4.70	4.86	5	94	97	33-184	3.21	25
Bis (2-chloroethyl) Ether	0.254	0.297	0.25	102	119	12-158	15.5	25
Bis (2-chloroisopropyl) Ether	0.270	0.256	0.25	108	102	36-166	5.47	25
Bis (2-ethylhexyl) Adipate	4.08	4.29	5	82	86	55-122	4.99	25
Bis (2-ethylhexyl) Phthalate	0.236	0.241	0.25	95	96	8-158	2.01	25
4-Bromophenyl Phenyl Ether	4.11	4.27	5	82	85	53-127	3.75	25
Butylbenzyl Phthalate	4.99	4.73	5	100	95	1-152	5.38	25
4-Chloroaniline	0.233	0.234	0.25	93	94	63-120	0.618	25
4-Chloro-3-methylphenol	4.55	4.62	5	91	92	22-147	1.54	25
2-Chloronaphthalene	4.62	4.66	5	92	93	60-118	0.892	25
2-Chlorophenol	0.237	0.216	0.25	95	87	23-134	9.26	25
4-Chlorophenyl Phenyl Ether	4.26	4.14	5	85	83	25-158	2.94	25
Chrysene	0.203	0.201	0.25	81	81	17-168	0	25
Dibenzo (a,h) anthracene	0.211	0.210	0.25	84	84	1-227	0	25
Dibenzofuran	4.35	4.38	5	87	88	64-122	0.679	25
Di-n-butyl Phthalate	0.228	0.236	0.25	91	95	1-118	3.69	25
1,2-Dichlorobenzene	4.27	4.02	5	85	80	32-129	6.14	25
1,3-Dichlorobenzene	4.31	4.22	5	86	84	1-172	2.27	25
1,4-Dichlorobenzene	4.48	4.22	5	90	84	20-124	5.99	25
3,3-Dichlorobenzidine	0.217	0.226	0.25	87	90	1-262	3.89	25
2,4-Dichlorophenol	0.243	0.241	0.25	97	96	39-135	1.01	25
Diethyl Phthalate	0.227	0.228	0.25	91	91	1-114	0	25
2,4-Dimethylphenol	4.72	4.85	5	94	97	32-119	2.58	25
Dimethyl Phthalate	0.220	0.223	0.25	88	89	1-112	1.55	25
4,6-Dinitro-2-methylphenol	17.5	18.1	25	70	72	59-123	3.29	25
2,4-Dinitrophenol	0.904	0.891	1.25	72	71	1-191	1.43	25
2,4-Dinitrotoluene	0.197	0.208	0.25	79	83	39-139	5.49	25
2,6-Dinitrotoluene	0.193	0.198	0.25	77	79	50-158	2.65	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.256	0.249	0.25	103	99	4-146	3.11	25
1,2-Diphenylhydrazine	4.44	4.56	5	89	91	66-128	2.57	25
Fluoranthene	0.213	0.219	0.25	85	88	26-137	2.78	25
Fluorene	0.219	0.217	0.25	88	87	59-121	0.827	25
Hexachlorobenzene	0.199	0.207	0.25	79	83	1-152	4.37	25
Hexachlorobutadiene	0.224	0.222	0.25	89	89	24-116	0	25
Hexachlorocyclopentadiene	18.6	18.2	25	74	73	36-109	1.84	25
Hexachloroethane	0.213	0.199	0.25	85	80	40-113	6.69	25
Indeno (1,2,3-cd) pyrene	0.219	0.215	0.25	88	86	1-171	1.95	25
Isophorone	4.56	4.75	5	91	95	21-196	4.01	25
2-Methylnaphthalene	0.249	0.237	0.25	100	95	58-122	5.01	25
2-Methylphenol (o-Cresol)	5.55	5.07	5	111	101	55-121	9.14	25
3 & 4-Methylphenol (m,p-Cresol)	4.91	4.70	5	98	94	58-121	4.41	25
Naphthalene	0.215	0.214	0.25	86	86	21-133	0	25
2-Nitroaniline	23.1	23.7	25	92	95	65-124	2.60	25
3-Nitroaniline	22.1	22.2	25	88	89	67-125	0.295	25
4-Nitroaniline	23.0	22.7	25	92	91	65-124	1.01	25
Nitrobenzene	4.66	4.75	5	93	95	35-180	1.74	25
2-Nitrophenol	22.3	23.3	25	89	93	29-182	4.22	25
4-Nitrophenol	22.5	22.8	25	90	91	1-132	1.23	25
N-Nitrosodiphenylamine	4.15	4.30	5	83	86	67-132	3.56	25
N-Nitrosodi-n-propylamine	4.91	4.70	5	98	94	1-230	4.40	25
Pentachlorophenol	1.12	1.13	1.25	90	91	14-176	1.15	25
Phenanthrene	0.203	0.208	0.25	81	83	54-120	2.76	25
Phenol	0.234	0.221	0.25	93	89	5-112	5.34	25
Pyrene	0.202	0.202	0.25	81	81	52-115	0	25
Pyridine	3.56	3.06	5	71	61	60-140	15.2	25
1,2,4-Trichlorobenzene	4.46	4.53	5	89	91	44-142	1.65	25
2,4,5-Trichlorophenol	0.218	0.226	0.25	87	90	62-124	3.17	25
2,4,6-Trichlorophenol	0.234	0.232	0.25	93	93	37-144	0	25
N-Nitrosodimethylamine	22.6	21.4	25	91	86	45-111	5.63	25

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	5.14	4.81	5	103	96	29-140	6.60	25
Phenol-d5	5.67	5.34	5	113	107	38-148	5.94	25
Nitrobenzene-d5	5.20	5.24	5	104	105	31-152	0.775	25
2-Fluorobiphenyl	5.01	5.03	5	100	101	40-140	0.514	25
2,4,6-Tribromophenol	5.49	5.74	5	110	115	39-150	4.33	25
Terphenyl-d14	4.79	4.76	5	96	95	38-147	0.689	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/21/18	**BatchID:**	165350
Date Analyzed:	9/21/18	**Extraction Method:**	E350.1
Instrument:	WC_SKALAR	**Analytical Method:**	E350.1
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165350

QC Summary Report for E350.1

Analyte	MB Result	RL			
Ammonia, total as N	ND	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.03	4.10	4	101	103	88-113	1.73	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165189
Date Analyzed:	9/24/18	**Extraction Method:**	SM5210B
Instrument:	WetChem	**Analytical Method:**	SM5210 B-2001
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165189

QC Summary Report for BOD

Analyte	MB Result	RL			
BOD	ND	4.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	212	210	198	107	106	80-120	0.948	16

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165431
Date Analyzed:	9/24/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165431

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40.5	41.4	40	101	103	80-120	1.99	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/24/18	**BatchID:**	165406
Date Analyzed:	9/24/18	**Extraction Method:**	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM5220 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165406

QC Summary Report for COD

Analyte	MB Result	RL			
COD	ND	10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	99.0	99.0	100	99	99	90-110	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165200
Date Analyzed:	9/20/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165200

QC Summary Report for Mercury

Analyte	MB Result	RL			
Mercury	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.76	1.76	2	88	88	85-115	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/18/18	**BatchID:**	165141
Date Analyzed:	9/19/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165141

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Copper	ND	2.0	-	-	-
Iron	24.4	20	-	-	-
Lead	ND	0.50	-	-	-
Molybdenum	ND	0.50	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.19	-	-	-
Zinc	ND	15	-	-	-
Surrogate Recovery					
Terbium	758		750	101	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	50.4	49.5	50	101	99	85-115	1.92	20
Cadmium	51.7	51.5	50	103	103	85-115	0	20
Chromium	51.6	51.3	50	103	103	85-115	0	20
Copper	52.0	51.9	50	104	104	85-115	0	20
Iron	5160	5080	5000	103	102	85-115	1.50	20
Lead	50.1	49.8	50	100	100	85-115	0	20
Molybdenum	51.0	50.5	50	102	101	85-115	1.06	20
Nickel	52.5	51.5	50	105	103	85-115	1.96	20
Selenium	51.7	50.0	50	103	100	85-115	3.36	20
Silver	51.8	51.1	50	104	102	85-115	1.36	20
Zinc	517	515	500	103	103	85-115	0	20
Surrogate Recovery								
Terbium	759	758	750	101	101	70-130	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/26/18	**BatchID:**	165588
Date Analyzed:	9/26/18	**Extraction Method:**	E420.4
Instrument:	WC_SKALAR	**Analytical Method:**	E420.4
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165588 1809781-001CMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	RL			
Phenolics	ND	2.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	40.5	40.6	40	101	102	80-120	0.189	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	1	256	261	78.43	150	134,F1	138,F1	70-130	2.04	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/19/18	**BatchID:**	165223
Date Analyzed:	9/20/18	**Extraction Method:**	SM2540 C-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 C-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)		

QC Summary Report for Total Dissolved Solids

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1809764-001K	234	1	224	1	4.37	<10

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809781
Date Prepared:	9/21/18	**BatchID:**	165352
Date Analyzed:	9/21/18	**Extraction Method:**	SM2540 D-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Semi-Annually Sampling (September 2018)		

QC Summary Report for Total Suspended Solids

SampID	Sample Result	Sample DF	Dup / Serial Dilution Result	Dup / Serial Dilution DF	RPD	Acceptance Criteria (%)
1809781-001M	2.80	1	2.90	1	3.51	<10

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809781 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☑ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com; t1WY@
PO:
Project: Semi-Annually Sampling (September 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: **5 days; 7 days;**

Date Received: **09/19/2018**
Date Logged: **09/19/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1809781-001	E-001	Water	9/19/2018 09:35	☐	B											
1809781-001	E-001	Water	9/19/2018 09:25	☐								J		K	H	N
1809781-001	E-001	Water	9/19/2018 09:35	☐		A	G	D	E	F	C		I			
1809781-002	E-001	Water	9/18/2018 09:05	☐	A	B										

Test Legend:

1	1664A_SG_W	2	1664A_W	3	608_W [J]	4	624_W
5	624ACR+2CEVE_W	6	625_SCSM_W	7	AMMONIA_W	8	BOD_W
9	CN_SM4500CE_W	10	COD_W	11	HG_W	12	METALSMS_TTLC_W

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809781 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ▣ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
▣ Detection Summary ▣ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com; t1WY@
PO:
Project: Semi-Annually Sampling (September 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: **5 days; 7 days;**

Date Received: **09/19/2018**
Date Logged: **09/19/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					13	14	15	16	17	18	19	20	21	22	23	24
1809781-001	E-001	Water	9/18/2018 09:35	☐												
1809781-001	E-001	Water	9/19/2018 09:25	☐		L	M									
1809781-001	E-001	Water	9/19/2018 09:35	☐	C											
1809781-002	E-001	Water	9/18/2018 09:05	☐												

Test Legend:

13	PHENOLICS_W	14	TDS_W	15	TSS_W	16	
17		18		19		20	
21		22		23		24	

Prepared by: Kena Ponce

Comments:

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (September 2018) **Work Order:** 1809781
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 9/19/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809781-001A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	9/19/2018 9:35	5 days	Present	☐	
				2	1LA w/ HCl	☐			Present	☐	
1809781-001C	E-001	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	9/19/2018 9:35	5 days	Present	☐	
			E350.1 (Ammonia)			☐		5 days	Present	☐	
1809781-001D	E-001	Water	E624 (VOCs)	2	VOA w/ HCl	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001E	E-001	Water	E624 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001F	E-001	Water	E625 (SVOCs, Low-Level)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001G	E-001	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001H	E-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	9/19/2018 9:25	5 days	Present	☐	
1809781-001I	E-001	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	9/19/2018 9:35	5 days	Present	☐	
1809781-001J	E-001	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	9/19/2018 9:25	7 days	Present	☐	
1809781-001K	E-001	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	9/19/2018 9:25	5 days	Present	☐	
1809781-001L	E-001	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	9/19/2018 9:25	5 days	Present	☐	
1809781-001M	E-001	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	9/19/2018 9:25	5 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (September 2018) **Work Order:** 1809781
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 9/19/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809781-001N	E-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE, unprsv.	☐	9/19/2018 9:25	5 days	Present	☐	
1809781-002A	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	9/18/2018 9:05	5 days		☐	
1809781-002B	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	9/18/2018 9:05	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252 -9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (September 2018)

Project Location: Combined Site Flow

Sampler Signature: Mustang Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Cyanide (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	Metals (Arsenic and selenium) by 200.8 Selenium by reaction mode	Oil/Grease (USEPA 1664A) with and with out silica gel clean up	Total Phenolics (USEPA 420.4)	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	Ammonia as N (SM 4500-NH3-G)	Mercury (245.2)
E-001		G	9/18/18	09:05	2	1L Amb	X			X			X					X						
E-001		G	9/19/18	09:35	2	1L Amb	X			X			X					X						
E-001		G	9/19/18	09:35	1	500ml Amb	X			X	X								X				X	
E-001		G	09/19/18	09:35	2	43-ml VOA	X			X			X							X				
E-001		G	09/19/18	09:35	2	43-ml VOA	X		X	X										X				
E-001		G	09/19/18	09:35	1	1L Amb	X		X	X											X			
E-001		G	09/19/18	09:35	1	1L Amb	X		X	X												X		
E-001		C	09/19/18	09:25	1	250-ml Poly	X			X				X										X
E-001		G	09/19/18	09:35	1	250-ml Poly	X			X		X				X								

Relinquished By:	Date:	Time:	Received By:
	9/19/18	13:43	9/19/18 13:45
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.8
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

COMMENTS:

TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Telephone: (877) 252-9262 Fax : (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (September 2018)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling LLC

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other
E-001		C	9/19/18	09:25	1	1L poly	X		X	X					
E-001		C	09/19/18	09:25	2	43-ml VOA	X			X	X				
E-001		C	09/19/18	09:25	1	500-ml poly	X		X	X					
E-001		C	09/19/18	09:25	1	1L poly	X		X	X					
E-001		C	09/19/18	09:25	1	250-ml poly	X			X				X	

Cyanide (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	Metals (Arsenic and selenium) by 200.8 Selenium by reaction mode	Oil/Grease (USEPA 1664A)	Phenol (USEPA 420.4)	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	Ammonia (SM 4500-NH3-G)	Mercury (245.2)	Asbestos (USEPA 100.1 TEM)	BOD (SM 5210B)	COD (SM 5220D)	TDS (SM 2540C)	TSS (SM 2540D)	Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, Molybdenum, iron, and zinc)	Remarks
										X					
											X				
												X			
													X		
	X													X	

Relinquished By:	Date:	Time:	Received By:
	9/19/18	13:45	9/19/18 13:45
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.8

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**9/19/2018 13:45**
Project:	**Semi-Annually Sampling (September 2018)**	Date Logged:	**9/19/2018**
		Received by:	Tina Perez
WorkOrder №:	**1809781** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☐	No	☑	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 5.8°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA	☐
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA	☐
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments: Method E624 (ACRO, ACRY, & 2-CEVE) was received past its 3-day holding time. Method SM5210B (BOD) was received past its 2-day holding time. Method E1664A (SGT- HEM; Non-polar Material) was received with temperature condition not met. Method E1664A (HEM; Oil & Grease w/o S.G. Clean-Up) was received with temperature condition not met. Method E625 (SVOCs, Low-Level) was received past its 7-day holding time. Method SM2540C (TDS) was received past its 7-day holding time. Method SM2540D (TSS) was received past its 7-day holding time.

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"When Quality Counts"

Analytical Report

WorkOrder: 1809777

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Quarterly Sampling (September 2018)

Project Received: 09/19/2018

Analytical Report reviewed & approved for release on 09/26/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (September 2018)
WorkOrder: 1809777

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

j1	See attached narrative

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (September 2018)

Work Order: 1809777
September 26, 2018

Our standard ICP-MS analytical procedure is to analyze selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809777
Date Received:	9/19/18 13:45	**Extraction Method:**	E245.2
Date Prepared:	9/19/18	**Analytical Method:**	E245.2
Project:	Quarterly Sampling (September 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809777-001B	Water	09/19/2018 11:00	AA1 _12	165200

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	09/20/2018 11:08

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809777
Date Received:	9/19/18 13:45	**Extraction Method:**	E200.8
Date Prepared:	9/19/18	**Analytical Method:**	E200.8
Project:	Quarterly Sampling (September 2018)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809777-001A	Water	09/19/2018 11:00	ICP-MS1 116SMPL.D	165141

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**0.71**	0.50	1	09/21/2018 01:57
Cadmium	ND	0.25	1	09/21/2018 01:57
Chromium	ND	0.50	1	09/21/2018 01:57
Copper	**4.2**	2.0	1	09/21/2018 01:57
Lead	ND	0.50	1	09/21/2018 01:57
Nickel	**1.4**	0.50	1	09/21/2018 01:57
Selenium	ND	0.50	1	09/21/2018 01:57
Silver	ND	0.19	1	09/21/2018 01:57
Zinc	**63**	15	1	09/21/2018 01:57

Surrogates	REC (%)	Limits	
Terbium	103	70-130	09/21/2018 01:57

Analyst(s): ND Analytical Comments: j1

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809777
Date Prepared:	9/19/18	**BatchID:**	165200
Date Analyzed:	9/20/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165200 1809777-001BMS/MSD

QC Summary Report for Mercury

Analyte	MB Result	RL			
Mercury	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.76	1.76	2	88	88	85-115	0	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1	1.80	1.74	2	ND	90	87	80-120	3.30	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809777
Date Prepared:	9/18/18	**BatchID:**	165141
Date Analyzed:	9/19/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165141

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Copper	ND	2.0	-	-	-
Lead	ND	0.50	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.19	-	-	-
Zinc	ND	15	-	-	-
Surrogate Recovery					
Terbium	758		750	101	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	50.4	49.5	50	101	99	85-115	1.92	20
Cadmium	51.7	51.5	50	103	103	85-115	0	20
Chromium	51.6	51.3	50	103	103	85-115	0	20
Copper	52.0	51.9	50	104	104	85-115	0	20
Lead	50.1	49.8	50	100	100	85-115	0	20
Nickel	52.5	51.5	50	105	103	85-115	1.96	20
Selenium	51.7	50.0	50	103	100	85-115	3.36	20
Silver	51.8	51.1	50	104	102	85-115	1.36	20
Zinc	517	515	500	103	103	85-115	0	20
Surrogate Recovery								
Terbium	759	758	750	101	101	70-130	0	20

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809777 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com;
PO:
Project: Quarterly Sampling (September 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **5 days;**

Date Received: **09/19/2018**
Date Logged: **09/19/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1809777-001	I-001	Water	9/19/2018 11:00	☐	B	A										

Test Legend:

1	HG_W	2	METALSMS_TTLC_W	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Quarterly Sampling (September 2018) **Work Order:** 1809777
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 9/19/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809777-001A	I-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	9/19/2018 11:00	5 days	None	☐	
1809777-001B	I-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	9/19/2018 11:00	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1809777

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510)-861-1597 (Cell) Fax: ( )

Project Name: Quarterly Sampling (September 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Muskan Environmental Sampling LLC

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, and zinc)	Analysis Request: Metals (Arsenic and selenium) 200.8 Selenium by reaction mode	Analysis Request: Mercury (245.2)	Remarks
I-001		C	9/19/18	11:00	1	250-ml poly	X			X				X		X	X		
I-001		C	9/19/18	11:00	1	250-ml poly	X			X				X				X	

Relinquished By:	Date: 9/19/18	Time: 13:45	Received By: 9/19/18 13:45
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.7

COMMENTS:

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**9/19/2018 13:45**
Project:	**Quarterly Sampling (September 2018)**	Date Logged:	**9/19/2018**
		Received by:	Kena Ponce
WorkOrder №:	**1809777** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 5.7°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA ☐
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1809780

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Semi-Annually Sampling (September 2018)

Project Received: 09/19/2018

Analytical Report reviewed & approved for release on 10/08/2018 by:

Yen Cao
Project Manager

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (September 2018)
WorkOrder: 1809780

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E1613B
Date Prepared:	9/26/18	**Analytical Method:**	E1613B
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	pg/L

2,3,7,8-TCDD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001H	Water	09/19/2018 11:10	GC36	165597

Analytes	TEF WHO '05	Result	RL	DF	Ion Ratio	RRT	TEQ	Date Analyzed
2,3,7,8-TCDD		ND	4.83	1				09/27/2018 13:57
						Total TEQ:	0	

Cleanup Standard	REC (%)	Limits	
37Cl-2,3,7,8-TCDD	92	42-164	09/27/2018 13:57
Labeled Compound Recovery	**REC (%)**	**Limits**	
13C-2,3,7,8-TCDD	97	31-137	09/27/2018 13:57

Analyst(s): KBO

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E608/SW3620B
Date Prepared:	9/19/18	**Analytical Method:**	E608
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001E	Water	09/19/2018 11:10	GC22 09211811.D	165139

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.00028	0.0010	1	09/21/2018 15:03
a-BHC	ND	0.00031	0.0010	1	09/21/2018 15:03
b-BHC	ND	0.00069	0.0010	1	09/21/2018 15:03
d-BHC	ND	0.00014	0.0010	1	09/21/2018 15:03
g-BHC	ND	0.00045	0.0010	1	09/21/2018 15:03
Chlordane (Technical)	ND	0.0023	0.020	1	09/21/2018 15:03
a-Chlordane	ND	0.00085	0.0010	1	09/21/2018 15:03
g-Chlordane	ND	0.00015	0.0010	1	09/21/2018 15:03
p,p-DDD	ND	0.00011	0.0010	1	09/21/2018 15:03
p,p-DDE	ND	0.00018	0.0010	1	09/21/2018 15:03
p,p-DDT	ND	0.00017	0.0010	1	09/21/2018 15:03
Dieldrin	ND	0.00014	0.0010	1	09/21/2018 15:03
Endosulfan I	ND	0.00011	0.0010	1	09/21/2018 15:03
Endosulfan II	ND	0.00046	0.0010	1	09/21/2018 15:03
Endosulfan sulfate	ND	0.00033	0.0020	1	09/21/2018 15:03
Endrin	ND	0.00018	0.0010	1	09/21/2018 15:03
Endrin aldehyde	ND	0.00053	0.0010	1	09/21/2018 15:03
Endrin ketone	ND	0.00026	0.0010	1	09/21/2018 15:03
Heptachlor	ND	0.00041	0.0010	1	09/21/2018 15:03
Heptachlor epoxide	ND	0.00025	0.0010	1	09/21/2018 15:03
Methoxychlor	ND	0.00012	0.0010	1	09/21/2018 15:03
Toxaphene	ND	0.0020	0.020	1	09/21/2018 15:03
Aroclor1016	ND	0.0019	0.020	1	09/21/2018 15:03
Aroclor1221	ND	0.0024	0.020	1	09/21/2018 15:03
Aroclor1232	ND	0.0038	0.020	1	09/21/2018 15:03
Aroclor1242	ND	0.0028	0.020	1	09/21/2018 15:03
Aroclor1248	ND	0.0018	0.020	1	09/21/2018 15:03
Aroclor1254	ND	0.0015	0.020	1	09/21/2018 15:03
Aroclor1260	ND	0.0028	0.020	1	09/21/2018 15:03
PCBs, total	ND	0.020	0.020	1	09/21/2018 15:03

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	97	14-168	09/21/2018 15:03

Analyst(s): CK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/20/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001C	Water	09/19/2018 11:10	GC28 09201815.D	165341

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	09/20/2018 19:05
Acrylonitrile	ND	2.0	1	09/20/2018 19:05
2-Chloroethyl Vinyl Ether	ND	1.0	1	09/20/2018 19:05

Surrogates	REC (%)	Limits	
Dibromofluoromethane	115	78-141	09/20/2018 19:05

Analyst(s): JEM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001B	Water	09/19/2018 11:10	GC10 09241810.D	165451

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/24/2018 13:31
Bromodichloromethane	**1.5**	0.50	1	09/24/2018 13:31
Bromoform	ND	0.50	1	09/24/2018 13:31
Bromomethane	ND	0.50	1	09/24/2018 13:31
Carbon tetrachloride	ND	0.50	1	09/24/2018 13:31
Chlorobenzene	ND	0.50	1	09/24/2018 13:31
Chloroethane	ND	0.50	1	09/24/2018 13:31
Chloroform	**1.2**	0.50	1	09/24/2018 13:31
Chloromethane	ND	0.50	1	09/24/2018 13:31
Dibromochloromethane	ND	0.50	1	09/24/2018 13:31
1,2-Dibromoethane (EDB)	ND	0.50	1	09/24/2018 13:31
1,2-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,3-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,4-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,1-Dichloroethane	ND	0.50	1	09/24/2018 13:31
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	09/24/2018 13:31
1,1-Dichloroethene	ND	0.50	1	09/24/2018 13:31
trans-1,2-Dichloroethene	ND	0.50	1	09/24/2018 13:31
1,2-Dichloropropane	ND	0.50	1	09/24/2018 13:31
cis-1,3-Dichloropropene	ND	0.50	1	09/24/2018 13:31
trans-1,3-Dichloropropene	ND	0.50	1	09/24/2018 13:31
Ethylbenzene	ND	0.50	1	09/24/2018 13:31
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/24/2018 13:31
Methylene chloride	ND	2.0	1	09/24/2018 13:31
1,1,2,2-Tetrachloroethane	ND	0.50	1	09/24/2018 13:31
Tetrachloroethene	ND	0.50	1	09/24/2018 13:31
Toluene	ND	0.50	1	09/24/2018 13:31
1,2,4-Trichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,1,1-Trichloroethane	ND	0.50	1	09/24/2018 13:31
1,1,2-Trichloroethane	ND	0.50	1	09/24/2018 13:31
Trichloroethene	ND	0.50	1	09/24/2018 13:31
Trichlorofluoromethane	ND	0.50	1	09/24/2018 13:31
Vinyl chloride	ND	0.50	1	09/24/2018 13:31
m,p-Xylene	ND	0.50	1	09/24/2018 13:31
o-Xylene	ND	0.25	1	09/24/2018 13:31
Xylenes, Total	ND	0.25	1	09/24/2018 13:31

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001B	Water	09/19/2018 11:10	GC10 09241810.D	165451

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	104	78-141		09/24/2018 13:31
Toluene-d8	93	78-129		09/24/2018 13:31
4-BFB	86	61-140		09/24/2018 13:31

Analyst(s): TK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.19	20	09/26/2018 20:45
Acenaphthylene	ND	0.19	20	09/26/2018 20:45
Anthracene	ND	0.19	20	09/26/2018 20:45
Benzidine	ND	96	20	09/26/2018 20:45
Benzo (a) anthracene	ND	0.38	20	09/26/2018 20:45
Benzo (a) pyrene	ND	0.19	20	09/26/2018 20:45
Benzo (b) fluoranthene	ND	0.096	20	09/26/2018 20:45
Benzo (g,h,i) perylene	ND	0.38	20	09/26/2018 20:45
Benzo (k) fluoranthene	ND	0.19	20	09/26/2018 20:45
Benzyl Alcohol	ND	96	20	09/26/2018 20:45
Bis (2-chloroethoxy) Methane	ND	19	20	09/26/2018 20:45
Bis (2-chloroethyl) Ether	ND	0.096	20	09/26/2018 20:45
Bis (2-chloroisopropyl) Ether	ND	0.19	20	09/26/2018 20:45
Bis (2-ethylhexyl) Adipate	ND	57	20	09/26/2018 20:45
Bis (2-ethylhexyl) Phthalate	**6.9**	0.76	20	09/26/2018 20:45
4-Bromophenyl Phenyl Ether	ND	19	20	09/26/2018 20:45
Butylbenzyl Phthalate	ND	38	20	09/26/2018 20:45
4-Chloroaniline	ND	0.38	20	09/26/2018 20:45
4-Chloro-3-methylphenol	ND	19	20	09/26/2018 20:45
2-Chloronaphthalene	ND	19	20	09/26/2018 20:45
2-Chlorophenol	ND	0.38	20	09/26/2018 20:45
4-Chlorophenyl Phenyl Ether	ND	19	20	09/26/2018 20:45
Chrysene	ND	0.19	20	09/26/2018 20:45
Dibenzo (a,h) anthracene	ND	0.19	20	09/26/2018 20:45
Dibenzofuran	ND	19	20	09/26/2018 20:45
Di-n-butyl Phthalate	ND	0.38	20	09/26/2018 20:45
1,2-Dichlorobenzene	ND	38	20	09/26/2018 20:45
1,3-Dichlorobenzene	ND	38	20	09/26/2018 20:45
1,4-Dichlorobenzene	ND	38	20	09/26/2018 20:45
3,3-Dichlorobenzidine	ND	0.38	20	09/26/2018 20:45
2,4-Dichlorophenol	ND	0.19	20	09/26/2018 20:45
Diethyl Phthalate	ND	0.38	20	09/26/2018 20:45
2,4-Dimethylphenol	ND	19	20	09/26/2018 20:45
Dimethyl Phthalate	ND	0.38	20	09/26/2018 20:45
4,6-Dinitro-2-methylphenol	ND	96	20	09/26/2018 20:45
2,4-Dinitrophenol	ND	9.6	20	09/26/2018 20:45
2,4-Dinitrotoluene	ND	0.48	20	09/26/2018 20:45

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.19	20	09/26/2018 20:45
Di-n-octyl Phthalate	ND	2.4	20	09/26/2018 20:45
1,2-Diphenylhydrazine	ND	19	20	09/26/2018 20:45
Fluoranthene	ND	0.19	20	09/26/2018 20:45
Fluorene	ND	0.19	20	09/26/2018 20:45
Hexachlorobenzene	ND	0.096	20	09/26/2018 20:45
Hexachlorobutadiene	ND	0.19	20	09/26/2018 20:45
Hexachlorocyclopentadiene	ND	96	20	09/26/2018 20:45
Hexachloroethane	ND	0.19	20	09/26/2018 20:45
Indeno (1,2,3-cd) pyrene	ND	0.38	20	09/26/2018 20:45
Isophorone	ND	19	20	09/26/2018 20:45
2-Methylnaphthalene	ND	0.19	20	09/26/2018 20:45
2-Methylphenol (o-Cresol)	ND	19	20	09/26/2018 20:45
3 & 4-Methylphenol (m,p-Cresol)	ND	19	20	09/26/2018 20:45
Naphthalene	ND	0.19	20	09/26/2018 20:45
2-Nitroaniline	ND	96	20	09/26/2018 20:45
3-Nitroaniline	ND	96	20	09/26/2018 20:45
4-Nitroaniline	ND	96	20	09/26/2018 20:45
Nitrobenzene	ND	19	20	09/26/2018 20:45
2-Nitrophenol	ND	96	20	09/26/2018 20:45
4-Nitrophenol	ND	96	20	09/26/2018 20:45
N-Nitrosodiphenylamine	ND	19	20	09/26/2018 20:45
N-Nitrosodi-n-propylamine	ND	19	20	09/26/2018 20:45
Pentachlorophenol	ND	4.8	20	09/26/2018 20:45
Phenanthrene	ND	0.38	20	09/26/2018 20:45
Phenol	**0.44**	0.38	20	09/26/2018 20:45
Pyrene	ND	0.38	20	09/26/2018 20:45
Pyridine	ND	19	20	09/26/2018 20:45
1,2,4-Trichlorobenzene	ND	19	20	09/26/2018 20:45
2,4,5-Trichlorophenol	ND	0.96	20	09/26/2018 20:45
2,4,6-Trichlorophenol	ND	0.96	20	09/26/2018 20:45
N-Nitrosodimethylamine	ND	96	20	09/26/2018 20:45

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	38	23-101		09/26/2018 20:45
Phenol-d5	40	27-116		09/26/2018 20:45
Nitrobenzene-d5	44	29-116		09/26/2018 20:45
2-Fluorobiphenyl	61	29-112		09/26/2018 20:45
2,4,6-Tribromophenol	70	34-125		09/26/2018 20:45
Terphenyl-d14	88	23-136		09/26/2018 20:45

Analyst(s): REB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	9/24/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001A	Water	09/19/2018 11:10	WC_SKALAR 092418A1_25	165431

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	47	1.0	1	09/24/2018 12:48

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E245.2
Date Prepared:	9/19/18	**Analytical Method:**	E245.2
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001F	Water	09/19/2018 11:10	AA1 _16	165200

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	09/20/2018 11:20

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E200.8
Date Prepared:	9/19/18	**Analytical Method:**	E200.8
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Priority Pollutant Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001F	Water	09/19/2018 11:10	ICP-MS1 124SMPL.D	165141

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	09/21/2018 02:46
Arsenic	**0.91**	0.50	1	09/21/2018 02:46
Beryllium	ND	0.50	1	09/21/2018 02:46
Cadmium	ND	0.25	1	09/21/2018 02:46
Chromium	ND	0.50	1	09/21/2018 02:46
Copper	**4.3**	2.0	1	09/21/2018 02:46
Lead	ND	0.50	1	09/21/2018 02:46
Mercury	ND	0.050	1	09/21/2018 02:46
Nickel	**1.5**	0.50	1	09/21/2018 02:46
Selenium	ND	0.50	1	09/21/2018 02:46
Silver	ND	0.19	1	09/21/2018 02:46
Thallium	ND	0.50	1	09/21/2018 02:46
Zinc	**61**	15	1	09/21/2018 02:46

Surrogates	REC (%)	Limits	
Terbium	101	70-130	09/21/2018 02:46

Analyst(s): ND

CLIENT: PG&E Gateway Generating Station
Work Order: 1809780
Project: Semi-Annually Sampling (September 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 165597

SampleID **MB-165597**	TestCode: **1613_FULL_W**	Units: **pg/L**	Prep Date: **9/26/2018**
Batch ID: **165597**	TestNo: **E1613B**	Run ID: **GC36_180928A**	Analysis Date: **9/27/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	ND	5.00				-				
Cleanup Standard										
37Cl-2,3,7,8-TCDD	96.6		100		97	35 - 197				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	939		1000		94	25 - 164				

CLIENT: PG&E Gateway Generating Station
Work Order: 1809780
Project: Semi-Annually Sampling (September 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 165597

SampleID **LCS-165597**	TestCode: **1613_TCDD_W**	Units: **pg/L**	Prep Date: **9/26/2018**
Batch ID: **165597**	TestNo: **E1613B**	Run ID: **GC36_180928A**	Analysis Date: **9/27/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	96.2	5.00	100		96	73 - 146				
Cleanup Standard										
37Cl-2,3,7,8-TCDD	95.0		100		95	37 - 158				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	950		1000		95	25 - 141				

CLIENT: PG&E Gateway Generating Station
Work Order: 1809780
Project: Semi-Annually Sampling (September 2018)

ANALYTICAL QC SUMMARY REPORT

BatchID: 165597

SampleID **LCSD-165597**	TestCode: **1613_TCDD_W**	Units: **pg/L**	Prep Date: **9/26/2018**
Batch ID: **165597**	TestNo: **E1613B**	Run ID: **GC36_180928A**	Analysis Date: **9/27/2018**

Analyte	Result	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
2,3,7,8-TCDD	103	5.00	100		103	73 - 146	96.2	7.02	20	
Cleanup Standard										
37Cl-2,3,7,8-TCDD	95.0		100		95	37 - 158				
Labeled Compound Recovery										
13C-2,3,7,8-TCDD	958		1000		96	25 - 141				

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
PCBs, total	ND	0.020	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0453			0.050	91	35-113

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0349	0.0338	0.050	70	68	50-103	3.16	20
a-BHC	0.0375	0.0364	0.050	75	73	63-131	2.97	20
b-BHC	0.0327	0.0314	0.050	65	63	56-112	4.24	20
d-BHC	0.0406	0.0400	0.050	81	80	63-132	1.36	20
g-BHC	0.0363	0.0353	0.050	73	71	61-135	2.66	20
a-Chlordane	0.0343	0.0333	0.050	69	67	54-113	2.91	20
g-Chlordane	0.0359	0.0347	0.050	72	69	55-117	3.31	20
p,p-DDD	0.0340	0.0336	0.050	68	67	56-135	1.22	20
p,p-DDE	0.0365	0.0360	0.050	73	72	56-131	1.43	20
p,p-DDT	0.0344	0.0341	0.050	69	68	47-153	0.865	20
Dieldrin	0.0405	0.0396	0.050	81	79	67-152	2.31	20
Endosulfan I	0.0355	0.0344	0.050	71	69	56-137	3.29	20
Endosulfan II	0.0346	0.0338	0.050	69	68	50-113	2.61	20
Endosulfan sulfate	0.0344	0.0336	0.050	69	67	57-121	2.18	20
Endrin	0.0386	0.0377	0.050	77	75	60-150	2.47	20
Endrin aldehyde	0.0308	0.0304	0.050	62	61	47-121	1.07	20
Endrin ketone	0.0334	0.0326	0.050	67	65	48-130	2.44	20
Heptachlor	0.0350	0.0337	0.050	70	67	46-133	3.60	20
Heptachlor epoxide	0.0336	0.0324	0.050	67	65	54-105	3.61	20
Methoxychlor	0.0398	0.0389	0.050	80	78	54-135	2.20	20
Aroclor1016	0.132	0.129	0.15	88	86	54-103	2.44	20
Aroclor1260	0.124	0.125	0.15	83	83	42-121	0	20
Surrogate Recovery								
Decachlorobiphenyl	0.0354	0.0346	0.050	71	69	35-113	2.23	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/20/18	**BatchID:**	165341
Date Analyzed:	9/20/18	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165341

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	5.0	-	-	-
Acrylonitrile	ND	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	1.0	-	-	-
Surrogate Recovery					
Dibromofluoromethane	31.1		25	124	83-139

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	17.0	18.0	20	85	90	70-130	5.69	20
Acrylonitrile	15.9	16.0	20	80	80	70-130	0	20
2-Chloroethyl Vinyl Ether	22.5	22.2	20	112	111	70-130	1.36	20
Surrogate Recovery								
Dibromofluoromethane	30.0	29.8	25	120	119	83-139	0.666	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.20	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	6.05	2.0	-	-	-
Styrene	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
Vinyl chloride	ND	0.50	-	-	-
m,p-Xylene	ND	0.25	-	-	-
o-Xylene	ND	0.25	-	-	-
Xylenes, Total	ND	0.25	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	25.0		25	100	83-139
Toluene-d8	23.7		25	95	87-125
4-BFB	2.11		2.5	84	74-133

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	9.16	9.35	10	92	93	37-151	2.00	20
Bromodichloromethane	8.12	8.43	10	81	84	35-155	3.65	20
Bromoform	7.56	8.05	10	76	80	45-169	6.33	20
Bromomethane	14.8	14.1	10	148	141	1-242	4.80	20
Carbon tetrachloride	8.54	8.86	10	85	89	70-140	3.70	20
Chlorobenzene	8.85	9.16	10	88	92	37-160	3.40	20
Chloroethane	10.0	9.82	10	100	98	14-230	1.76	20
Chloroform	8.83	9.04	10	88	90	51-138	2.33	20
Chloromethane	5.61	5.68	10	56	57	1-273	1.20	20
Dibromochloromethane	8.09	8.54	10	81	85	53-149	5.37	20
1,2-Dibromoethane (EDB)	8.08	8.55	10	81	86	62-127	5.73	20
1,2-Dichlorobenzene	8.99	9.40	10	90	94	18-190	4.50	20
1,3-Dichlorobenzene	8.55	8.88	10	85	89	59-156	3.84	20
1,4-Dichlorobenzene	8.55	8.88	10	85	89	18-190	3.84	20
1,1-Dichloroethane	8.99	9.29	10	90	93	70-130	3.26	20
1,2-Dichloroethane (1,2-DCA)	7.76	8.03	10	78	80	49-155	3.44	20
1,1-Dichloroethene	9.84	10.0	10	98	100	1-234	2.00	20
trans-1,2-Dichloroethene	9.62	9.82	10	96	98	54-156	2.09	20
1,2-Dichloropropane	8.77	9.03	10	88	90	1-210	2.94	20
cis-1,3-Dichloropropene	8.01	8.42	10	80	84	1-227	4.93	20
trans-1,3-Dichloropropene	8.19	8.70	10	82	87	17-183	6.01	20
Ethylbenzene	9.09	9.45	10	91	94	37-162	3.85	20
Methyl-t-butyl ether (MTBE)	7.58	7.90	10	76	79	70-130	4.21	20
Methylene chloride	8.74	9.12	10	87	91	1-221	4.27	20
Styrene	8.46	8.71	10	85	87	54-135	2.98	20
1,1,2,2-Tetrachloroethane	7.83	8.44	10	78	84	46-157	7.43	20
Tetrachloroethene	9.18	9.52	10	92	95	64-148	3.63	20
Toluene	8.32	8.73	10	83	87	47-150	4.76	20
1,2,4-Trichlorobenzene	9.16	9.49	10	92	95	57-139	3.48	20
1,1,1-Trichloroethane	8.56	8.86	10	86	89	52-162	3.34	20
1,1,2-Trichloroethane	8.14	8.68	10	81	87	52-150	6.41	20
Trichloroethene	9.44	9.55	10	94	96	71-157	1.13	20
Trichlorofluoromethane	8.62	8.85	10	86	89	17-181	2.73	20
Vinyl chloride	9.79	9.68	10	98	97	1-251	1.16	20
m,p-Xylene	17.7	18.2	20	89	91	56-131	2.72	20
o-Xylene	8.76	9.04	10	88	90	62-126	3.10	20
Xylenes, Total	26.5	27.2	30	88	91	59-128	2.84	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25.0	25.0	25	100	100	83-139	0	20
Toluene-d8	25.1	25.4	25	100	102	87-125	1.23	20
4-BFB	2.26	2.37	2.5	90	95	74-133	4.75	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.010	-	-	-
Acenaphthylene	ND	0.010	-	-	-
Anthracene	ND	0.010	-	-	-
Benzidine	ND	5.0	-	-	-
Benzo (a) anthracene	ND	0.020	-	-	-
Benzo (a) pyrene	ND	0.010	-	-	-
Benzo (b) fluoranthene	ND	0.0050	-	-	-
Benzo (g,h,i) perylene	ND	0.020	-	-	-
Benzo (k) fluoranthene	ND	0.010	-	-	-
Benzyl Alcohol	ND	5.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.010	-	-	-
Bis (2-ethylhexyl) Adipate	ND	3.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.040	-	-	-
4-Bromophenyl Phenyl Ether	ND	1.0	-	-	-
Butylbenzyl Phthalate	ND	2.0	-	-	-
4-Chloroaniline	ND	0.020	-	-	-
4-Chloro-3-methylphenol	ND	1.0	-	-	-
2-Chloronaphthalene	ND	1.0	-	-	-
2-Chlorophenol	ND	0.020	-	-	-
4-Chlorophenyl Phenyl Ether	ND	1.0	-	-	-
Chrysene	ND	0.010	-	-	-
Dibenzo (a,h) anthracene	ND	0.010	-	-	-
Dibenzofuran	ND	1.0	-	-	-
Di-n-butyl Phthalate	ND	0.020	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.020	-	-	-
2,4-Dichlorophenol	ND	0.010	-	-	-
Diethyl Phthalate	ND	0.020	-	-	-
2,4-Dimethylphenol	ND	1.0	-	-	-
Dimethyl Phthalate	ND	0.020	-	-	-
4,6-Dinitro-2-methylphenol	ND	5.0	-	-	-
2,4-Dinitrophenol	ND	0.50	-	-	-
2,4-Dinitrotoluene	ND	0.025	-	-	-
2,6-Dinitrotoluene	ND	0.010	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Di-n-octyl Phthalate	ND	0.12	-	-	-
1,2-Diphenylhydrazine	ND	1.0	-	-	-
Fluoranthene	ND	0.010	-	-	-
Fluorene	ND	0.010	-	-	-
Hexachlorobenzene	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.010	-	-	-
Hexachlorocyclopentadiene	ND	5.0	-	-	-
Hexachloroethane	ND	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.020	-	-	-
Isophorone	ND	1.0	-	-	-
2-Methylnaphthalene	ND	0.010	-	-	-
2-Methylphenol (o-Cresol)	ND	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	-	-	-
Naphthalene	ND	0.010	-	-	-
2-Nitroaniline	ND	5.0	-	-	-
3-Nitroaniline	ND	5.0	-	-	-
4-Nitroaniline	ND	5.0	-	-	-
Nitrobenzene	ND	1.0	-	-	-
2-Nitrophenol	ND	5.0	-	-	-
4-Nitrophenol	ND	5.0	-	-	-
N-Nitrosodiphenylamine	ND	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	1.0	-	-	-
Pentachlorophenol	ND	0.25	-	-	-
Phenanthrene	ND	0.020	-	-	-
Phenol	ND	0.020	-	-	-
Pyrene	ND	0.020	-	-	-
Pyridine	ND	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	1.0	-	-	-
2,4,5-Trichlorophenol	ND	0.050	-	-	-
2,4,6-Trichlorophenol	ND	0.050	-	-	-
N-Nitrosodimethylamine	ND	5.0	-	-	-

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	5.08		5	102	8-130
Phenol-d5	5.37		5	107	5-130
Nitrobenzene-d5	4.67		5	93	20-140
2-Fluorobiphenyl	4.58		5	92	40-140
2,4,6-Tribromophenol	5.51		5	110	16-180
Terphenyl-d14	4.34		5	87	40-170

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.217	0.220	0.25	87	88	47-145	1.14	25
Acenaphthylene	0.207	0.212	0.25	83	85	33-145	2.35	25
Anthracene	0.210	0.216	0.25	84	86	27-133	2.92	25
Benzidine	17.0	18.3	25	68	73	43-106	7.53	25
Benzo (a) anthracene	0.197	0.200	0.25	79	80	33-143	1.28	25
Benzo (a) pyrene	0.226	0.222	0.25	90	89	17-163	1.97	25
Benzo (b) fluoranthene	0.231	0.211	0.25	92	84	24-159	9.15	25
Benzo (g,h,i) perylene	0.215	0.213	0.25	86	85	1-219	1.01	25
Benzo (k) fluoranthene	0.207	0.200	0.25	83	80	11-162	3.10	25
Benzyl Alcohol	26.3	23.7	25	105	95	53-117	10.3	25
Bis (2-chloroethoxy) Methane	4.70	4.86	5	94	97	33-184	3.21	25
Bis (2-chloroethyl) Ether	0.254	0.297	0.25	102	119	12-158	15.5	25
Bis (2-chloroisopropyl) Ether	0.270	0.256	0.25	108	102	36-166	5.47	25
Bis (2-ethylhexyl) Adipate	4.08	4.29	5	82	86	55-122	4.99	25
Bis (2-ethylhexyl) Phthalate	0.236	0.241	0.25	95	96	8-158	2.01	25
4-Bromophenyl Phenyl Ether	4.11	4.27	5	82	85	53-127	3.75	25
Butylbenzyl Phthalate	4.99	4.73	5	100	95	1-152	5.38	25
4-Chloroaniline	0.233	0.234	0.25	93	94	63-120	0.618	25
4-Chloro-3-methylphenol	4.55	4.62	5	91	92	22-147	1.54	25
2-Chloronaphthalene	4.62	4.66	5	92	93	60-118	0.892	25
2-Chlorophenol	0.237	0.216	0.25	95	87	23-134	9.26	25
4-Chlorophenyl Phenyl Ether	4.26	4.14	5	85	83	25-158	2.94	25
Chrysene	0.203	0.201	0.25	81	81	17-168	0	25
Dibenzo (a,h) anthracene	0.211	0.210	0.25	84	84	1-227	0	25
Dibenzofuran	4.35	4.38	5	87	88	64-122	0.679	25
Di-n-butyl Phthalate	0.228	0.236	0.25	91	95	1-118	3.69	25
1,2-Dichlorobenzene	4.27	4.02	5	85	80	32-129	6.14	25
1,3-Dichlorobenzene	4.31	4.22	5	86	84	1-172	2.27	25
1,4-Dichlorobenzene	4.48	4.22	5	90	84	20-124	5.99	25
3,3-Dichlorobenzidine	0.217	0.226	0.25	87	90	1-262	3.89	25
2,4-Dichlorophenol	0.243	0.241	0.25	97	96	39-135	1.01	25
Diethyl Phthalate	0.227	0.228	0.25	91	91	1-114	0	25
2,4-Dimethylphenol	4.72	4.85	5	94	97	32-119	2.58	25
Dimethyl Phthalate	0.220	0.223	0.25	88	89	1-112	1.55	25
4,6-Dinitro-2-methylphenol	17.5	18.1	25	70	72	59-123	3.29	25
2,4-Dinitrophenol	0.904	0.891	1.25	72	71	1-191	1.43	25
2,4-Dinitrotoluene	0.197	0.208	0.25	79	83	39-139	5.49	25
2,6-Dinitrotoluene	0.193	0.198	0.25	77	79	50-158	2.65	25

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.256	0.249	0.25	103	99	4-146	3.11	25
1,2-Diphenylhydrazine	4.44	4.56	5	89	91	66-128	2.57	25
Fluoranthene	0.213	0.219	0.25	85	88	26-137	2.78	25
Fluorene	0.219	0.217	0.25	88	87	59-121	0.827	25
Hexachlorobenzene	0.199	0.207	0.25	79	83	1-152	4.37	25
Hexachlorobutadiene	0.224	0.222	0.25	89	89	24-116	0	25
Hexachlorocyclopentadiene	18.6	18.2	25	74	73	36-109	1.84	25
Hexachloroethane	0.213	0.199	0.25	85	80	40-113	6.69	25
Indeno (1,2,3-cd) pyrene	0.219	0.215	0.25	88	86	1-171	1.95	25
Isophorone	4.56	4.75	5	91	95	21-196	4.01	25
2-Methylnaphthalene	0.249	0.237	0.25	100	95	58-122	5.01	25
2-Methylphenol (o-Cresol)	5.55	5.07	5	111	101	55-121	9.14	25
3 & 4-Methylphenol (m,p-Cresol)	4.91	4.70	5	98	94	58-121	4.41	25
Naphthalene	0.215	0.214	0.25	86	86	21-133	0	25
2-Nitroaniline	23.1	23.7	25	92	95	65-124	2.60	25
3-Nitroaniline	22.1	22.2	25	88	89	67-125	0.295	25
4-Nitroaniline	23.0	22.7	25	92	91	65-124	1.01	25
Nitrobenzene	4.66	4.75	5	93	95	35-180	1.74	25
2-Nitrophenol	22.3	23.3	25	89	93	29-182	4.22	25
4-Nitrophenol	22.5	22.8	25	90	91	1-132	1.23	25
N-Nitrosodiphenylamine	4.15	4.30	5	83	86	67-132	3.56	25
N-Nitrosodi-n-propylamine	4.91	4.70	5	98	94	1-230	4.40	25
Pentachlorophenol	1.12	1.13	1.25	90	91	14-176	1.15	25
Phenanthrene	0.203	0.208	0.25	81	83	54-120	2.76	25
Phenol	0.234	0.221	0.25	93	89	5-112	5.34	25
Pyrene	0.202	0.202	0.25	81	81	52-115	0	25
Pyridine	3.56	3.06	5	71	61	60-140	15.2	25
1,2,4-Trichlorobenzene	4.46	4.53	5	89	91	44-142	1.65	25
2,4,5-Trichlorophenol	0.218	0.226	0.25	87	90	62-124	3.17	25
2,4,6-Trichlorophenol	0.234	0.232	0.25	93	93	37-144	0	25
N-Nitrosodimethylamine	22.6	21.4	25	91	86	45-111	5.63	25

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	5.14	4.81	5	103	96	29-140	6.60	25
Phenol-d5	5.67	5.34	5	113	107	38-148	5.94	25
Nitrobenzene-d5	5.20	5.24	5	104	105	31-152	0.775	25
2-Fluorobiphenyl	5.01	5.03	5	100	101	40-140	0.514	25
2,4,6-Tribromophenol	5.49	5.74	5	110	115	39-150	4.33	25
Terphenyl-d14	4.79	4.76	5	96	95	38-147	0.689	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165431
Date Analyzed:	9/24/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165431

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40.5	41.4	40	101	103	80-120	1.99	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165200
Date Analyzed:	9/20/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165200

QC Summary Report for Mercury

Analyte	MB Result	RL			
Mercury	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.76	1.76	2	88	88	85-115	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165141
Date Analyzed:	9/19/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165141

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.50	-	-	-
Arsenic	ND	0.50	-	-	-
Beryllium	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Copper	ND	2.0	-	-	-
Lead	ND	0.50	-	-	-
Mercury	ND	0.050	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.19	-	-	-
Thallium	ND	0.50	-	-	-
Zinc	ND	15	-	-	-
Surrogate Recovery					
Terbium	758		750	101	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	52.6	52.5	50	105	105	85-115	0	20
Arsenic	50.4	49.5	50	101	99	85-115	1.92	20
Beryllium	53.0	52.9	50	106	106	85-115	0	20
Cadmium	51.7	51.5	50	103	103	85-115	0	20
Chromium	51.6	51.3	50	103	103	85-115	0	20
Copper	52.0	51.9	50	104	104	85-115	0	20
Lead	50.1	49.8	50	100	100	85-115	0	20
Mercury	1.20	1.18	1.25	96	94	85-115	2.02	20
Nickel	52.5	51.5	50	105	103	85-115	1.96	20
Selenium	51.7	50.0	50	103	100	85-115	3.36	20
Silver	51.8	51.1	50	104	102	85-115	1.36	20
Thallium	48.0	47.9	50	96	96	85-115	0	20
Zinc	517	515	500	103	103	85-115	0	20
Surrogate Recovery								
Terbium	759	758	750	101	101	70-130	0	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809780 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com;
PO:
Project: Semi-Annually Sampling (September 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 15 days; 5 days;

Date Received: **09/19/2018**
Date Logged: **09/19/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1809780-001	I-001	Water	9/19/2018 11:10	☐	H	E	B	C	D	G	A	F	F			

Test Legend:

1	1613_TCDD_W	2	608_W [J]	3	624_W	4	624ACR+2CEVE_W
5	625_SCSM_W	6	ASBESTOS_E100_1M_WW	7	CN_SM4500CE_W	8	HG_W
9	PP13MS_TTLC_W	10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (September 2018) **Work Order:** 1809780
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 9/19/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809780-001A	I-001	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	9/19/2018 11:10	5 days	Present	☐	
1809780-001B	I-001	Water	E624 (VOCs)	2	VOA w/ HCl	☐	9/19/2018 11:10	5 days	Present	☐	
				2	VOA w/ HCl	☐			Present	☐	
1809780-001C	I-001	Water	E624 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
				2	VOA, Unpres	☐			Present	☐	
1809780-001D	I-001	Water	E625 (SVOCs, Low-Level)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
				2	1LA Narrow Mouth, Unpres	☐			Present	☐	
1809780-001E	I-001	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
1809780-001F	I-001	Water	E200.8 (PP13 Metals)	2	250mL HDPE w/ HNO3	☐	9/19/2018 11:10	5 days	Present	☐	
			E245.2 (Mercury)			☐		5 days	Present	☐	
1809780-001G	I-001	Water	Asbestos - E100.1, modified EPA Protocol (MFL)	3	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	SubOut
1809780-001H	I-001	Water	E1613 (2,3,7,8-TCDD only)	3	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	15 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, 925-861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (September 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other
I-001		G	9/19/18	11:10	1	250 ml poly Amb	X			X		X			
I-001		G	9/19/18	11:10	2	43-ml VOA	X			X			X		
I-001		G	9/19/18	11:10	2	43-ml VOA	X			X					
I-001		G	9/19/18	11:10	1	1L Amb	X		X	X					
I-001		G	9/19/18	11:10	1	1L Amb	X		X	X					
I-001		G	See attached sheet for sampling containers			See Appendix B	X								

Analysis Request

Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)
X				
	X			
	X			
		X		
			X	
				X

Remarks

Relinquished By:	Date:	Time:	Received By:
	9/19/18	13:45	9/19/18 13:45
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.0
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

VOAS O&G METALS OTHER
PRESERVATION pH<2

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

Sampling Containers for APPENDIX B

Date:	Time:	# Containers	Container Type	Preservative:	Composite/Grab
9/19/18	11:10	8	Amber Glass 1L	NP	Grab
9/19/18	11:10	2	VOA 40 mL	NP	Grab
9/19/18	11:10	2	VOA 40 mL	HCl	Grab
9/19/18	11:00	2	POLY 250 ml	HNO_3	Composite
9/19/18	11:10	1	Amber Poly 250 mL (pretreated with sodium thiosulfate)	NaOH	Grab

9/19/18 13:45

9/19/18 13:45

APPENDIX A

District Local Discharge Limits include a parameter called Total Toxic Organics (TTO). The required analytical methods for TTO analysis are listed in 40 CFR Part 136 and include the following EPA methods: 624,625, 608, and 1613, respectively. Unless specifically required, EPA method 1613 for dioxins is not mandatory for routine TTO analysis. The constituents with concentrations greater than the minimum limit/reporting limit must be added together to determine compliance with the District's Local Discharge Limit for TTO of 2.0 mg/L. The following is a list of the constituents of TTO:

EPA Method 624 Compounds

Acrolein
Acrylonitrile
Benzene
Bromodichloromethane (Dichlorobromomethane)
Bromform
Brommomethane (Methyl Bromide)
Carbon tetrachloride (Tetrachloromethane)
Chlorobenzene
Chloroethane (Ethyl Chloride)
2-Chloroethyl vinyl ether
Chloroform (trichloromethane)
Chloromethane (Methyl Chloride)
Dibromochloromethane (Chlorodibromomethane)
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethene (1, 1-dichloroethylene)
trans-1, 2-Dichloroethene
1, 2-Dichloropropane
cis-1, 3-Dichloropropene
trans-1, 3-Dichloropropene
Ethylbenzene
Methylene Chloride (Dichloromethane)
1, 1, 2, 2,-Tetrachloroethane
Tetrachloroethene (PCE)
Toluene
1, 1, 1-Trichloreothane
1, 1, 2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
Vinyl chloride (Chloroethylene)

EPA Method 625 Compounds

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g, h, i) perylene
Benzo (k) fluoranthene
Benzyl butyl phthalate
bis (2-Chloroethoxy) methane
bis (2-Chloroethyl) ether
bis (2-Chloroisopropyl) ether
bis (2-Ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenyl
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine
2, 4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethylphthalate
Di-n-butylphthalate
2, 4-Dinitrophenol
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octylphthalate
1,2-Diphenylhydrazine Azo
Fluoranthene
Fluorene
Hexachlorobenzene
Hexchlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene
Isophorone
2-Methyl-4, 6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
1, 2, 4-Trichlorobenzene
2, 4, 6-Trichlorophenol

EPA Method 608 Compounds

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Chlordane
4, 4'-DDD
4, 4'-DDE
4,4'DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Toxaphene

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APPENDIX B

(for 40 CFR part 423 - 126 Priority Pollutants)

001 Acenaphthene
002 Acrolein
003 Acrylonitrile
004 Benzene
005 Benzidine
006 Carbon tetrachloride (tetrachloromethane)
007 Chlorobenzene
008 1, 2, 4-trichlorobenzene
009 Hexachlorobenzene
010 1, 2-dichloroethane
011 1, 1, 1-trichloreothane
012 Hexachloroethane
013 1, 1-dichloroethane
014 1, 1, 2-trichloroethane
015 1, 1, 2, 2-tetrachloroethane
016 Chloroethane
017 Bis (2-chloroethyl) ether
018 2-chloroethyl vinyl ether (mixed)
019 2-chloronaphthalene
020 2, 4, 6-trichlorophenol
021 Parachlorometa cresol
022 Chloroform (trichloromethane)
023 2-chlorophenol
024 1,2-dichlorobenzene (benzo(b)fluoranthene)
025 1,3-dichlorobenzene (benzo(b)fluoranthene)
026 1, 4-dichlorobenzene
027 3, 3-dichlorobenzidine
028 1, 1-dichloroethylene
029 1, 2-trans-dichloroethylene
030 2, 4-dichlorophenol
031 1, 2-dichloropropane
032 1, 2-dichloropropylene (1, 3-dichloropropene)
033 2, 4-dimethylphenol
034 2, 4-dinitrotoluene
035 2, 6-dinitrotoluene
036 1, 2-diphenylhydrazine
037 Ethylbenzene
038 Fluoranthene
039 4-chlorophenyl phenyl ether
040 4-bromophenyl phenyl ether
041 Bis(2-chloroisopropyl) ether
042 Bis(2-chloroethoxy) methane
043 Methylene chloride (dichloromethane)
044 Methyl chloride (dichloromethane)
045 Methyl bromide (bromomethane)
046 Bromoform (tribromomethane)
047 Dichlorobromomethane
048 Chlorodibromomethane
049 Hexachlorobutadiene
050 Hexachloromyclopentadiene
051 Isophorone
052 Naphthalene
053 Nitrobenzene
054 2-Nitrophenol
055 4-nitrophenol
056 2, 4-dinitrophenol
057 4, 6-dinitro-o-cresol
058 N-nitrosodimethylamine
059 N-nitrosodiphenylamine
060 N-nitrosodi-n-propylamine
061 Pentachlorophenol
062 Phenol
063 Bis(2-ethylhexyl) phthalate
064 Butyl benzyl phthalate
065 Di-N-Butyl Phthalate
066 Di-n-octyl Phthalate
067 Diethyl Phthalate
068 Dimethyl phthalate
069 1, 2-benzanthracene (benzo(a)anthracene)
070 Benzo(a)pyrene (3, 4-benzo-pyrene)
071 3,4-Benzofluoranthene (benzo(b) fluoranthene)
072 11,12-benzofluoranthene (benzo(b) fluoranthene
073 Chrysene
074 Acenaphthylene
075 Anthracene
076 1, 12-benzoperylene (benzo(ghi) perylene
077 Fluorene
078 Phenanthrene
079 1, 2, 5, 6-dibenzanthracene (dibenzo(a,h)anthracene)
080 Indeno (1, 2, 3-cd) pyrene (2, 3-o-pheynylene pyrene)
081 Pyrene
082 Tetrachloroethylene
083 Toluene
084 Trichloroethylene
085 Vinyl chloride (chloroethylene)
086 Aldrin
087 Dieldrin
088 Chlordane (technical mixture and metabolites)
089 4, 4-DDT
090 4, 4-DDE (p, p-DDX)
091 4, 4-DDD (p, p-TDE)
092 Alpha-endosulfan
093 Beta-endosulfan
094 Endosulfan sulfate
095 Endrin
096 Endrin aldehyde
097 Heptachlor
098 Heptachlor epoxide (BHC-hexachlorocyclohexane)
099 Alpha-BHC
100 Beta-BHC
101 Gamma-BHC (lindane)
102 Delta-BHC (PCB-polychlorinated bi-phenyls)
103 PCB-1242 (Arochlor 1242)
104 PCB-1254 (Arochlor 1254)
105 PCB-1221 (Arochlor 1221)
106 PCB-1232 (Arochlor 1232)
107 PCB-1248 (Arochlor 1248)
108 PCB-1260 (Arochlor 1260)
109 PCB-1016 (Arochlor 1016)
110 Toxaphene
111 Antimony
112 Arsenic
113 Asbestos
114 Beryllium
115 Cadmium
116 Chromium
117 Copper
118 Cyanide, (Total)
119 Lead
120 Mercury
121 Nickel
122 Selenium
123 Silver
124 Thallium
125 Zinc
126 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)

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9/19/18 13:45

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**9/19/2018 13:45**
Project:	**Semi-Annually Sampling (September 2018)**	Date Logged:	**9/19/2018**
		Received by:	Tina Perez
WorkOrder №:	**1809780** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				
Sample/Temp Blank temperature		Temp: 5.6°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Forensic Analytical LABORATORIES

ANALYSIS REPORT
ASBESTOS IN WASTE WATER
Transmission Electron Microscopy*

Client:	McCampbell Analytical, Inc.		
Contact:	Account Payable	Client Number:	A31409
Street:	1534 Willow Pass Rd	Report Number:	T030468
City/state/zip:	Pittsburg, CA 94565	Date Received:	9/20/18
Site:	Semi-Annually Sampling (September 2018)	Date filtered:	9/20/18
Job ID/PO:	1809780	Analyst(s):	MAB
Date Collected:	9/19/18	Date Analyzed:	9/27/18
Hold time, hrs	<48	Date Reported:	9/27/18
Filter type:	25mm MCE		
Pore size:	0.22 µm		

ANALYTICAL RESULTS

Client Sample Number	I-001				
Lab Sample Number	20121154				
Volume Filtered, mL	30				
Filter Area, mm^2	190				
Grid Opening Area, mm^2	0.0087				
Number of GOs Analyzed	4				
Area Analyzed, mm^2	0.0348				
# Asbestos Fibers, total	0				
# Asbestos Fibers ≥10µm	0				
Analytical Sensitivity, MFL	0.2				
Asbestos Concentration, Total, MFL	**<0.2**				
≥10 micron length	**<0.2**				
Asbestos Type(s) Detected**	ND				
95% Upper Conf. Limit	0.7				
95% Lower Conf. Limit	0.0				

Mark S. Floyd, Analytical Microscopy Supervisor

* EPA Method 100.1 (EPA/600/R-94/134). Results are reported in Millions of Fibers per Liter (MFL)

** Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected; NA-Not Analyzed; n/a=not applicable (i.e., divide by 0); OV=overloaded; BL=blank sample; PF=prepped not analyzed. Confidence Limits relate to total asbestos fibers reported.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc (FALI) at the request of and for the exclusive use of the person or entity (Client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. This report must not be used by the client to claim product endorsement by NVLAP or any U.S. government agency. FALI is unable to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of 30 days, according to all state and federal guidelines, unless otherwise specified.

Pacific Gas and Electric Company®

RECEIVED BY
DELTA DIABLO
JAN 09 2019

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

January 9, 2019

Michael Auer
Delta Diablo Sanitation District (DDD)
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station
DDSD Industrial Wastewater Discharge Permit
Permit Number: 0208841-C

Subject: Quarterly Self-Monitoring Report
(For Period Ending December 31, 2018)

Dear Mr. Auer,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending December 31, 2018, as required under DDD Industrial Wastewater Discharge Permit Number 0208841-C.

Included in the report are: Certification Statement, Industrial User Compliance Report, Industrial Monitoring Report Summary, Discharge Flow Data, Average Daily HRSG Blow-down Steam Cycles, WSAC Operating Months Report, and Laboratory Results.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company®

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Pacific Gas & Electric Company
Gateway Generating Station
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(925) 522-7801

January 9, 2019

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Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Pacific Gas and Electric Company
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in December 31, 2018

This report is to comply with the requirement of the Industrial Wastewater Discharge Permit issued by the Delta Diablo Sanitation District (DDSD) to Gateway Generating Station (GGS) under Permit No. 02088441-C with expiration date of February 28, 2019.

The report includes the following attachments:

Attachment 1:	Certification Statement
Attachment 2:	Industrial User Compliance Report
Attachment 3:	Industrial Monitoring Report Summary
Attachment 4:	Discharge Flow Data
Attachment 5:	Monthly Flow Data
Attachment 6:	WSAC Operating Hours Report
Attachment 7:	Cycles of Concentration
Attachment 8:	Laboratory Results

Attachment 1
Certification Statement

Certification Statement

Name of Business: PG&E Gateway Generating Station

Address: 3225 Wilbur Avenue, Antioch, CA. 94509

Phone: 925-522-7805

Period Covered: Period ending December 31, 2018

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

Signature: Tim Wisdom **Date:** Jan. 8, 2019

Print Name: **Tim Wisdom**

Attachment 2
Industrial User Compliance Report

Industrial User Compliance Report Form

Attn: Michael Auer Pretreatment
Fax # (925)756-1961 Phone: (925)756-1929
From: Tim Wisdom
Company: Pacific Gas and Electric Company – Gateway Generating Station
Period Covered: Period ending December 31, 2018

Industrial User Checklist for self –monitoring reports, as specified by the wastewater discharge permit issued by Delta Diablo Sanitation District:

Self-monitoring reports

_√__ Flow discharge summary (Discharge Permit Section E.1.h.) (See Attachment 4)
_____ Calibration of flow meters, as required. (Section E.1.g.) (Submitted in Q2 2018 SMR)
_√__ Monitoring results- All required tests completed, results reviewed, results included, QA/QC, chain of custody (section F.7.) (See Attachment 8)
_√__ Certification statement included (See Attachment 1)

Violations (if applicable)

_____All wastewater discharge exceedance are reported during this reporting period
_____ Delta Diablo was contacted. (See Additional Notes below)
_____ A follow-up report on characterization re-sampling was submitted on
_____ Corrective actions to resolve violation:
_____ Other violations - i.e. Reporting, spills to sewer, or prohibited discharges

Additional Notes:

Significant changes

Anticipated changes that may alter the nature, quality, or volume of the wastewater discharged. Planned changes shall be submitted at least 90-days prior to implementation and shall include a detailed description of this change. (None)

Attachment 3
Industrial Monitoring Report Summary

INDUSTRIAL MONITORING REPORT SUMMARY (**Industrial Waste: I-001**)

IU NAME : PG&E Gateway Generating Station ID #: 0208841-C SIC: 4911

ADDRESS: 3225 Wilbur Avenue TYPE: Power Generation Plant

CITY : Antioch

DATE				12/20/2018			
TYPE				C24			
STATION				I-001			
SMP.BY				Muskan			
PURPOSE				Compliance Quarterly (Q2)			

LIMITS

PARAMETERS	**WSAC In Operation**	**WSAC Not In Operation**							
FLOW, DAILY (gal)	51,120	51,120							
FLOW, MONTH (gal)									
126 Priority Pollutants	ND (<0.01)	NA							
Dichlorobromomethane (047)	ND (<0.01)	NA							
Chloroform (022)	ND (<0.01)	NA							
Dibromochloromethane (048)	ND (<0.01)	NA							
Tetrachlorodibenzopdioxin-TCDD (126)	ND (<0.01)	NA							
Antimony (111)	ND (<0.01)	0.15							
Arsenic (112)	ND (<0.01)	0.15				0.00018			
Cadmium(115)	ND (<0.01)	0.1				ND (<0.0005)			
Chromium (116)	0.2	0.5				ND (<0.001)			
Copper (117)	1.0*					0.0032			
Lead (119)	ND (<0.01)	0.5				ND (<0.0005)			
Mercury (120)	ND (<0.01)	0.003				ND (<0.0002)			
Nickel (121)	ND (<0.01)	0.50				0.00095			
Selenium (122)	ND (<0.01)	0.25				ND (<0.0005)			
Silver (123)	ND (<0.01)	0.2				ND (<0.0005)			
Zinc (125)	1	1				0.78			
Phenol (062)	1	1							
Cyanide (Total) (118)	ND (<0.01)	0.2							
EPA 608									
EPA 624									
EPA 625									

Comments: ND = Non-Detect, NSD = No Structures Detected, NA = Not Applicable, MFL = Millions of Fibers per Liter

All 126 Priority Pollutants were tested; however, only identified pollutants above ND in this summary or required for quarterly testing. Priority pollutant number as identified in Appendix B of the permit is listed in parenthesis next to the parameter. Refer to Attachment 8 to view all results. Per the preamble to the 1982 version of the final rule for the Steam Electric Category, 40 CFR 423, pg. 52295, DD interpretation is that ND is less than 10 ppb (i.e. 0.01 mg/L). Results reported as indicated in the analytical results. * - as per phone conversation with DDD (Mike Auer) (also as indicated on page 11 of the Permit) on 07/05/2018.

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

October 2018-December 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
10/1/2018	34.6	0.0	NO	22,876	21.4	0	NO	382	23,258.07
10/2/2018	35.0	0.0	NO	22,359	0.0	0	NO		22,359.43
10/3/2018	35.0	0.0	NO	30,751	21.4	0	NO	389	31,139.36
10/4/2018	35.0	0.0	NO	30,808	21.6	0	NO	388	31,196.26
10/5/2018	34.8	0.0	NO	6,204	0.1	0	NO		6,204.49
10/6/2018	35.1	0.0	NO	15,303	0.0	0	NO		15,303.20
10/7/2018	34.9	0.0	NO	20,574	20.4	0	NO	108	20,682.27
10/8/2018	35.0	0.0	NO	24,934	21.2	0	NO	300	25,233.80
10/9/2018	35.0	0.0	NO	24,033	21.3	0	NO	372	24,404.97
10/10/2018	34.5	0.0	NO	48,986	0.1	1	NO	372	49,358.47
10/11/2018	34.7	0.0	NO	22,017	21.6	1	NO	380	22,396.72
10/12/2018	35.1	0.0	NO	14,926	0.0	0	NO	0	14,926.56
10/13/2018	35.0	0.0	NO	18,384	0.0	0	NO	0	18,384.15
10/14/2018	34.9	0.0	NO	28,445	0.0	0	NO		28,445.01
10/15/2018	35.0	0.0	NO	36,551	21.0	0	NO	377	36,928.08
10/16/2018	35.1	0.0	NO	35,763	0.1	0	NO		35,762.59
10/17/2018	35.2	0.0	NO	37,608	20.8	0	NO	407	38,014.22
10/18/2018	34.9	0.0	NO	14,758	20.9	0	NO	393	15,150.71
10/19/2018	34.9	0.0	NO	14,729	0.1	0	NO	7	14,735.63
10/20/2018	34.6	0.0	NO	41,410	0.0	0	NO		41,409.73
10/21/2018	35.0	0.0	NO	31,625	0.0	0	NO		31,624.95
10/22/2018	34.8	0.0	NO	25,121	22.1	0	NO	393	25,514.85
10/23/2018	34.7	37.0	NO	16,583	0.0	38	NO		16,583.09
10/24/2018	34.9	0.0	NO	13,860	21.3	0	NO	379	14,239.34
10/25/2018	34.9	0.0	NO	23,839	0.0	0	NO		23,838.89
10/26/2018	34.8	0.0	NO	36,308	21.9	0	NO	392	36,700.01
10/27/2018	34.7	0.0	NO	22,316	0.0	0	NO		22,315.84
10/28/2018	35.0	0.0	NO	17,767	0.0	0	NO		17,767.24
10/29/2018	34.9	0.0	NO	21,967	20.8	0	NO	390	22,357.27
10/30/2018	35.0	0.0	NO	14,571	0.0	0	NO	4	14,574.92
10/31/2018	35.0	0.0	NO	13,246	20.7	0	NO	395	13,641.38
								Max Daily Flow (Limit: 51,120):	49,358
								Monthly Total:	**754,451**
11/1/2018	35.0	0.0	NO	28,016	21.0	0	NO	402	28,418
11/2/2018	34.8	0.0	NO	42,987	0.1	0	NO	2	42,989
11/3/2018	34.9	0.0	NO	31,743	0.0	0	NO		31,743
11/4/2018	35.3	1.0	NO	21,767	0.0	1	NO		21,767
11/5/2018	34.7	0.0	NO	22,965	20.9	0	NO	393	23,357
11/6/2018	34.9	0.0	NO	30,570	21.2	0	NO	377	30,948
11/7/2018	34.7	0.0	NO	30,533	0.1	0	NO	2	30,535
11/8/2018	34.9	0.0	NO	15,346	21.0	0	NO	397	15,743
11/9/2018	34.9	0.0	NO	37,470	0.0	0	NO		37,470
11/10/2018	34.9	0.0	NO	17,643	21.1	1	NO		17,643
11/11/2018	35.1	0.0	NO	23,025	0.1	1	NO	2	23,026
11/12/2018	34.8	0.0	NO	14,480	0.0	0	NO		14,480
11/13/2018	34.8	0.0	NO	38,895	21.4	0	NO	392	39,287
11/14/2018	34.7	0.0	NO	45,301	0.1	0	NO	6	45,306
11/15/2018	34.8	0.0	NO	24,856	20.5	0	NO	378	25,234
11/16/2018	0.1	0.0	NO		0.1	0	NO		-
11/17/2018	-0.1	0.0	NO		21.2	0	NO	390	390
11/18/2018	34.8	0.0	NO	20,180	0.1	0	NO	10	20,190
11/19/2018	34.4	0.0	NO	13,987	0.1	0	NO		13,987
11/20/2018	34.9	0.0	NO	9,370	21.3	0	NO	401	9,771
11/21/2018	0.0	0.0	NO		0.1	0	NO	8	8

PG&E Gateway Generating Station

Discharge Flow Data

October 2018-December 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
11/22/2018	-0.1	0.0	NO		0.0	0	NO		-
11/23/2018	34.9	0.0	NO	7,803	0.0	0	NO		7,803
11/24/2018	34.3	0.0	NO	744	0.0	0	NO		744
11/25/2018	34.6	0.0	NO	16,739	21.8	0	NO	374	17,112
11/26/2018	34.7	0.0	NO	15,157	0.1	0	NO		15,157
11/27/2018	0.2	0.0	NO		21.3	0	NO	379	379
11/28/2018	0.0	0.0	NO		0.0	0	NO		-
11/29/2018	35.0	0.0	NO	25,816	21.2	0	NO	384	26,200
11/30/2018	34.4	0.0	NO	14,242	0.0	0	NO		14,242
							Max Daily Flow (Limit: 51,120):		45,306
							Monthly Total:		**553,929**
12/1/2018	34.6	0.0	NO	14,321	20.8	0	NO	396	14,717
12/2/2018	34.5	0.0	NO	22,930	0.0	0	NO		22,930
12/3/2018	0.0	0.0	NO		0.0	0	NO		-
12/4/2018	34.5	0.0	NO	19,523	20.9	0	NO	387	19,910
12/5/2018	34.3	0.0	NO	6,352	20.4	0	NO	385	6,737
12/6/2018	34.4	0.0	NO	18,645	0.1	0	NO	1	18,646
12/7/2018	0.0	0.0	NO		0.1	0	NO		-
12/8/2018	0.2	0.0	NO		21.0	0	NO	385	385
12/9/2018	0.5	0.0	NO	4	0.0	0	NO		4
12/10/2018	34.9	0.0	NO	48,053	0.0	1	NO		48,053
12/11/2018	34.7	0.0	NO	39,022	21.4	1	NO	396	39,418
12/12/2018	35.1	0.0	NO	19,079	20.3	0	NO	406	19,485
12/13/2018	34.6	0.0	NO	29,692	0.1	0	NO		29,692
12/14/2018	34.5	0.0	NO	25,666	0.0	0	NO		25,666
12/15/2018	35.0	0.0	NO	18,262	21.1	0	NO	385	18,648
12/16/2018	34.8	0.0	NO	1,148	0.0	0	NO		1,148
12/17/2018	34.6	0.0	NO	24,131	0.0	0	NO		24,131
12/18/2018	34.4	0.0	NO	15,399	21.5	0	NO	394	15,793
12/19/2018	34.9	0.0	NO	28,713	0.1	0	NO	1	28,714
12/20/2018	34.5	0.0	NO	24,338	20.7	0	NO	390	24,728
12/21/2018	0.1	0.0	NO		0.1	0	NO		-
12/22/2018	35.0	0.0	NO	23,880	0.0	0	NO		23,880
12/23/2018	34.7	0.0	NO	6,864	0.0	0	NO		6,864
12/24/2018	0.2	0.0	NO		20.7	0	NO	385	385
12/25/2018	34.9	0.0	NO	9,273	0.0	0	NO	1	9,275
12/26/2018	34.7	0.0	NO	19,289	0.1	0	NO		19,289
12/27/2018	0.0	0.0	NO		21.6	0	NO	395	395
12/28/2018	34.8	0.0	NO	10,313	0.0	0	NO		10,313
12/29/2018	34.6	0.0	NO	18,237	0.0	0	NO		18,237
12/30/2018	34.8	0.0	NO	15,903	20.1	0	NO	383	16,286
12/31/2018	34.5	0.0	NO	38,645	0.0	0	NO		38,645
							Max Daily Flow (Limit: 51,120):		48,053
							Monthly Total:		**502,374**

Notes :

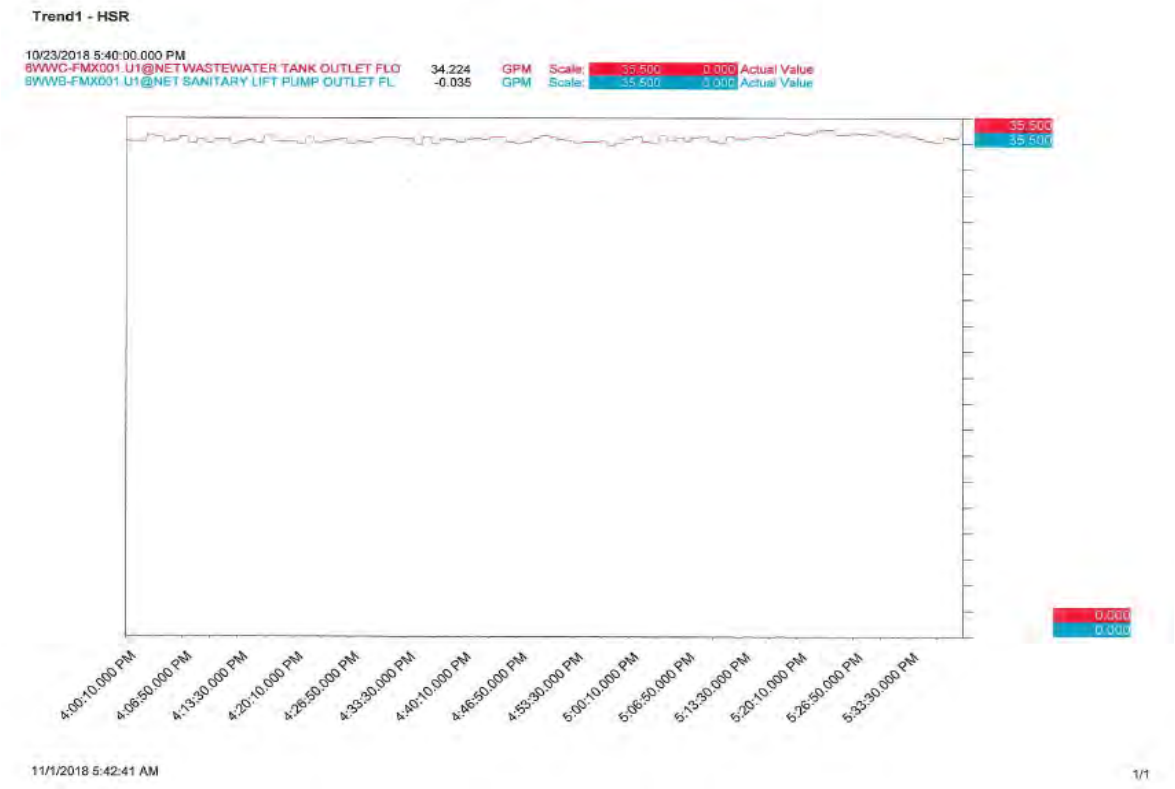
On 10/23 from 14:17 until 15:07 our PI system did not record 37 minutes worth of data. Below is a trend from the DCS showing that we did not exceed our 35.5 GPM limit during that time period.

PG&E Gateway Generating Station

Discharge Flow Data

October 2018-December 2018

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 35.5 GPM (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 35.5 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)



Attachment 5
Monthly Flow Data

Industrial Flow Reporting Form for Delta Diablo

SIU Name: **PG&E Gateway Generating Station**
Address: 3225 Wilbur Avenue, Antioch, CA 94509
City: Antioch
Contact Name: Tim Wisdom
Flow Meter: Sewer Final Effluent ____ City Water Meter ____
(The data are based on flowmeter readings as recorded by the plant's "Pi Historian" data acquisition/handling system)

Year: **2018**

Month	Flow (gallons)	Due Date
January		
February		
March		
April		
May		
June		
July	794,451	1/15/2019
August	553,929	1/15/2019
September	502,374	1/15/2019
October		
November		
December		

Note:
1) Flow data is based on the sewer final effluent flow meter or the City water meter if no effluent flow meter is at the industrial facility.
2) The flow data documentation shall continue to be submitted in the regularly scheduled self-monitoring reports.

Attachment 6
WSAC Operating Hours Report

PG&E Gateway Generating Station

WSAC Operating Hours Report

October 2018 to December 2018

WSAC Operation	
Month	Hours of Operation
January-18	
February-18	
March-18	
April-18	
May-18	
June-18	
July-18	
August-18	
September-18	
October-18	208.08
November-18	46.92
December-18	0.00

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

October 2018 to December 2018

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-18	
February-18	
March-18	
April-18	
May-18	
June-18	
July-18	
August-18	
September-18	
October-18	3.40
November-18	2.88
December-18	No Operation

Average Daily Blowdown Cycles calculated using the ratio of specific conductivities between the three WSAC basins (average) relative to the makeup water.

Attachment 8
Laboratory Results
Quarterly Monitoring of Categorical Waste Stream
(I-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1812B44

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Quarterly Sampling (DEC '18)

Project Received: 12/20/2018

Analytical Report reviewed & approved for release on 12/28/2018 by:

Heidi Fruhlinger
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (DEC '18)
WorkOrder: 1812B44

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TZA	TimeZone Net Adjustment for sample collected outside of MAI's UTC.
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (DEC '18)
WorkOrder: 1812B44

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (DEC '18)

Work Order: 1812B44
December 28, 2018

Our standard ICP-MS analytical procedure is to analyze selenium using the Reaction mode.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1812B44
Date Received:	12/20/18 8:40	**Extraction Method:**	E245.2
Date Prepared:	12/20/18	**Analytical Method:**	E245.2
Project:	Quarterly Sampling (DEC '18)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
1-001	1812B44-001B	Water	12/20/2018 08:40	AA1 _13	170356

Analytes	Result	MDL	RL	DF	Date Analyzed
Mercury	ND	0.14	0.20	1	12/26/2018 13:14

Analyst(s): DB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1812B44
Date Received:	12/20/18 8:40	**Extraction Method:**	E200.8
Date Prepared:	12/20/18	**Analytical Method:**	E200.8
Project:	Quarterly Sampling (DEC '18)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
1-001	1812B44-001A	Water	12/20/2018 08:40	ICP-MS2 096SMPL.D	170334

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Arsenic	**0.18**	J	0.13	0.50	1	12/21/2018 17:47
Cadmium	ND		0.066	0.50	1	12/21/2018 17:47
Chromium	ND		0.77	1.0	1	12/21/2018 17:47
Copper	**3.2**		0.55	1.0	1	12/21/2018 17:47
Lead	ND		0.19	0.50	1	12/21/2018 17:47
Nickel	**0.95**		0.34	0.50	1	12/21/2018 17:47
Selenium	ND		0.20	0.50	1	12/21/2018 17:47
Silver	ND		0.043	0.50	1	12/21/2018 17:47
Zinc	**780**		18	25	1	12/21/2018 17:47

Surrogates	REC (%)	Limits	
Terbium	98	70-130	12/21/2018 17:47

Analyst(s): MIG

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1812B44
Date Prepared:	12/20/18	**BatchID:**	170356
Date Analyzed:	12/26/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (DEC '18)	**Sample ID:**	MB/LCS/LCSD-170356

QC Summary Report for Mercury

Analyte	MB Result	MDL	RL			
Mercury	ND	0.14	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.7	1.8	2	86	89	85-115	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1812B44
Date Prepared:	12/20/18	**BatchID:**	170334
Date Analyzed:	12/20/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (DEC '18)	**Sample ID:**	MB/LCS-170334

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.13	0.50	-	-	-
Cadmium	ND	0.066	0.50	-	-	-
Chromium	ND	0.77	1.0	-	-	-
Copper	ND	0.55	1.0	-	-	-
Lead	ND	0.19	0.50	-	-	-
Nickel	ND	0.34	0.50	-	-	-
Selenium	ND	0.20	0.50	-	-	-
Silver	ND	0.043	0.50	-	-	-
Zinc	ND	18	25	-	-	-
Surrogate Recovery						
Terbium	460			500	93	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	50	-	50	100	-	85-115	-	-
Cadmium	48	-	50	96	-	85-115	-	-
Chromium	47	-	50	95	-	85-115	-	-
Copper	48	-	50	96	-	85-115	-	-
Lead	48	-	50	96	-	85-115	-	-
Nickel	47	-	50	95	-	85-115	-	-
Selenium	51	-	50	101	-	85-115	-	-
Silver	47	-	50	95	-	85-115	-	-
Zinc	490	-	500	99	-	85-115	-	-
Surrogate Recovery								
Terbium	480	-	500	95	-	70-130	-	-

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1812B44 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: tlWY@pge.com; J5Ld@pge.com; A1HE@p
PO:
Project: Quarterly Sampling (DEC '18)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **5 days;**

Date Received: **12/20/2018**
Date Logged: **12/20/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1812B44-001	1-001	Water	12/20/2018 08:40	☐	B	A										

Test Legend:

1	HG_W	2	METALSMS_TTLC_W	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Julia Danielsson

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Quarterly Sampling (DEC '18) **Work Order:** 1812B44
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 12/20/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☑ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1812B44-001A	1-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Copper, Lead, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	12/20/2018 8:40	5 days	None	☐	
1812B44-001B	1-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	12/20/2018 8:40	5 days	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1812B44

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, (510)-861-1597 (Cell) **Fax:** ( )

Project Name: Quarterly Sampling (December 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, and zinc)	Analysis Request: Metals (Arsenic and selenium) 200.8 Selenium by reaction mode	Analysis Request: Mercury (245.2)	Remarks
I-001		C	12/20/18	08:40	1	250-ml poly	X			X				X		X	X		
I-001		C	12/20/18	08:40	1	250-ml poly	X			X				X				X	

Relinquished By:	Date:	Time:	Received By:
	12/20/18	10:47	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

COMMENTS:

ICE/t° 3-4 WET
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**12/20/2018 08:40**
Project:	**Quarterly Sampling (DEC '18)**	Date Logged:	**12/20/2018**
		Received by:	Julia Danielsson
WorkOrder №:	**1812B44** Matrix: Water	Logged by:	Julia Danielsson
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 3.9°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☑	No	☐	NA ☐
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 10

Exhibit 4a1
Communications with DD related with Q3 2018 Compliance Monitoring
(Condition of Certification SOIL&WATER-4)

Pacific Gas and Electric Company®

Mailing Address:
Pacific Gas & Electric Company
Gateway Generating Station
3225 Wilbur Ave.
Antioch, CA 94509
(925) 522-7801

RECEIVED BY DELTA DIABLO
MAR 13 2019

Mar 13, 2019

Michael Auer
Delta Diablo District
2500 Pittsburg-Antioch Hwy.
Antioch, CA 94509-1373

Reference: Pacific Gas and Electric Company - Gateway Generating Station (GGS)
Delta Diablo Industrial Wastewater Discharge Permit Number: 0208841-C

Subject: Closure Report on Cyanide Event of September 2018

Dear Mr. Auer,

This report submits the timeline of activities that GGS implemented as a result of the cyanide exceedance event during the 9/19/2018 semi-annual monitoring of the categorical waste stream. The activities include investigation of the plant's operation processes to identify potential sources of cyanide contamination, clean up of process/storage waste water tanks to remove accumulated debris and sediment, and resampling/analysis of waste streams. This report also submits the results of two consecutive resamplings with non-detectable (<10 parts per billion, ppb) cyanide concentrations.

9/19/2018: The semi-annual monitoring of the categorical waste stream was conducted.

9/27/2018: The analytical result on semi-annual monitoring was received. The cyanide limit (of 0.01 mg/L, or 10 ppb) was exceeded (with 0.047 mg/L, or 47 ppb)

9/27/2018: Notification of exceedance was submitted to the District. GGS suspected a "false positive" on the result. (See Attachment 1 – Notification to Delta Diablo on Cyanide Exceedance)

10/30/2018: The first resampling for cyanide was conducted. Following the recommendations from the District, the samples were collected not from the compliance (sampling) point but from the underground tank (Tiger Pit), which is prior to the compliance point in the plant's process flow. Split samples were collected and sent for analysis to three separate ELAP certified laboratories. All samples were pre-treated with sodium thiosulfate. Each laboratory received two split samples. One sample was preserved with sodium hydroxide the other was not. This approach aims to address the concern on "false positive" results. The samples were analyzed as immediately as feasible to prevent the possible degradation of the analyte over time on the un-preserved samples.

Of the three laboratories, two reported detection levels on cyanide (> 10 ppb) in the preserved samples, but only one in the un-preserved samples. Also, the concentration of cyanide in this un-preserved sample was lower (slightly above the detection level) than in the preserved sample (14 ppb to 21 ppb). The results on this first resampling clearly indicate the "false positive" impact of sodium hydroxide preservation on the cyanide analysis result. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 3 - Analytical Report on Resampling #1.)

11/07/2018: The second resampling on cyanide was collected and analyzed. This is to validate the findings of the first resampling. All results from three laboratories were non-detectable (ND <10 ppb) for both preserved and un-preserved samples. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 4 – Analytical Report on Resampling #2.)

11/24/2018: The third resampling on cyanide was collected and analyzed. The results indicated non-detectable (<10 ppb) concentration in un-preserved sample, and 12 ppb in the preserved sample. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 5 – Analytical Report on Resampling #3.)

12/04/2018: The fourth resampling on cyanide was collected and analyzed. The results in both un-preserved and preserved samples were above detection levels, 32 ppb and 30 ppb, respectively. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 6 – Analytical Report on Resampling #4.)

12/11/2018: The fifth resampling on cyanide was collected and analyzed. The results in both un-preserved and preserved samples were above detection levels, 18 ppb and 13 ppb, respectively. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 7 – Analytical Report on Resampling #5.)

12/14/2018: The sixth resampling on cyanide was collected and analyzed. The results indicated 20 ppb concentration in un-preserved sample, and ND in the preserved sample. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 8 – Analytical Report on Resampling #6.)

12/18/2018: The seventh resampling on cyanide was collected and analyzed. The results in both un-preserved and preserved samples were above detection levels, 28 ppb. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 9 – Analytical Report on Resampling #7.)

1/10/2019: The eighth resampling on cyanide was collected and analyzed. Following the guidance by the District, two sets of samples were collected: one collected by the laboratory sampler, the other by GGS laboratory technician. Both samplers follow the standard sampling procedure. The samples were not preserved. The results in both samples were above detection levels, 51 ppb and 55 ppb, respectively. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 10 – Analytical Report on Resampling #8.)

1/16/2019: The ninth resampling on cyanide was collected and analyzed. On this resampling, GGS investigated the plant's operational processes. This approach aims to identify the potential source/s of cyanide contamination in the wastewater streams prior to and including the Tiger Pit. The source water supply form the City was also sampled. Of the twelve samples, all had non-detectable (ND<10 ppb) concentrations excepting the sample from the Hammond Tank with 26 ppb. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 11 – Analytical Report on Resampling #9.)

1/29/2019: The Hammond Tank was emptied and cleaned-up. GGS suspected that the algal growth inside the tank might have contributed to the above detection level concentration in ninth resampling.

2/7/2019: The tenth resampling on cyanide was collected and analyzed. Three samples were collected: from the Tiger Pit, Hammond Tank, and Source Water. Of these three samples only that which was

collected from the Tiger Pit had detectable concentration. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 12 – Analytical Report on Resampling #10.)

2/11/2019: The eleventh resampling on cyanide was collected and analyzed. Two sets of split samples were collected from the Tiger Pit and RO Reject, and sent to two separate ELAP certified laboratories. The results were closely consistent between the two laboratories. Only the samples that were collected from the Tiger Pit had detectable concentrations. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 13 – Analytical Report on Resampling #11.)

2/20/2019: The Tiger Pit was emptied and cleaned-up.

2/21/2019: The Waste Water Tank was emptied and cleaned-up.

2/25/2019: The twelfth resampling on cyanide was collected and analyzed. Four samples were collected: from the Tiger Pit, Hammond Tank, RO Reject, and Source Water. The results indicated non-detectable concentration (ND<10 ppb) in all samples. (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 14 – Analytical Report on Resampling #12.)

2/27/2019: The thirteenth resampling on cyanide was collected and analyzed. The analytical report on the sample collected from the compliance point indicated non-detectable concentration (ND<10 ppb). (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 15 – Analytical Report on Resampling #13.)

2/28/2019: The fourteenth resampling on cyanide was collected and analyzed. The analytical report on the sample collected from the compliance point indicated non-detectable concentration (ND<10 ppb). (See Attachment 2 – Summary of Cyanide Resampling, and Attachment 16 – Analytical Report on Resampling #14.)

Based on the result of the thirteenth and fourteenth resamplings, GGS believes that the cyanide concentrations of the waste water streams in the system are now below the permit limit.

If you have any questions about this report, please feel free to contact Angel Espiritu at 925-522-7838, 510-861-1597, or at abe4@pge.com. Thank you.

Sincerely,

Tim Wisdom

Tim Wisdom
Senior Plant Manager

Attachment: a/s

Attachment 1

Notification to Delta Diablo on Cyanide Exceedance (09/27/2018)

Espiritu, Angel

From: Espiritu, Angel
Sent: Thursday, September 27, 2018 5:40 PM
To: 'Auer, Michael'
Cc: Wisdom, Tim; Price, Charles; Hammond, David
Subject: Permit Number:0208841-C PG&E Gateway Generating Station
Attachments: 1809780.pdf

Importance: High

Hi Mike,

This is to comply Section F.8 of the Industrial Discharge Permit. Attached is a copy of analytical results on the semi-annual monitoring of the categorical flow. The results on total cyanide is 47 ppb. The limit is 10 ppb. Please let me know if you have questions. I will be off of work tomorrow. Thank you.

Angel B. Espiritu
Pacific Gas & Electric – Gateway Generating Station
Sr. Environmental Consultant-Environmental Compliance Manager
3225 Wilbur Avenue, Antioch, CA 94509
925-522-7838, 510-861-1597 (Cell)
ABE4@pge.com

From: Yen Cao <yen.cao@mccampbell.com> **On Behalf Of** main@mccampbell.com
Sent: Thursday, September 27, 2018 4:20 PM
To: Espiritu, Angel <ABE4@pge.com>
Cc: Hankins, Adam <A1HE@pge.com>; Laurin, Jeremy <J5Ld@pge.com>; Wisdom, Tim <T1WY@pge.com>
Subject: PARTIAL Analytical Report for Project: Semi-Annually Sampling (September 2018) [MAI WO#: 1809780]

*****CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Angel,

Attached is your PARTIAL analytical report. The final report and invoice will follow upon completion of the Dioxins and subcontracted results.

Best regards,

Yen Cao

McCampbell Analytical, Inc.
Ph: 925-252-9262
Fx: 925-252-9269
www.mccampbell.com

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi-Annually Sampling (September 2018)
WorkOrder: 1809780

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E608/SW3620B
Date Prepared:	9/19/18	**Analytical Method:**	E608
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001E	Water	09/19/2018 11:10	GC22 09211811.D	165139

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.00028	0.0010	1	09/21/2018 15:03
a-BHC	ND	0.00031	0.0010	1	09/21/2018 15:03
b-BHC	ND	0.00069	0.0010	1	09/21/2018 15:03
d-BHC	ND	0.00014	0.0010	1	09/21/2018 15:03
g-BHC	ND	0.00045	0.0010	1	09/21/2018 15:03
Chlordane (Technical)	ND	0.0023	0.020	1	09/21/2018 15:03
a-Chlordane	ND	0.00085	0.0010	1	09/21/2018 15:03
g-Chlordane	ND	0.00015	0.0010	1	09/21/2018 15:03
p,p-DDD	ND	0.00011	0.0010	1	09/21/2018 15:03
p,p-DDE	ND	0.00018	0.0010	1	09/21/2018 15:03
p,p-DDT	ND	0.00017	0.0010	1	09/21/2018 15:03
Dieldrin	ND	0.00014	0.0010	1	09/21/2018 15:03
Endosulfan I	ND	0.00011	0.0010	1	09/21/2018 15:03
Endosulfan II	ND	0.00046	0.0010	1	09/21/2018 15:03
Endosulfan sulfate	ND	0.00033	0.0020	1	09/21/2018 15:03
Endrin	ND	0.00018	0.0010	1	09/21/2018 15:03
Endrin aldehyde	ND	0.00053	0.0010	1	09/21/2018 15:03
Endrin ketone	ND	0.00026	0.0010	1	09/21/2018 15:03
Heptachlor	ND	0.00041	0.0010	1	09/21/2018 15:03
Heptachlor epoxide	ND	0.00025	0.0010	1	09/21/2018 15:03
Methoxychlor	ND	0.00012	0.0010	1	09/21/2018 15:03
Toxaphene	ND	0.0020	0.020	1	09/21/2018 15:03
Aroclor1016	ND	0.0019	0.020	1	09/21/2018 15:03
Aroclor1221	ND	0.0024	0.020	1	09/21/2018 15:03
Aroclor1232	ND	0.0038	0.020	1	09/21/2018 15:03
Aroclor1242	ND	0.0028	0.020	1	09/21/2018 15:03
Aroclor1248	ND	0.0018	0.020	1	09/21/2018 15:03
Aroclor1254	ND	0.0015	0.020	1	09/21/2018 15:03
Aroclor1260	ND	0.0028	0.020	1	09/21/2018 15:03
PCBs, total	ND	0.020	0.020	1	09/21/2018 15:03

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	97	14-168	09/21/2018 15:03

Analyst(s): CK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/20/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001C	Water	09/19/2018 11:10	GC28 09201815.D	165341

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	09/20/2018 19:05
Acrylonitrile	ND	2.0	1	09/20/2018 19:05
2-Chloroethyl Vinyl Ether	ND	1.0	1	09/20/2018 19:05

Surrogates	REC (%)	Limits	
Dibromofluoromethane	115	78-141	09/20/2018 19:05

Analyst(s): JEM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001B	Water	09/19/2018 11:10	GC10 09241810.D	165451

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	09/24/2018 13:31
Bromodichloromethane	**1.5**	0.50	1	09/24/2018 13:31
Bromoform	ND	0.50	1	09/24/2018 13:31
Bromomethane	ND	0.50	1	09/24/2018 13:31
Carbon tetrachloride	ND	0.50	1	09/24/2018 13:31
Chlorobenzene	ND	0.50	1	09/24/2018 13:31
Chloroethane	ND	0.50	1	09/24/2018 13:31
Chloroform	**1.2**	0.50	1	09/24/2018 13:31
Chloromethane	ND	0.50	1	09/24/2018 13:31
Dibromochloromethane	ND	0.50	1	09/24/2018 13:31
1,2-Dibromoethane (EDB)	ND	0.50	1	09/24/2018 13:31
1,2-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,3-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,4-Dichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,1-Dichloroethane	ND	0.50	1	09/24/2018 13:31
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	09/24/2018 13:31
1,1-Dichloroethene	ND	0.50	1	09/24/2018 13:31
trans-1,2-Dichloroethene	ND	0.50	1	09/24/2018 13:31
1,2-Dichloropropane	ND	0.50	1	09/24/2018 13:31
cis-1,3-Dichloropropene	ND	0.50	1	09/24/2018 13:31
trans-1,3-Dichloropropene	ND	0.50	1	09/24/2018 13:31
Ethylbenzene	ND	0.50	1	09/24/2018 13:31
Methyl-t-butyl ether (MTBE)	ND	0.50	1	09/24/2018 13:31
Methylene chloride	ND	2.0	1	09/24/2018 13:31
1,1,2,2-Tetrachloroethane	ND	0.50	1	09/24/2018 13:31
Tetrachloroethene	ND	0.50	1	09/24/2018 13:31
Toluene	ND	0.50	1	09/24/2018 13:31
1,2,4-Trichlorobenzene	ND	0.50	1	09/24/2018 13:31
1,1,1-Trichloroethane	ND	0.50	1	09/24/2018 13:31
1,1,2-Trichloroethane	ND	0.50	1	09/24/2018 13:31
Trichloroethene	ND	0.50	1	09/24/2018 13:31
Trichlorofluoromethane	ND	0.50	1	09/24/2018 13:31
Vinyl chloride	ND	0.50	1	09/24/2018 13:31
m,p-Xylene	ND	0.50	1	09/24/2018 13:31
o-Xylene	ND	0.25	1	09/24/2018 13:31
Xylenes, Total	ND	0.25	1	09/24/2018 13:31

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E624
Date Prepared:	9/24/18	**Analytical Method:**	E624
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001B	Water	09/19/2018 11:10	GC10 09241810.D	165451

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	104	78-141		09/24/2018 13:31
Toluene-d8	93	78-129		09/24/2018 13:31
4-BFB	86	61-140		09/24/2018 13:31

Analyst(s): TK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.19	20	09/26/2018 20:45
Acenaphthylene	ND	0.19	20	09/26/2018 20:45
Anthracene	ND	0.19	20	09/26/2018 20:45
Benzidine	ND	96	20	09/26/2018 20:45
Benzo (a) anthracene	ND	0.38	20	09/26/2018 20:45
Benzo (a) pyrene	ND	0.19	20	09/26/2018 20:45
Benzo (b) fluoranthene	ND	0.096	20	09/26/2018 20:45
Benzo (g,h,i) perylene	ND	0.38	20	09/26/2018 20:45
Benzo (k) fluoranthene	ND	0.19	20	09/26/2018 20:45
Benzyl Alcohol	ND	96	20	09/26/2018 20:45
Bis (2-chloroethoxy) Methane	ND	19	20	09/26/2018 20:45
Bis (2-chloroethyl) Ether	ND	0.096	20	09/26/2018 20:45
Bis (2-chloroisopropyl) Ether	ND	0.19	20	09/26/2018 20:45
Bis (2-ethylhexyl) Adipate	ND	57	20	09/26/2018 20:45
Bis (2-ethylhexyl) Phthalate	**6.9**	0.76	20	09/26/2018 20:45
4-Bromophenyl Phenyl Ether	ND	19	20	09/26/2018 20:45
Butylbenzyl Phthalate	ND	38	20	09/26/2018 20:45
4-Chloroaniline	ND	0.38	20	09/26/2018 20:45
4-Chloro-3-methylphenol	ND	19	20	09/26/2018 20:45
2-Chloronaphthalene	ND	19	20	09/26/2018 20:45
2-Chlorophenol	ND	0.38	20	09/26/2018 20:45
4-Chlorophenyl Phenyl Ether	ND	19	20	09/26/2018 20:45
Chrysene	ND	0.19	20	09/26/2018 20:45
Dibenzo (a,h) anthracene	ND	0.19	20	09/26/2018 20:45
Dibenzofuran	ND	19	20	09/26/2018 20:45
Di-n-butyl Phthalate	ND	0.38	20	09/26/2018 20:45
1,2-Dichlorobenzene	ND	38	20	09/26/2018 20:45
1,3-Dichlorobenzene	ND	38	20	09/26/2018 20:45
1,4-Dichlorobenzene	ND	38	20	09/26/2018 20:45
3,3-Dichlorobenzidine	ND	0.38	20	09/26/2018 20:45
2,4-Dichlorophenol	ND	0.19	20	09/26/2018 20:45
Diethyl Phthalate	ND	0.38	20	09/26/2018 20:45
2,4-Dimethylphenol	ND	19	20	09/26/2018 20:45
Dimethyl Phthalate	ND	0.38	20	09/26/2018 20:45
4,6-Dinitro-2-methylphenol	ND	96	20	09/26/2018 20:45
2,4-Dinitrophenol	ND	9.6	20	09/26/2018 20:45
2,4-Dinitrotoluene	ND	0.48	20	09/26/2018 20:45

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.19	20	09/26/2018 20:45
Di-n-octyl Phthalate	ND	2.4	20	09/26/2018 20:45
1,2-Diphenylhydrazine	ND	19	20	09/26/2018 20:45
Fluoranthene	ND	0.19	20	09/26/2018 20:45
Fluorene	ND	0.19	20	09/26/2018 20:45
Hexachlorobenzene	ND	0.096	20	09/26/2018 20:45
Hexachlorobutadiene	ND	0.19	20	09/26/2018 20:45
Hexachlorocyclopentadiene	ND	96	20	09/26/2018 20:45
Hexachloroethane	ND	0.19	20	09/26/2018 20:45
Indeno (1,2,3-cd) pyrene	ND	0.38	20	09/26/2018 20:45
Isophorone	ND	19	20	09/26/2018 20:45
2-Methylnaphthalene	ND	0.19	20	09/26/2018 20:45
2-Methylphenol (o-Cresol)	ND	19	20	09/26/2018 20:45
3 & 4-Methylphenol (m,p-Cresol)	ND	19	20	09/26/2018 20:45
Naphthalene	ND	0.19	20	09/26/2018 20:45
2-Nitroaniline	ND	96	20	09/26/2018 20:45
3-Nitroaniline	ND	96	20	09/26/2018 20:45
4-Nitroaniline	ND	96	20	09/26/2018 20:45
Nitrobenzene	ND	19	20	09/26/2018 20:45
2-Nitrophenol	ND	96	20	09/26/2018 20:45
4-Nitrophenol	ND	96	20	09/26/2018 20:45
N-Nitrosodiphenylamine	ND	19	20	09/26/2018 20:45
N-Nitrosodi-n-propylamine	ND	19	20	09/26/2018 20:45
Pentachlorophenol	ND	4.8	20	09/26/2018 20:45
Phenanthrene	ND	0.38	20	09/26/2018 20:45
Phenol	**0.44**	0.38	20	09/26/2018 20:45
Pyrene	ND	0.38	20	09/26/2018 20:45
Pyridine	ND	19	20	09/26/2018 20:45
1,2,4-Trichlorobenzene	ND	19	20	09/26/2018 20:45
2,4,5-Trichlorophenol	ND	0.96	20	09/26/2018 20:45
2,4,6-Trichlorophenol	ND	0.96	20	09/26/2018 20:45
N-Nitrosodimethylamine	ND	96	20	09/26/2018 20:45

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E625
Date Prepared:	9/19/18	**Analytical Method:**	E625
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001D	Water	09/19/2018 11:10	GC17 09261824.D	165166

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	38	23-101		09/26/2018 20:45
Phenol-d5	40	27-116		09/26/2018 20:45
Nitrobenzene-d5	44	29-116		09/26/2018 20:45
2-Fluorobiphenyl	61	29-112		09/26/2018 20:45
2,4,6-Tribromophenol	70	34-125		09/26/2018 20:45
Terphenyl-d14	88	23-136		09/26/2018 20:45

Analyst(s): REB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	9/24/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001A	Water	09/19/2018 11:10	WC_SKALAR 092418A1_25	165431

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	47	1.0	1	09/24/2018 12:48

Analyst(s): BM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E245.2
Date Prepared:	9/19/18	**Analytical Method:**	E245.2
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001F	Water	09/19/2018 11:10	AA1 _16	165200

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	09/20/2018 11:20

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Received:	9/19/18 13:45	**Extraction Method:**	E200.8
Date Prepared:	9/19/18	**Analytical Method:**	E200.8
Project:	Semi-Annually Sampling (September 2018)	**Unit:**	µg/L

Priority Pollutant Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
I-001	1809780-001F	Water	09/19/2018 11:10	ICP-MS1 124SMPL.D	165141

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	09/21/2018 02:46
Arsenic	**0.91**	0.50	1	09/21/2018 02:46
Beryllium	ND	0.50	1	09/21/2018 02:46
Cadmium	ND	0.25	1	09/21/2018 02:46
Chromium	ND	0.50	1	09/21/2018 02:46
Copper	**4.3**	2.0	1	09/21/2018 02:46
Lead	ND	0.50	1	09/21/2018 02:46
Mercury	ND	0.050	1	09/21/2018 02:46
Nickel	**1.5**	0.50	1	09/21/2018 02:46
Selenium	ND	0.50	1	09/21/2018 02:46
Silver	ND	0.19	1	09/21/2018 02:46
Thallium	ND	0.50	1	09/21/2018 02:46
Zinc	**61**	15	1	09/21/2018 02:46

Surrogates	REC (%)	Limits	
Terbium	101	70-130	09/21/2018 02:46

Analyst(s): ND

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00028	0.0010	-	-	-
a-BHC	ND	0.00031	0.0010	-	-	-
b-BHC	ND	0.00069	0.0010	-	-	-
d-BHC	ND	0.00014	0.0010	-	-	-
g-BHC	ND	0.00045	0.0010	-	-	-
Chlordane (Technical)	ND	0.0023	0.020	-	-	-
a-Chlordane	ND	0.00085	0.0010	-	-	-
g-Chlordane	ND	0.00015	0.0010	-	-	-
p,p-DDD	ND	0.00011	0.0010	-	-	-
p,p-DDE	ND	0.00018	0.0010	-	-	-
p,p-DDT	ND	0.00017	0.0010	-	-	-
Dieldrin	ND	0.00014	0.0010	-	-	-
Endosulfan I	ND	0.00011	0.0010	-	-	-
Endosulfan II	ND	0.00046	0.0010	-	-	-
Endosulfan sulfate	ND	0.00033	0.0020	-	-	-
Endrin	ND	0.00018	0.0010	-	-	-
Endrin aldehyde	ND	0.00053	0.0010	-	-	-
Endrin ketone	ND	0.00026	0.0010	-	-	-
Heptachlor	ND	0.00041	0.0010	-	-	-
Heptachlor epoxide	ND	0.00025	0.0010	-	-	-
Methoxychlor	ND	0.00012	0.0010	-	-	-
Toxaphene	ND	0.0020	0.020	-	-	-
Aroclor1016	ND	0.0019	0.020	-	-	-
Aroclor1221	ND	0.0024	0.020	-	-	-
Aroclor1232	ND	0.0038	0.020	-	-	-
Aroclor1242	ND	0.0028	0.020	-	-	-
Aroclor1248	ND	0.0018	0.020	-	-	-
Aroclor1254	ND	0.0015	0.020	-	-	-
Aroclor1260	ND	0.0028	0.020	-	-	-
PCBs, total	ND	0.020	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.0453			0.050	91	35-113

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165139
Date Analyzed:	9/18/18 - 9/19/18	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165139

QC Summary Report for E608 w/ Florisil Clean-up

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0349	0.0338	0.050	70	68	50-103	3.16	20
a-BHC	0.0375	0.0364	0.050	75	73	63-131	2.97	20
b-BHC	0.0327	0.0314	0.050	65	63	56-112	4.24	20
d-BHC	0.0406	0.0400	0.050	81	80	63-132	1.36	20
g-BHC	0.0363	0.0353	0.050	73	71	61-135	2.66	20
a-Chlordane	0.0343	0.0333	0.050	69	67	54-113	2.91	20
g-Chlordane	0.0359	0.0347	0.050	72	69	55-117	3.31	20
p,p-DDD	0.0340	0.0336	0.050	68	67	56-135	1.22	20
p,p-DDE	0.0365	0.0360	0.050	73	72	56-131	1.43	20
p,p-DDT	0.0344	0.0341	0.050	69	68	47-153	0.865	20
Dieldrin	0.0405	0.0396	0.050	81	79	67-152	2.31	20
Endosulfan I	0.0355	0.0344	0.050	71	69	56-137	3.29	20
Endosulfan II	0.0346	0.0338	0.050	69	68	50-113	2.61	20
Endosulfan sulfate	0.0344	0.0336	0.050	69	67	57-121	2.18	20
Endrin	0.0386	0.0377	0.050	77	75	60-150	2.47	20
Endrin aldehyde	0.0308	0.0304	0.050	62	61	47-121	1.07	20
Endrin ketone	0.0334	0.0326	0.050	67	65	48-130	2.44	20
Heptachlor	0.0350	0.0337	0.050	70	67	46-133	3.60	20
Heptachlor epoxide	0.0336	0.0324	0.050	67	65	54-105	3.61	20
Methoxychlor	0.0398	0.0389	0.050	80	78	54-135	2.20	20
Aroclor1016	0.132	0.129	0.15	88	86	54-103	2.44	20
Aroclor1260	0.124	0.125	0.15	83	83	42-121	0	20
Surrogate Recovery								
Decachlorobiphenyl	0.0354	0.0346	0.050	71	69	35-113	2.23	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/20/18	**BatchID:**	165341
Date Analyzed:	9/20/18	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165341

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	5.0	-	-	-
Acrylonitrile	ND	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	1.0	-	-	-
Surrogate Recovery					
Dibromofluoromethane	31.1		25	124	83-139

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	17.0	18.0	20	85	90	70-130	5.69	20
Acrylonitrile	15.9	16.0	20	80	80	70-130	0	20
2-Chloroethyl Vinyl Ether	22.5	22.2	20	112	111	70-130	1.36	20
Surrogate Recovery								
Dibromofluoromethane	30.0	29.8	25	120	119	83-139	0.666	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.20	-	-	-
Bromodichloromethane	ND	0.50	-	-	-
Bromoform	ND	0.50	-	-	-
Bromomethane	ND	0.50	-	-	-
Carbon tetrachloride	ND	0.50	-	-	-
Chlorobenzene	ND	0.50	-	-	-
Chloroethane	ND	0.50	-	-	-
Chloroform	ND	0.50	-	-	-
Chloromethane	ND	0.50	-	-	-
Dibromochloromethane	ND	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.50	-	-	-
1,1-Dichloroethane	ND	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.50	-	-	-
1,1-Dichloroethene	ND	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.50	-	-	-
1,2-Dichloropropane	ND	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.50	-	-	-
Ethylbenzene	ND	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.50	-	-	-
Methylene chloride	6.05	2.0	-	-	-
Styrene	ND	0.50	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.50	-	-	-
Tetrachloroethene	ND	0.50	-	-	-
Toluene	ND	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.50	-	-	-
Trichloroethene	ND	0.50	-	-	-
Trichlorofluoromethane	ND	0.50	-	-	-
Vinyl chloride	ND	0.50	-	-	-
m,p-Xylene	ND	0.25	-	-	-
o-Xylene	ND	0.25	-	-	-
Xylenes, Total	ND	0.25	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	25.0		25	100	83-139
Toluene-d8	23.7		25	95	87-125
4-BFB	2.11		2.5	84	74-133

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	9.16	9.35	10	92	93	37-151	2.00	20
Bromodichloromethane	8.12	8.43	10	81	84	35-155	3.65	20
Bromoform	7.56	8.05	10	76	80	45-169	6.33	20
Bromomethane	14.8	14.1	10	148	141	1-242	4.80	20
Carbon tetrachloride	8.54	8.86	10	85	89	70-140	3.70	20
Chlorobenzene	8.85	9.16	10	88	92	37-160	3.40	20
Chloroethane	10.0	9.82	10	100	98	14-230	1.76	20
Chloroform	8.83	9.04	10	88	90	51-138	2.33	20
Chloromethane	5.61	5.68	10	56	57	1-273	1.20	20
Dibromochloromethane	8.09	8.54	10	81	85	53-149	5.37	20
1,2-Dibromoethane (EDB)	8.08	8.55	10	81	86	62-127	5.73	20
1,2-Dichlorobenzene	8.99	9.40	10	90	94	18-190	4.50	20
1,3-Dichlorobenzene	8.55	8.88	10	85	89	59-156	3.84	20
1,4-Dichlorobenzene	8.55	8.88	10	85	89	18-190	3.84	20
1,1-Dichloroethane	8.99	9.29	10	90	93	70-130	3.26	20
1,2-Dichloroethane (1,2-DCA)	7.76	8.03	10	78	80	49-155	3.44	20
1,1-Dichloroethene	9.84	10.0	10	98	100	1-234	2.00	20
trans-1,2-Dichloroethene	9.62	9.82	10	96	98	54-156	2.09	20
1,2-Dichloropropane	8.77	9.03	10	88	90	1-210	2.94	20
cis-1,3-Dichloropropene	8.01	8.42	10	80	84	1-227	4.93	20
trans-1,3-Dichloropropene	8.19	8.70	10	82	87	17-183	6.01	20
Ethylbenzene	9.09	9.45	10	91	94	37-162	3.85	20
Methyl-t-butyl ether (MTBE)	7.58	7.90	10	76	79	70-130	4.21	20
Methylene chloride	8.74	9.12	10	87	91	1-221	4.27	20
Styrene	8.46	8.71	10	85	87	54-135	2.98	20
1,1,2,2-Tetrachloroethane	7.83	8.44	10	78	84	46-157	7.43	20
Tetrachloroethene	9.18	9.52	10	92	95	64-148	3.63	20
Toluene	8.32	8.73	10	83	87	47-150	4.76	20
1,2,4-Trichlorobenzene	9.16	9.49	10	92	95	57-139	3.48	20
1,1,1-Trichloroethane	8.56	8.86	10	86	89	52-162	3.34	20
1,1,2-Trichloroethane	8.14	8.68	10	81	87	52-150	6.41	20
Trichloroethene	9.44	9.55	10	94	96	71-157	1.13	20
Trichlorofluoromethane	8.62	8.85	10	86	89	17-181	2.73	20
Vinyl chloride	9.79	9.68	10	98	97	1-251	1.16	20
m,p-Xylene	17.7	18.2	20	89	91	56-131	2.72	20
o-Xylene	8.76	9.04	10	88	90	62-126	3.10	20
Xylenes, Total	26.5	27.2	30	88	91	59-128	2.84	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165451
Date Analyzed:	9/24/18	**Extraction Method:**	E624
Instrument:	GC10	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165451

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	25.0	25.0	25	100	100	83-139	0	20
Toluene-d8	25.1	25.4	25	100	102	87-125	1.23	20
4-BFB	2.26	2.37	2.5	90	95	74-133	4.75	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.010	-	-	-
Acenaphthylene	ND	0.010	-	-	-
Anthracene	ND	0.010	-	-	-
Benzidine	ND	5.0	-	-	-
Benzo (a) anthracene	ND	0.020	-	-	-
Benzo (a) pyrene	ND	0.010	-	-	-
Benzo (b) fluoranthene	ND	0.0050	-	-	-
Benzo (g,h,i) perylene	ND	0.020	-	-	-
Benzo (k) fluoranthene	ND	0.010	-	-	-
Benzyl Alcohol	ND	5.0	-	-	-
Bis (2-chloroethoxy) Methane	ND	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.010	-	-	-
Bis (2-ethylhexyl) Adipate	ND	3.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.040	-	-	-
4-Bromophenyl Phenyl Ether	ND	1.0	-	-	-
Butylbenzyl Phthalate	ND	2.0	-	-	-
4-Chloroaniline	ND	0.020	-	-	-
4-Chloro-3-methylphenol	ND	1.0	-	-	-
2-Chloronaphthalene	ND	1.0	-	-	-
2-Chlorophenol	ND	0.020	-	-	-
4-Chlorophenyl Phenyl Ether	ND	1.0	-	-	-
Chrysene	ND	0.010	-	-	-
Dibenzo (a,h) anthracene	ND	0.010	-	-	-
Dibenzofuran	ND	1.0	-	-	-
Di-n-butyl Phthalate	ND	0.020	-	-	-
1,2-Dichlorobenzene	ND	2.0	-	-	-
1,3-Dichlorobenzene	ND	2.0	-	-	-
1,4-Dichlorobenzene	ND	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.020	-	-	-
2,4-Dichlorophenol	ND	0.010	-	-	-
Diethyl Phthalate	ND	0.020	-	-	-
2,4-Dimethylphenol	ND	1.0	-	-	-
Dimethyl Phthalate	ND	0.020	-	-	-
4,6-Dinitro-2-methylphenol	ND	5.0	-	-	-
2,4-Dinitrophenol	ND	0.50	-	-	-
2,4-Dinitrotoluene	ND	0.025	-	-	-
2,6-Dinitrotoluene	ND	0.010	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Di-n-octyl Phthalate	ND	0.12	-	-	-
1,2-Diphenylhydrazine	ND	1.0	-	-	-
Fluoranthene	ND	0.010	-	-	-
Fluorene	ND	0.010	-	-	-
Hexachlorobenzene	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.010	-	-	-
Hexachlorocyclopentadiene	ND	5.0	-	-	-
Hexachloroethane	ND	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.020	-	-	-
Isophorone	ND	1.0	-	-	-
2-Methylnaphthalene	ND	0.010	-	-	-
2-Methylphenol (o-Cresol)	ND	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	1.0	-	-	-
Naphthalene	ND	0.010	-	-	-
2-Nitroaniline	ND	5.0	-	-	-
3-Nitroaniline	ND	5.0	-	-	-
4-Nitroaniline	ND	5.0	-	-	-
Nitrobenzene	ND	1.0	-	-	-
2-Nitrophenol	ND	5.0	-	-	-
4-Nitrophenol	ND	5.0	-	-	-
N-Nitrosodiphenylamine	ND	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	1.0	-	-	-
Pentachlorophenol	ND	0.25	-	-	-
Phenanthrene	ND	0.020	-	-	-
Phenol	ND	0.020	-	-	-
Pyrene	ND	0.020	-	-	-
Pyridine	ND	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	1.0	-	-	-
2,4,5-Trichlorophenol	ND	0.050	-	-	-
2,4,6-Trichlorophenol	ND	0.050	-	-	-
N-Nitrosodimethylamine	ND	5.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	5.08		5	102	8-130
Phenol-d5	5.37		5	107	5-130
Nitrobenzene-d5	4.67		5	93	20-140
2-Fluorobiphenyl	4.58		5	92	40-140
2,4,6-Tribromophenol	5.51		5	110	16-180
Terphenyl-d14	4.34		5	87	40-170

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.217	0.220	0.25	87	88	47-145	1.14	25
Acenaphthylene	0.207	0.212	0.25	83	85	33-145	2.35	25
Anthracene	0.210	0.216	0.25	84	86	27-133	2.92	25
Benzidine	17.0	18.3	25	68	73	43-106	7.53	25
Benzo (a) anthracene	0.197	0.200	0.25	79	80	33-143	1.28	25
Benzo (a) pyrene	0.226	0.222	0.25	90	89	17-163	1.97	25
Benzo (b) fluoranthene	0.231	0.211	0.25	92	84	24-159	9.15	25
Benzo (g,h,i) perylene	0.215	0.213	0.25	86	85	1-219	1.01	25
Benzo (k) fluoranthene	0.207	0.200	0.25	83	80	11-162	3.10	25
Benzyl Alcohol	26.3	23.7	25	105	95	53-117	10.3	25
Bis (2-chloroethoxy) Methane	4.70	4.86	5	94	97	33-184	3.21	25
Bis (2-chloroethyl) Ether	0.254	0.297	0.25	102	119	12-158	15.5	25
Bis (2-chloroisopropyl) Ether	0.270	0.256	0.25	108	102	36-166	5.47	25
Bis (2-ethylhexyl) Adipate	4.08	4.29	5	82	86	55-122	4.99	25
Bis (2-ethylhexyl) Phthalate	0.236	0.241	0.25	95	96	8-158	2.01	25
4-Bromophenyl Phenyl Ether	4.11	4.27	5	82	85	53-127	3.75	25
Butylbenzyl Phthalate	4.99	4.73	5	100	95	1-152	5.38	25
4-Chloroaniline	0.233	0.234	0.25	93	94	63-120	0.618	25
4-Chloro-3-methylphenol	4.55	4.62	5	91	92	22-147	1.54	25
2-Chloronaphthalene	4.62	4.66	5	92	93	60-118	0.892	25
2-Chlorophenol	0.237	0.216	0.25	95	87	23-134	9.26	25
4-Chlorophenyl Phenyl Ether	4.26	4.14	5	85	83	25-158	2.94	25
Chrysene	0.203	0.201	0.25	81	81	17-168	0	25
Dibenzo (a,h) anthracene	0.211	0.210	0.25	84	84	1-227	0	25
Dibenzofuran	4.35	4.38	5	87	88	64-122	0.679	25
Di-n-butyl Phthalate	0.228	0.236	0.25	91	95	1-118	3.69	25
1,2-Dichlorobenzene	4.27	4.02	5	85	80	32-129	6.14	25
1,3-Dichlorobenzene	4.31	4.22	5	86	84	1-172	2.27	25
1,4-Dichlorobenzene	4.48	4.22	5	90	84	20-124	5.99	25
3,3-Dichlorobenzidine	0.217	0.226	0.25	87	90	1-262	3.89	25
2,4-Dichlorophenol	0.243	0.241	0.25	97	96	39-135	1.01	25
Diethyl Phthalate	0.227	0.228	0.25	91	91	1-114	0	25
2,4-Dimethylphenol	4.72	4.85	5	94	97	32-119	2.58	25
Dimethyl Phthalate	0.220	0.223	0.25	88	89	1-112	1.55	25
4,6-Dinitro-2-methylphenol	17.5	18.1	25	70	72	59-123	3.29	25
2,4-Dinitrophenol	0.904	0.891	1.25	72	71	1-191	1.43	25
2,4-Dinitrotoluene	0.197	0.208	0.25	79	83	39-139	5.49	25
2,6-Dinitrotoluene	0.193	0.198	0.25	77	79	50-158	2.65	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.256	0.249	0.25	103	99	4-146	3.11	25
1,2-Diphenylhydrazine	4.44	4.56	5	89	91	66-128	2.57	25
Fluoranthene	0.213	0.219	0.25	85	88	26-137	2.78	25
Fluorene	0.219	0.217	0.25	88	87	59-121	0.827	25
Hexachlorobenzene	0.199	0.207	0.25	79	83	1-152	4.37	25
Hexachlorobutadiene	0.224	0.222	0.25	89	89	24-116	0	25
Hexachlorocyclopentadiene	18.6	18.2	25	74	73	36-109	1.84	25
Hexachloroethane	0.213	0.199	0.25	85	80	40-113	6.69	25
Indeno (1,2,3-cd) pyrene	0.219	0.215	0.25	88	86	1-171	1.95	25
Isophorone	4.56	4.75	5	91	95	21-196	4.01	25
2-Methylnaphthalene	0.249	0.237	0.25	100	95	58-122	5.01	25
2-Methylphenol (o-Cresol)	5.55	5.07	5	111	101	55-121	9.14	25
3 & 4-Methylphenol (m,p-Cresol)	4.91	4.70	5	98	94	58-121	4.41	25
Naphthalene	0.215	0.214	0.25	86	86	21-133	0	25
2-Nitroaniline	23.1	23.7	25	92	95	65-124	2.60	25
3-Nitroaniline	22.1	22.2	25	88	89	67-125	0.295	25
4-Nitroaniline	23.0	22.7	25	92	91	65-124	1.01	25
Nitrobenzene	4.66	4.75	5	93	95	35-180	1.74	25
2-Nitrophenol	22.3	23.3	25	89	93	29-182	4.22	25
4-Nitrophenol	22.5	22.8	25	90	91	1-132	1.23	25
N-Nitrosodiphenylamine	4.15	4.30	5	83	86	67-132	3.56	25
N-Nitrosodi-n-propylamine	4.91	4.70	5	98	94	1-230	4.40	25
Pentachlorophenol	1.12	1.13	1.25	90	91	14-176	1.15	25
Phenanthrene	0.203	0.208	0.25	81	83	54-120	2.76	25
Phenol	0.234	0.221	0.25	93	89	5-112	5.34	25
Pyrene	0.202	0.202	0.25	81	81	52-115	0	25
Pyridine	3.56	3.06	5	71	61	60-140	15.2	25
1,2,4-Trichlorobenzene	4.46	4.53	5	89	91	44-142	1.65	25
2,4,5-Trichlorophenol	0.218	0.226	0.25	87	90	62-124	3.17	25
2,4,6-Trichlorophenol	0.234	0.232	0.25	93	93	37-144	0	25
N-Nitrosodimethylamine	22.6	21.4	25	91	86	45-111	5.63	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165166
Date Analyzed:	9/19/18	**Extraction Method:**	E625
Instrument:	GC17	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165166

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	5.14	4.81	5	103	96	29-140	6.60	25
Phenol-d5	5.67	5.34	5	113	107	38-148	5.94	25
Nitrobenzene-d5	5.20	5.24	5	104	105	31-152	0.775	25
2-Fluorobiphenyl	5.01	5.03	5	100	101	40-140	0.514	25
2,4,6-Tribromophenol	5.49	5.74	5	110	115	39-150	4.33	25
Terphenyl-d14	4.79	4.76	5	96	95	38-147	0.689	25

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/24/18	**BatchID:**	165431
Date Analyzed:	9/24/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165431

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40.5	41.4	40	101	103	80-120	1.99	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/19/18	**BatchID:**	165200
Date Analyzed:	9/20/18	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165200

QC Summary Report for Mercury

Analyte	MB Result	RL			
Mercury	ND	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Mercury	1.76	1.76	2	88	88	85-115	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1809780
Date Prepared:	9/18/18	**BatchID:**	165141
Date Analyzed:	9/19/18	**Extraction Method:**	E200.8
Instrument:	ICP-MS2	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Semi-Annually Sampling (September 2018)	**Sample ID:**	MB/LCS/LCSD-165141

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.50	-	-	-
Arsenic	ND	0.50	-	-	-
Beryllium	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Copper	ND	2.0	-	-	-
Lead	ND	0.50	-	-	-
Mercury	ND	0.050	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.19	-	-	-
Thallium	ND	0.50	-	-	-
Zinc	ND	15	-	-	-
Surrogate Recovery					
Terbium	758		750	101	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	52.6	52.5	50	105	105	85-115	0	20
Arsenic	50.4	49.5	50	101	99	85-115	1.92	20
Beryllium	53.0	52.9	50	106	106	85-115	0	20
Cadmium	51.7	51.5	50	103	103	85-115	0	20
Chromium	51.6	51.3	50	103	103	85-115	0	20
Copper	52.0	51.9	50	104	104	85-115	0	20
Lead	50.1	49.8	50	100	100	85-115	0	20
Mercury	1.20	1.18	1.25	96	94	85-115	2.02	20
Nickel	52.5	51.5	50	105	103	85-115	1.96	20
Selenium	51.7	50.0	50	103	100	85-115	3.36	20
Silver	51.8	51.1	50	104	102	85-115	1.36	20
Thallium	48.0	47.9	50	96	96	85-115	0	20
Zinc	517	515	500	103	103	85-115	0	20
Surrogate Recovery								
Terbium	759	758	750	101	101	70-130	0	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1809780 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com;
PO:
Project: Semi-Annually Sampling (September 2018)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TATs: 15 days; 5 days;

Date Received: **09/19/2018**
Date Logged: **09/19/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1809780-001	I-001	Water	9/19/2018 11:10	☐	H	E	B	C	D	G	A	F	F			

Test Legend:

1	1613_TCDD_W	2	608_W [J]	3	624_W	4	624ACR+2CEVE_W
5	625_SCSM_W	6	ASBESTOS_E100_1M_WW	7	CN_SM4500CE_W	8	HG_W
9	PP13MS_TTLC_W	10		11		12	

Prepared by: Kena Ponce

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Semi-Annually Sampling (September 2018) **Work Order:** 1809780
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 9/19/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1809780-001A	I-001	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	9/19/2018 11:10	5 days	Present	☐	
1809780-001B	I-001	Water	E624 (VOCs)	2	VOA w/ HCl	☐	9/19/2018 11:10	5 days	Present	☐	
				2	VOA w/ HCl	☐			Present	☐	
1809780-001C	I-001	Water	E624 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
				2	VOA, Unpres	☐			Present	☐	
1809780-001D	I-001	Water	E625 (SVOCs, Low-Level)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
				2	1LA Narrow Mouth, Unpres	☐			Present	☐	
1809780-001E	I-001	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	1	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	
1809780-001F	I-001	Water	E200.8 (PP13 Metals)	2	250mL HDPE w/ HNO3	☐	9/19/2018 11:10	5 days	Present	☐	
			E245.2 (Mercury)			☐		5 days	Present	☐	
1809780-001G	I-001	Water	Asbestos - E100.1, modified EPA Protocol (MFL)	3	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	5 days	Present	☐	SubOut
1809780-001H	I-001	Water	E1613 (2,3,7,8-TCDD only)	3	1LA Narrow Mouth, Unpres	☐	9/19/2018 11:10	15 days	Present	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ **PDF** ☐ **Excel** ☐ **Write On (DW)** ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu **Bill To:** PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com

Tel: (925) 522-7838, 925-861-1597 (Cell) **Fax:** ( )

Project Name: Semi- Annually Sampling (September 2018)

Project Location: Categorical Waste-stream

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Remarks
I-001		G	9/19/18	11:10	1	250 ml poly Amb	X			X		X				X					
I-001		G	9/19/18	11:10	2	43-ml VOA	X			X			X				X				
I-001		G	9/19/18	11:10	2	43-ml VOA	X			X							X				
I-001		G	9/19/18	11:10	1	1L Amb	X		X	X								X			
I-001		G	9/19/18	11:10	1	1L Amb	X		X	X									X		
I-001		G	See attached sampling containers			See Appendix B	X													X	

Relinquished By:	Date:	Time:	Received By:
	9/19/18	13:45	9/19/18 13:45
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.0
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

Sampling Containers for APPENDIX B

Date:	Time:	# Containers	Container Type	Preservative:	Composite/Grab
9/19/18	11:10	8	Amber Glass 1L	NP	Grab
9/19/18	11:10	2	VOA 40 mL	NP	Grab
9/19/18	11:10	2	VOA 40 mL	HCl	Grab
9/19/18	11:00	2	POLY 250 ml	HNO_3	Composite
9/19/18	11:10	1	Amber Poly 250 mL (pretreated with sodium thiosulfate)	NaOH	Grab

9/19/18
13:45

9/19/18 13:45

APPENDIX A

District Local Discharge Limits include a parameter called Total Toxic Organics (TTO). The required analytical methods for TTO analysis are listed in 40 CFR Part 136 and include the following EPA methods: 624,625, 608, and 1613, respectively. Unless specifically required, EPA method 1613 for dioxins is not mandatory for routine TTO analysis. The constituents with concentrations greater than the minimum limit/reporting limit must be added together to determine compliance with the District's Local Discharge Limit for TTO of 2.0 mg/L. The following is a list of the constituents of TTO:

EPA Method 624 Compounds

Acrolein
Acrylonitrile
Benzene
Bromodichloromethane (Dichlorobromomethane)
Bromform
Bromomethane (Methyl Bromide)
Carbon tetrachloride (Tetrachloromethane)
Chlorobenzene
Chloroethane (Ethyl Chloride)
2-Chloroethyl vinyl ether
Chloroform (trichloromethane)
Chloromethane (Methyl Chloride)
Dibromochloromethane (Chlorodibromomethane)
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
1, 1-Dichloroethane
1, 2-Dichloroethane
1, 1-Dichloroethene (1, 1-dichloroethylene)
trans-1, 2-Dichloroethene
1, 2-Dichloropropane
cis-1, 3-Dichloropropene
trans-1, 3-Dichloropropene
Ethylbenzene
Methylene Chloride (Dichloromethane)
1, 1, 2, 2,-Tetrachloroethane
Tetrachloroethene (PCE)
Toluene
1, 1, 1-Trichloroethane
1, 1, 2-Trichloroethane
Trichloroethene (TCE)
Trichlorofluoromethane
Vinyl chloride (Chloroethylene)

EPA Method 625 Compounds

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g, h, i) perylene
Benzo (k) fluoranthene
Benzyl butyl phthalate
bis (2-Chloroethoxy) methane
bis (2-Chloroethyl) ether
bis (2-Chloroisopropyl) ether
bis (2-Ethylhexyl) phthalate
4-Bromophenyl phenyl ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenyl
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a, h) anthracene
1, 2-Dichlorobenzene
1, 3-Dichlorobenzene
1, 4-Dichlorobenzene
3, 3'-Dichlorobenzidine
2, 4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethylphthalate
Di-n-butylphthalate
2, 4-Dinitrophenol
2, 4-Dinitrotoluene
2, 6-Dinitrotoluene
Di-n-octylphthalate
1,2-Diphenylhydrazine/Azo
Fluoranthene
Fluorene
Hexachlorobenzene
Hexchlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno (1, 2, 3-cd) pyrene
Isophorone
2-Methyl-4, 6-dinitrophenol
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitroso-di-n-propylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
1, 2, 4-Trichlorobenzene
2, 4, 6-Trichlorophenol

EPA Method 608 Compounds

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Chlordane
4, 4'-DDD
4, 4'-DDE
4,4'DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
Toxaphene

9/19/18 13:45
9/19/18
13:45

APPENDIX B

(for 40 CFR part 423 - 126 Priority Pollutants)

001 Acenaphthene
002 Acrolein
003 Acrylonitrile
004 Benzene
005 Benzidine
006 Carbon tetrachloride (tetrachloromethane)
007 Chlorobenzene
008 1, 2, 4-trichlorobenzene
009 Hexachlorobenzene
010 1, 2-dichloroethane
011 1, 1, 1-trichloreothane
012 Hexachloroethane
013 1, 1-dichloroethane
014 1, 1, 2-trichloroethane
015 1, 1, 2, 2-tetrachloroethane
016 Chloroethane
017 Bis (2-chloroethyl) ether
018 2-chloroethyl vinyl ether (mixed)
019 2-chloronaphthalene
020 2, 4, 6-trichlorophenol
021 Parachlorometa cresol
022 Chloroform (trichloromethane)
023 2-chlorophenol
024 1,2-dichlorobenzene (benzo(b)fluoranthene)
025 1,3-dichlorobenzene (benzo(b)fluoranthene)
026 1, 4-dichlorobenzene
027 3, 3-dichlorobenzidine
028 1, 1-dichloroethylene
029 1, 2-trans-dichloroethylene
030 2, 4-dichlorophenol
031 1, 2-dichloropropane
032 1, 2-dichloropropylene (1, 3-dichloropropene)
033 2, 4-dimethylphenol
034 2, 4-dinitrotoluene
035 2, 6-dinitrotoluene
036 1, 2-diphenylhydrazine
037 Ethylbenzene
038 Fluoranthene
039 4-chlorophenyl phenyl ether
040 4-bromophenyl phenyl ether
041 Bis(2-chloroisopropyl) ether
042 Bis(2-chloroethoxy) methane
043 Methylene chloride (dichloromethane)
044 Methyl chloride (dichloromethane)
045 Methyl bromide (bromomethane)
046 Bromoform (tribromomethane)
047 Dichlorobromomethane
048 Chlorodibromomethane
049 Hexachlorobutadiene
050 Hexachloromyclopentadiene
051 Isophorone
052 Naphthalene
053 Nitrobenzene
054 2-Nitrophenol
055 4-nitrophenol
056 2, 4-dinitrophenol
057 4, 6-dinitro-o-cresol
058 N-nitrosodimethylamine
059 N-nitrosodiphenylamine
060 N-nitrosodi-n-propylamine
061 Pentachlorophenol
062 Phenol
063 Bis(2-ethylhexyl) phthalate
064 Butyl benzyl phthalate
065 Di-N-Butyl Phthalate
066 Di-n-octyl Phthalate
067 Diethyl Phthalate
068 Dimethyl phthalate
069 1, 2-benzanthracene (benzo(a)anthracene)
070 Benzo(a)pyrene (3, 4-benzo-pyrene)
071 3,4-Benzofluoranthene (benzo(b) fluoranthene)
072 11,12-benzofluoranthene (benzo(b) fluoranthene)
073 Chrysene
074 Acenaphthylene
075 Anthracene
076 1, 12-benzoperylene (benzo(ghi) perylene
077 Fluorene
078 Phenanthrene
079 1, 2, 5, 6-dibenzanthracene (dibenzo(a,h)anthracene)
080 Indeno (1, 2, 3-cd) pyrene (2, 3-o-pheynylene pyrene)
081 Pyrene
082 Tetrachloroethylene
083 Toluene
084 Trichloroethylene
085 Vinyl chloride (chloroethylene)
086 Aldrin
087 Dieldrin
088 Chlordane (technical mixture and metabolites)
089 4, 4-DDT
090 4, 4-DDE (p, p-DDX)
091 4, 4-DDD (p, p-TDE)
092 Alpha-endosulfan
093 Beta-endosulfan
094 Endosulfan sulfate
095 Endrin
096 Endrin aldehyde
097 Heptachlor
098 Heptachlor epoxide (BHC-hexachlorocyclohexane)
099 Alpha-BHC
100 Beta-BHC
101 Gamma-BHC (lindane)
102 Delta-BHC (PCB-polychlorinated bi-phenyls)
103 PCB-1242 (Arochlor 1242)
104 PCB-1254 (Arochlor 1254)
105 PCB-1221 (Arochlor 1221)
106 PCB-1232 (Arochlor 1232)
107 PCB-1248 (Arochlor 1248)
108 PCB-1260 (Arochlor 1260)
109 PCB-1016 (Arochlor 1016)
110 Toxaphene
111 Antimony
112 Arsenic
113 Asbestos
114 Beryllium
115 Cadmium
116 Chromium
117 Copper
118 Cyanide, (Total)
119 Lead
120 Mercury
121 Nickel
122 Selenium
123 Silver
124 Thallium
125 Zinc
126 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)

9/19/18 13:45

9/19/18 13:45

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**9/19/2018 13:45**
Project:	**Semi-Annually Sampling (September 2018)**	Date Logged:	**9/19/2018**
		Received by:	Tina Perez
WorkOrder №:	**1809780** Matrix: Water	Logged by:	Kena Ponce
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 5.6°C				NA	☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA	☑
UCMR Samples:						
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA	☑

Comments:

Attachment 2

Summary of Cyanide Resampling Results

GGS - Summary of Cyanide Resampling Results

	Resample #1: 10/30/2018 - @ Tiger Pit		Resample #2: 11/07/2018 @ Tiger Pit		Resample #3: 11/24/2018 @ Tiger Pit		Resample #4: 12/04/2018 @ Tiger Pit		Resample #5: 12/11/2018 @ Tiger Pit		Resample #6: 12/14/2018 @ Tiger Pit		Resample #7: 12/18/2018 @ Tiger Pit	
Analytical Laboratory	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative	No Preservative	w/ NaOH Preservative
	Units: ppb													
Laboratory 1	14.0	21.0	ND (<1.0)	ND (<1.0)										
Laboratory 2	9.7	20.0	ND (J1.1*)	ND (J2.5*)										
Laboratory 3	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	ND (<10.0)	12.0	32.0	30.0	18.0	13.0	20.0	ND (<10)	28.0	28.0

Note:

** - Non-detect with J Flag: Estimated values below the reporting limit, but above the method detection limit.*

	Resample #8 1/10/2019		Resample #9 (1/16/2019)	Resample #10 (2/7/2019)	Resample #11 (2/11/2019)		Resample #12 (2/25/2019)	Resample #13 (2/27/2019)	Resample #14 (2/28/2019)
	No Preservative	No Preservative	No Preservative	No Preservative	No Preservative		No Preservative	No Preservative	No Preservative
Sampler	Enthalpy	Doug Welch	Muskan	Muskan	Muskan		Muskan	Doug Welch	Muskan
Laboratory	Enthalpy	Enthalpy	Enthalpy	Enthalpy	Enthalpy	MAI	Enthalpy	Enthalpy	Enthalpy
Sampling Location	units: ppb								
Tiger Pit	51.0	55.0	ND (<10)	13.0	14.0	29.0	ND (<10)		
HRSG IP A			ND (<10)						
HRSG IP B			ND (<10)						
Phospate Skid			ND (<10)						
CC Coolong Water			ND (<10)						
Amine Skid			ND (<10)						
E-006 (Storm Outfall)			ND (<10)						
Hammond Tank			26.0	ND (<10)			ND (<10)		
OWS			ND (<10)						
Ammonia Sump			ND (<10)						
Service Water Tank Drain			ND (<10)						
Source Water		ND (<10.0)	ND (<10)	ND (<10)			ND (<10)		
RO Reject					ND (<10)	1.7	ND (<10)		
Compliance Point								ND (<10)	ND (<10)

Attachment 3

Analytical Report on Resampling #1

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1810E56

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample 1 (10/30/18)

Project Received: 10/30/2018

Analytical Report reviewed & approved for release on 10/31/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample 1 (10/30/18)
WorkOrder: 1810E56

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1810E56
Date Received:	10/30/18 10:00	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	10/30/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample 1 (10/30/18)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Amber	1810E56-001A	Water	10/30/2018 07:55	WC_SKALAR 103018A1_35	167499

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**21**	1.0	1	10/30/2018 11:17

Analyst(s): NM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Clear	1810E56-002A	Water	10/30/2018 07:55	WC_SKALAR 103018A1_36	167499

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**14**	1.0	1	10/30/2018 11:20

Analyst(s): NM

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1810E56
Date Prepared:	10/30/18	**BatchID:**	167499
Date Analyzed:	10/30/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample 1 (10/30/18)	**Sample ID:**	MB/LCS/LCSD-167499

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	40	40	40	100	99	90-110	0.933	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1810E56 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com; tlWY@p
PO:
Project: Resample 1 (10/30/18)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **1 day;**

Date Received: **10/30/2018**
Date Logged: **10/30/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1810E56-001	Tiger Pit-Amber	Water	10/30/2018 07:55	☐	A											
1810E56-002	Tiger Pit-Clear	Water	10/30/2018 07:55	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample 1 (10/30/18) **Work Order:** 1810E56
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 10/30/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810E56-001A	Tiger Pit-Amber	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	10/30/2018 7:55	1 day	None	☐	
1810E56-002A	Tiger Pit-Clear	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL HDPE w/ Na2S2O3	☐	10/30/2018 7:55	1 day	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1810E56 1 of 1

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com, DJH2@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ( )

Project Name: Resample 1 (10/30/18)

Project Location: Tiger Pit, Source Water

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Remarks
Tiger Pit		G	10/30/18	07:55	1	250 ml poly Amb	X			X		X				X					
Tiger Pit		G	10/30/18	07:55	1	250 ml poly	X			X						X					
Source Water		G	~~10/30/18~~		1	250 ml poly	X			X		X				~~X~~					
Source Water		G	~~10/30/18~~		1	250 ml poly	X			X						—					

Relinquished By:	Date:	Time:	Received By:
	10/30/18	17:00	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.5 net
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**10/30/2018 10:00**
Project:	**Resample 1 (10/30/18)**	Date Logged:	**10/30/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1810E56** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 5.5°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☑	No	☐	NA ☐
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Thursday, November 01, 2018

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Ave
Antioch, CA 94509

Re Lab Order: T101182 Collected By: MUSKAN ENVIRONMENTAL
Project ID: RESAMPLE 1 (10/30/18) PO/Contract #:

Dear Angel Espiritu:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, October 30, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

CC: Daryl Sattelberg, PG&E Gateway Generating Station

David Hammond, PG&E Gateway Generating Station

Tim Wisdom, PG&E Gateway Generating Station

Enclosures

Project Manager: Eli N. Greenwald

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(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

Caltest ANALYTICAL LABORATORY
ENVIRONMENTAL ANALYSES

SAMPLE SUMMARY

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T101182001	**TIGER PIT (NAOH PRESERVED)**	Water	10/30/2018 07:55	10/30/2018 09:53
T101182002	**TIGER PIT (UNPRESERVED)**	Water	10/30/2018 07:55	10/30/2018 09:53

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NARRATIVE

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

General Qualifiers and Notes

Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that all test results for wastewater and hazardous waste analyses meet all applicable NELAC requirements; all microbiology and drinking water testing meet applicable ELAP requirements, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Filtrations performed at Caltest for dissolved metals (excluding mercury) and/or pH analysis are not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - Non Detect - indicates analytical result has not been detected.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

E - indicates an estimated analytical result value.

B - indicates the analyte has been detected in the blank associated with the sample.

NC - means not able to be calculated for RPD or Spike Recoveries.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.

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ANALYTICAL RESULTS

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

Lab ID	**T101182001**	Date Collected	10/30/2018 07:55	Matrix	Water
Sample ID	**TIGER PIT (NAOH PRESERVED)**	Date Received	10/30/2018 09:53		

Parameters	Result	Units	R. L.	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11				**Analyzed by:**	BCP	
Cyanide	20	ug/L	3	1			10/30/18 16:12	WCO 14042	

Lab ID	**T101182002**	Date Collected	10/30/2018 07:55	Matrix	Water
Sample ID	**TIGER PIT (UNPRESERVED)**	Date Received	10/30/2018 09:53		

Parameters	Result	Units	R. L.	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11				**Analyzed by:**	BCP	
Cyanide	9.7	ug/L	3	1			10/30/18 16:12	WCO 14042	

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QUALITY CONTROL DATA

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

Analysis Description:	Cyanide, Total Analysis	**QC Batch:**	WCO/14042
Analysis Method:	SM 4500-CN C/E-99/11	**QC Batch Method:**	SM 4500-CN C/E-99/11

METHOD BLANK: 850434

Parameter	Blank Result	Reporting Limit	Units	Qualifiers
Cyanide	ND	3	ug/L	

LABORATORY CONTROL SAMPLE: 850435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% REC Limits	Qualifier
Cyanide	ug/L	20	19.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 850436 850437

Parameter	Units	T101182001 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Cyanide	ug/L	20	40	52.7	58.6	82	97	80-120	11	20	

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

QUALITY CONTROL PARAMETER QUALIFIERS

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: T101182
Project ID: RESAMPLE 1 (10/30/18)

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
T101182001	**TIGER PIT (NAOH**	SM 4500-CN C/E-99/11	WCO/14042		
T101182002	**TIGER PIT (UNPRESERVED)**	SM 4500-CN C/E-99/11	WCO/14042		

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Caltest ANALYTICAL LABORATORY

1885 N. KELLY ROAD NAPA, CA 94558 (707) 258-4000 FAX (707) 226-1001

PAGE 1 OF 1

SAMPLE CHAIN OF CUSTODY

email: abe4@pge.com

PROJECT NAME / PROJECT NUMBER: Resample 1 (10/30/18)

P.O. NUMBER:

LAB ORDER # T10182

CLIENT: PG&E Gateway Generation Station

REPORT ATTN: Angel Espiritu

MAILING ADDRESS: 3225 Wilbur Ave.

STATE: CA ZIP: 94509

BILLING ADDRESS: (Same)

ATTN: Angel Espiritu

PHONE NUMBER: (925)522-7838

FAX PHONE NUMBER:

SAMPLER (PRINT & SIGN NAME): Muskan Environmental Sample

ANALYSES REQUESTED: Cyanide (total) pretreated with chlorine before preserving by SM 4500 CN- ABDI

TURN-AROUND TIME: [ ] STANDARD [X] RUSH

DUE DATE:

CALTEST LAB #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	Cyanide (total) pretreated with chlorine before preserving by SM 4500 CN- ABDI	REMARKS
-1	10/30/18	07:55	Waste AQ Water	500ml poly	NaOH	Tiger Pit		grab	X	Samples sent on ICE
-2	10/30/18	07:55	Waste Water AQ	500ml poly	NaNe preserved	Tiger Pit		grab	X	RUSH

RELINQUISHED BY	DATE/TIME	RECEIVED BY	RELINQUISHED BY	DATE/TIME	RECEIVED BY
L S	10/30/18 09:03	Gle-Imrie	Gle Imrie	10/30/18 09:53	

FOR LAB USE ONLY

Samples: WC ___ MICRO ___ BIO ___ AA ___ SV ___ VOA ___ pH? Y/N TEMP: 0.6 SEALED: Y/N INTACT: Y/N

BD: BIO ___ WC ___ AA ___

CC: AA ___ SV ___ VOA ___

SIL: HP ___ PT ___ QT ___ VOA ___

W/HNO_3 ___ H_2SO_4 ___ NaOH ___

PIL: HNO_3 ___ H_2SO_4 ___ NaOH ___ HCL ___

COMMENTS:

*MATRIX: AQ = Aqueous Nondrinking Water, Digested Metals; FE = Low R.L.s, Aqueous Nondrinking Water, Digested Metals; DW = Drinking Water; SL = Soil Sludge, Solid ; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 ml Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC - Other Type Container

R ___ PR ___ M ___ F ___

10/29/18

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 304625
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Resample 1 (10/30/18)
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGER PIT	304625-001
TIGER PIT	304625-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 10/31/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**304625**
Client:	**Pacific Gas & Electric**
Location:	**Resample 1 (10/30/18)**
Request Date:	**10/30/18**
Samples Received:	**10/30/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 10/30/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):

Low recovery was observed for cyanide in the MS for batch 265009; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

CHAIN OF CUSTODY

ENTHALPY ANALYTICAL
Formerly Curtis & Tompkins Labs
2323 Fifth Street
Berkeley, CA 94710
Phone (510) 486-0900
Fax (510) 486-0532

C&T LOGIN # 304625

Chain of Custody # _____

Project No:

Project Name: Resample 1 (10/30/18)

Project P. O. No:

EDD Format: Report Level ☐ II ☐ III ☐ IV

Turnaround Time: ☒ RUSH _____ ☐ Standard

Sampler: Muskan Environmental Sampli

Report To: Angel Espiritu

Company: PG&E Gateway Generating Station

Telephone: (925) 522-7838

Email: abe4@pge.com

Lab No.	Sample ID.	SAMPLING		MATRIX				# of Containers	CHEMICAL PRESERVATIVE					ANALYTICAL REQUEST: Cyanide (Total) (Must be treated with sodium thiosulfate before preservation) by SM 4500 CN-A&E
		Date Collected	Time Collected	Water	Solid				HCl	H2SO4	HNO3	NaOH	None	
	Tiger Pit	10/30/18	07:55	X				1				X		X
	Tiger Pit	10/30/18	07:55	X				1					X	X

Notes: Sample send on ICE

containers:
500ml poly
500ml poly

SAMPLE RECEIPT
☐ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
DATE: 10/30/18 TIME: 09:30
DATE: 10-30-18 TIME: 10:08
DATE: 10/30 TIME: 1130 pm

RECEIVED BY:
DATE: 10-30-18 TIME: 9:30 AM
DATE: 10/30 TIME: 1008
DATE: 10/30/18 TIME: 11:32

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 304625 Client: PG+E

Date Received: _____ Project: _____

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): 9.9 using IR Gun # ☐ A, or ☑ B

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 10/30/18 By (print) AC (sign) A

Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☑ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)		✓	
Did you check preservatives for all bottles for each sample?		✓	
Did you document your preservative check?	✓		

pH strip lot# HC131225, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# 164374 added to samples JB on/at 10/30/18 12:57

Section 6:

Explanations/Comments: _____

Date Logged in 10/30/18 **By (print)** AC **(sign)** A

Date Labeled 10/30/18 **By (print)** AC **(sign)** A

Enthalpy Sample Preservation for 304625

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	_____
b	[ ]	[ ]	[-]	_____

Analyst: [signature]
Date: 10/30/18

ENTHALPY ANALYTICAL

Detections Summary for 304625

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Resample 1 (10/30/18)

Client Sample ID : TIGER PIT Laboratory Sample ID : 304625-001

No Detections

Client Sample ID : TIGER PIT Laboratory Sample ID : 304625-002

No Detections

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	304625	Location:	Resample 1 (10/30/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265009
Field ID:	TIGER PIT	Sampled:	10/30/18
Matrix:	Water	Received:	10/30/18
Units:	mg/L	Prepared:	10/30/18
Diln Fac:	1.000	Analyzed:	10/31/18

Type	Lab ID	Result	RL	MDL
SAMPLE	304625-001	ND	0.010	0.0031
SAMPLE	304625-002	ND	0.010	0.0031
BLANK	QC953688	ND	0.010	0.0031

ND= Not Detected at or above MDL
RL= Reporting Limit
MDL= Method Detection Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	304625	Location:	Resample 1 (10/30/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265009
Field ID:	ZZZZZZZZZZ	Sampled:	10/24/18
MSS Lab ID:	304494-011	Received:	10/24/18
Matrix:	Water	Prepared:	10/30/18
Units:	mg/L	Analyzed:	10/31/18
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC953689		0.1000	0.08530	85	76-120		
MS	QC953690	<0.01000	0.1000	0.05860	59 *	66-120		
MSD	QC953691		0.1000	0.06700	67	66-120	13	28

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Attachment 4

Analytical Report on Resampling #2

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1811249

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample 2 (11/7/18)

Project Received: 11/07/2018

Analytical Report reviewed & approved for release on 11/08/2018 by:

Yen Cao
Project Manager

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1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample 2 (11/7/18)
WorkOrder: 1811249

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1811249
Date Received:	11/7/18 9:45	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	11/7/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample 2 (11/7/18)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Amber	1811249-001A	Water	11/07/2018 08:06	WC_SKALAR 110718A1_21	167990

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	11/07/2018 11:36

Analyst(s): NM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Clear	1811249-002A	Water	11/07/2018 08:06	WC_SKALAR 110718A1_24	167990

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	11/07/2018 11:47

Analyst(s): NM

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1811249
Date Prepared:	11/7/18	**BatchID:**	167990
Date Analyzed:	11/7/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample 2 (11/7/18)	**Sample ID:**	MB/LCS/LCSD-167990 1811249-001AMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	39	40	40	98	99	90-110	1.36	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	1	41	42	40	ND	102	106	80-120	4.27	20

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1811249 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com; tlWY@p
PO:
Project: Resample 2 (11/7/18)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **1 day;**

Date Received: **11/07/2018**
Date Logged: **11/07/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1811249-001	Tiger Pit-Amber	Water	11/7/2018 08:06	☐	A											
1811249-002	Tiger Pit-Clear	Water	11/7/2018 08:06	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample 2 (11/7/18) **Work Order:** 1811249
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 11/7/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1811249-001A	Tiger Pit-Amber	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	11/7/2018 8:06	1 day		☐	
1811249-002A	Tiger Pit-Clear	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL HDPE w/ Na2S2O3	☐	11/7/2018 8:06	1 day	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1811249

RUSH

Page 1 of 1

McCAMPBELL ANALYTICAL, INC.

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PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com, DJH2@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ( )

Project Name: Resample 2 (11/7/18)

Project Location: Tiger Pit, Source Water

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Remarks
Tiger Pit		G	11/7/18	08:06	1	250 ml poly Amb	X			X		X				X					
Tiger Pit		G	11/7/18	08:06	1	250 ml poly	X			X						X					
Source Water		G	11/7/18		1	250 ml poly	X			X		X				X					
Source Water		G	11/7/18		1	250 ml poly	X			X						x					

Relinquished By:	Date:	Time:	Received By:
	11/7/18	09:45	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.0 wet

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**11/7/2018 09:45**
Project:	**Resample 2 (11/7/18)**	Date Logged:	**11/7/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1811249** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 5.6°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Friday, November 09, 2018

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Ave
Antioch, CA 94509

Re Lab Order: T110273 Collected By: MUSKAN ENV.
Project ID: RESAMPLE 2 (11/7/18) PO/Contract #:

Dear Angel Espiritu:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 07, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

CC: Daryl Sattelberg, PG&E Gateway Generating Station

David Hammond, PG&E Gateway Generating Station

Tim Wisdom, PG&E Gateway Generating Station

Enclosures

Project Manager: Eli N. Greenwald

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SAMPLE SUMMARY

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T110273001	**TIGER PIT (NAOH PRESERVED)**	Water	11/07/2018 08:06	11/07/2018 09:58
T110273002	**TIGER PIT (UNPRESERVED)**	Water	11/07/2018 08:06	11/07/2018 09:58

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NARRATIVE

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

General Qualifiers and Notes

Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that all test results for wastewater and hazardous waste analyses meet all applicable NELAC requirements; all microbiology and drinking water testing meet applicable ELAP requirements, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Filtrations performed at Caltest for dissolved metals (excluding mercury) and/or pH analysis are not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - Non Detect - indicates analytical result has not been detected.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

E - indicates an estimated analytical result value.

B - indicates the analyte has been detected in the blank associated with the sample.

NC - means not able to be calculated for RPD or Spike Recoveries.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.

Qualifiers and Compound Notes

1	Nitrate and/or Nitrite was detected in the sample. Sample was treated with Sulfamic Acid prior to analysis.
2	The sample was received unpreserved. At the time of the analysis, the measured pH of the sample was 10.

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ANALYTICAL RESULTS

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID **T110273001** Date Collected 11/7/2018 08:06 Matrix Water
Sample ID **TIGER PIT (NAOH PRESERVED)** Date Received 11/7/2018 09:58

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11					**Analyzed by:**	BCP	
Cyanide	J2.5	ug/L	3	0.90	1			11/07/18 16:47	WCO 14067	1

Lab ID **T110273002** Date Collected 11/7/2018 08:06 Matrix Water
Sample ID **TIGER PIT (UNPRESERVED)** Date Received 11/7/2018 09:58

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11					**Analyzed by:**	BCP	
Cyanide	J1.1	ug/L	3	0.90	1			11/07/18 16:47	WCO 14067	1,2

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QUALITY CONTROL DATA

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Analysis Description:	Cyanide, Total Analysis	**QC Batch:**	WCO/14067
Analysis Method:	SM 4500-CN C/E-99/11	**QC Batch Method:**	SM 4500-CN C/E-99/11

METHOD BLANK: 851944

Parameter	Blank Result	Reporting Limit	MDL	Units	Qualifiers
Cyanide	ND	3	0.9	ug/L	

LABORATORY CONTROL SAMPLE: 851945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% REC Limits	Qualifier
Cyanide	ug/L	20	20.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851946 851947

Parameter	Units	T110110002 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Cyanide	ug/L	1.6	40	40.9	42.9	98	103	80-120	4.8	20	1

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

QUALITY CONTROL PARAMETER QUALIFIERS

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

1 Nitrate and/or Nitrite was detected in the sample. Sample was treated with Sulfamic Acid prior to analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
T110273001	**TIGER PIT (NAOH**	SM 4500-CN C/E-99/11	WCO/14067		
T110273002	**TIGER PIT (UNPRESERVED)**	SM 4500-CN C/E-99/11	WCO/14067		

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Caltest ANALYTICAL LABORATORY

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SAMPLE CHAIN OF CUSTODY

PAGE 1 OF 1

PROJECT NAME / PROJECT NUMBER: Resample 2 (11/7/18)

P.O. NUMBER:

LAB ORDER # T11027.3

CLIENT: PG&E Gateway Generation Station

REPORT ATTN: Angel Espiritu / email: abe4@pge.com

MAILING ADDRESS: 3225 Niber Ave.

STATE: CA ZIP: 94509

BILLING ADDRESS: (Same)

ATTN:

PHONE NUMBER: (925) 522-7838

FAX PHONE NUMBER:

SAMPLER (PRINT & SIGN NAME): Muskan Environmental Sampling

TURN-AROUND TIME: ☐ STANDARD ☒ RUSH

DUE DATE:

CALTEST LAB #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	Cyanide (total): pretreated with Sodium thiosulfate before preserving by SM 4500 CN- A,B,C,E	ANALYSES REQUESTED	REMARKS
-1	11/7/18	08:06	AQ waste water	500 ml poly	NaOH	Tiger Pit		Grab	X		samples sent on ICE
-2	11/7/18	08:06	AQ waste water	500 ml poly	None preserved	Tiger Pit		Grab	X		

RUSH

RELINQUISHED BY	DATE/TIME	RECEIVED BY	RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	11/7/18 08:47	[signature]	[signature]	11/7/18 0958	[signature]

FOR LAB USE ONLY

Samples: WC X MICRO ___ BIO ___ AA ___ SV ___ VOA ___ pH? Y/N TEMP: 2.4 SEALED: Y/N INTACT: Y/N

BD: BIO ___ WC ___ AA ___

CC: AA ___ SV ___ VOA ___

SIL: HP ___ PT ___ QT ___ VOA ___

W/HNO3 ___ H2SO4 ___ NaOH ___

PIL: HNO3 ___ H2SO4 ___ NaOH ___ HCL ___

COMMENTS:

*MATRIX: AQ = Aqueous Nondrinking Water, Digested Metals; FE = Low R.L.s, Aqueous Nondrinking Water, Digested Metals; DW = Drinking Water; SL = Soil Sludge, Solid ; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 ml Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC - Other Type Container

R ___ PR ___ M ___ F ___

10/23/18

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 304800
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Resample 2 (11/7/18)
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGER PIT	304800-001
TIGER PIT	304800-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/08/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**304800**
Client:	**Pacific Gas & Electric**
Location:	**Resample 2 (11/7/18)**
Request Date:	**11/07/18**
Samples Received:	**11/07/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 11/07/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):

Low recovery was observed for cyanide in the MS for batch 265268; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

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Formerly Curtis & Tompkins
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # :

C&T LOGIN # 304800

Project No:

Project Name: Resample 2 (11/7/18)

Rpt Level: II

Turnaround Time: ~~Standard~~ Rush

Sampler: MusKan Environmental Sampling

Report To: Angel Espiritu

Company : PG&E Gateway Generating Station

Telephone: (925) 522-7838

Email: abe4@pge.com

Lab No.	Sample ID.	Sampling		Matrix				Chemical Preservative					Analytical Request
		Date	Time	Water	Soil	Other	# of Container	HCl	H_2SO_4	HNO_3	NaOH	None	Cyanide (total) (preferred with sodium thiosulfate before preserving) by SM 4500 CN-A,B,C,E
	Tiger Pit	11/7/18	08:06	X			1				X		X
	Tiger Pit	11/7/18	08:06	X			1					X	X

Notes: Sample Sent On ice

containers:
500 ml poly
500 ml poly

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:		RECEIVED BY:	
	11/7/18 08:50 DATE/TIME		11/7/18 - 8:50 AM DATE/TIME
	11/7/18 - 9:47 DATE/TIME		11-7 9CL DATE/TIME
	11-7 1051 DATE/TIME		11/7/18 10:51 DATE/TIME

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 304800 Client: PGE0

Date Received: 11/7/18 Project: _____

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☑ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): 14.6 using IR Gun # ☑ A, or ☐ B

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 11/7/18 By (print) AL (sign) _____

Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☑ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☑ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)	✓		
Did you check preservatives for all bottles for each sample?		✓	
Did you document your preservative check?	✓		

pH strip lot# HC131225, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 11/7/18 **By (print)** AL **(sign)** _____

Date Labeled 11/7/18 **By (print)** AL **(sign)** _____

Enthalpy Sample Preservation for 304800

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[✓]	_____
-002a	[ ]	[ ]	[ ]	_____

Analyst: [signature]
Date: 11/7/18

Page 1 of 1

ENTHALPY ANALYTICAL

Detections Summary for 304800

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Resample 2 (11/7/18)

Client Sample ID : TIGER PIT Laboratory Sample ID : 304800-001

No Detections

Client Sample ID : TIGER PIT Laboratory Sample ID : 304800-002

No Detections

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	304800	Location:	Resample 2 (11/7/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265268
Field ID:	TIGER PIT	Sampled:	11/07/18
Matrix:	Water	Received:	11/07/18
Units:	mg/L	Prepared:	11/07/18
Diln Fac:	1.000	Analyzed:	11/08/18

Type	Lab ID	Result	RL
SAMPLE	304800-001	ND	0.010
SAMPLE	304800-002	ND	0.010
BLANK	QC954755	ND	0.010

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	304800	Location:	Resample 2 (11/7/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265268
Field ID:	ZZZZZZZZZZ	Sampled:	10/29/18
MSS Lab ID:	304646-001	Received:	10/30/18
Matrix:	Water	Prepared:	11/07/18
Units:	mg/L	Analyzed:	11/08/18
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC954756		0.2000	0.1613	81	76-120		
MS	QC954757	<0.01000	0.2000	0.1277	64 *	66-120		
MSD	QC954758		0.2000	0.1492	75	66-120	16	28

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Attachment 5

Analytical Report on Resampling #3

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1811249

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Resample 2 (11/7/18)

Project Received: 11/07/2018

Analytical Report reviewed & approved for release on 11/08/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Resample 2 (11/7/18)
WorkOrder: 1811249

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1811249
Date Received:	11/7/18 9:45	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	11/7/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Resample 2 (11/7/18)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Amber	1811249-001A	Water	11/07/2018 08:06	WC_SKALAR 110718A1_21	167990

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	11/07/2018 11:36

Analyst(s): NM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tiger Pit-Clear	1811249-002A	Water	11/07/2018 08:06	WC_SKALAR 110718A1_24	167990

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	11/07/2018 11:47

Analyst(s): NM

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1811249
Date Prepared:	11/7/18	**BatchID:**	167990
Date Analyzed:	11/7/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Resample 2 (11/7/18)	**Sample ID:**	MB/LCS/LCSD-167990 1811249-001AMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	RL			
Total Cyanide	ND	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	39	40	40	98	99	90-110	1.36	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	1	41	42	40	ND	102	106	80-120	4.27	20

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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1811249 **ClientCode: PGEA**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509
(925) 459-7212 FAX:

Email: abe4@pge.com
cc/3rd Party: A1HE@pge.com; J5Ld@pge.com; tlWY@p
PO:
Project: Resample 2 (11/7/18)

Bill to:
Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Avenue
Antioch, CA 94509

Requested TAT: **1 day;**

Date Received: **11/07/2018**
Date Logged: **11/07/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1811249-001	Tiger Pit-Amber	Water	11/7/2018 08:06	☐	A											
1811249-002	Tiger Pit-Clear	Water	11/7/2018 08:06	☐	A											

Test Legend:

1	CN_SM4500CE_W	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: PG&E GATEWAY GENERATING STATION **Project:** Resample 2 (11/7/18) **Work Order:** 1811249
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 11/7/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1811249-001A	Tiger Pit-Amber	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	11/7/2018 8:06	1 day		☐	
1811249-002A	Tiger Pit-Clear	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL HDPE w/ Na2S2O3	☐	11/7/2018 8:06	1 day	None	☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1811249

RUSH

Page 1 of 1

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☒ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: Angel Espiritu Bill To: PG&E Gateway

Company: PG&E Gateway Generating Station

E-Mail: abe4@pge.com, A1HE@pge.com, J5Ld@pge.com, tlWY@pge.com, DJH2@pge.com

Tel: (925) 522-7838, (510) 861-1597 (Cell) Fax: ( )

Project Name: Resample 2 (11/7/18)

Project Location: Tiger Pit, Source Water

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID	LOCATION / Field Point Name	Sample Type Composite /Grab	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	Matrix: Waste Water	Matrix: Sewer Water	METHOD PRESERVED: None	ICE	H_2SO_4	NaOH	HCL	HNO_3	Other	Analysis Request: Cyanide (TOTAL) (Pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)	126 Priority Pollutants (see Appendix B analyze only listed compounds)	Remarks
Tiger Pit		G	11/7/18	08:06	1	250 ml poly Amb	X			X		X				X					
Tiger Pit		G	11/7/18	08:06	1	250 ml poly	X			X						X					
Source Water		G	11/7/18		1	250 ml poly	X			X		X				X					
Source Water		G	11/7/18		1	250 ml poly	X			X						x					

Relinquished By:	Date:	Time:	Received By:
	11/7/18	09:45	
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.0 wet

GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____

COMMENTS:
TTO (EPA 608), TTO (EPA 624), TTO (EPA 625) see ATTACHED Appendix A and analyze only listed compounds

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**11/7/2018 09:45**
Project:	**Resample 2 (11/7/18)**	Date Logged:	**11/7/2018**
		Received by:	Jena Alfaro
WorkOrder №:	**1811249** Matrix: Water	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 5.6°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments:

Friday, November 09, 2018

Angel Espiritu
PG&E Gateway Generating Station
3225 Wilbur Ave
Antioch, CA 94509

Re Lab Order: T110273 Collected By: MUSKAN ENV.
Project ID: RESAMPLE 2 (11/7/18) PO/Contract #:

Dear Angel Espiritu:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, November 07, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

CC: Daryl Sattelberg, PG&E Gateway Generating Station

David Hammond, PG&E Gateway Generating Station

Tim Wisdom, PG&E Gateway Generating Station

Enclosures

Project Manager: Eli N. Greenwald

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(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

SAMPLE SUMMARY

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T110273001	**TIGER PIT (NAOH PRESERVED)**	Water	11/07/2018 08:06	11/07/2018 09:58
T110273002	**TIGER PIT (UNPRESERVED)**	Water	11/07/2018 08:06	11/07/2018 09:58

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NARRATIVE

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

General Qualifiers and Notes

Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that all test results for wastewater and hazardous waste analyses meet all applicable NELAC requirements; all microbiology and drinking water testing meet applicable ELAP requirements, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Filtrations performed at Caltest for dissolved metals (excluding mercury) and/or pH analysis are not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - Non Detect - indicates analytical result has not been detected.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

E - indicates an estimated analytical result value.

B - indicates the analyte has been detected in the blank associated with the sample.

NC - means not able to be calculated for RPD or Spike Recoveries.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.

Qualifiers and Compound Notes

1	Nitrate and/or Nitrite was detected in the sample. Sample was treated with Sulfamic Acid prior to analysis.
2	The sample was received unpreserved. At the time of the analysis, the measured pH of the sample was 10.

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ANALYTICAL RESULTS

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID **T110273001** Date Collected 11/7/2018 08:06 Matrix Water
Sample ID **TIGER PIT (NAOH PRESERVED)** Date Received 11/7/2018 09:58

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11					**Analyzed by:**	BCP	
Cyanide	J2.5	ug/L	3	0.90	1			11/07/18 16:47	WCO 14067	1

Lab ID **T110273002** Date Collected 11/7/2018 08:06 Matrix Water
Sample ID **TIGER PIT (UNPRESERVED)** Date Received 11/7/2018 09:58

Parameters	Result	Units	R. L.	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Cyanide, Total Analysis	**Analytical Method:**		SM 4500-CN C/E-99/11					**Analyzed by:**	BCP	
Cyanide	J1.1	ug/L	3	0.90	1			11/07/18 16:47	WCO 14067	1,2

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QUALITY CONTROL DATA

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Analysis Description:	Cyanide, Total Analysis	**QC Batch:**	WCO/14067
Analysis Method:	SM 4500-CN C/E-99/11	**QC Batch Method:**	SM 4500-CN C/E-99/11

METHOD BLANK: 851944

Parameter	Blank Result	Reporting Limit	MDL	Units	Qualifiers
Cyanide	ND	3	0.9	ug/L	

LABORATORY CONTROL SAMPLE: 851945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% REC Limits	Qualifier
Cyanide	ug/L	20	20.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851946 851947

Parameter	Units	T110110002 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Cyanide	ug/L	1.6	40	40.9	42.9	98	103	80-120	4.8	20	1

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1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

QUALITY CONTROL DATA QUALIFIERS

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

QUALITY CONTROL PARAMETER QUALIFIERS

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

1 Nitrate and/or Nitrite was detected in the sample. Sample was treated with Sulfamic Acid prior to analysis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: T110273
Project ID: RESAMPLE 2 (11/7/18)

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
T110273001	**TIGER PIT (NAOH**	SM 4500-CN C/E-99/11	WCO/14067		
T110273002	**TIGER PIT (UNPRESERVED)**	SM 4500-CN C/E-99/11	WCO/14067		

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Caltest ANALYTICAL LABORATORY

885 N. KELLY ROAD NAPA, CA 94558 (707) 258-4000 FAX (707) 226-1001

PAGE 1 OF 1

SAMPLE CHAIN OF CUSTODY

PROJECT NAME / PROJECT NUMBER: Resample 2 (11/7/18)

P.O. NUMBER:

LAB ORDER # T11027.3

CLIENT: PG&E Gateway Generation Station

REPORT ATTN: Angel Espiritu / email: abey@pge.com

MAILING ADDRESS: 3225 Niber Ave. STATE: CA ZIP: 94509

BILLING ADDRESS: (Same) ATTN:

PHONE NUMBER: (925) 522-7838 FAX PHONE NUMBER:

SAMPLER (PRINT & SIGN NAME): Muskan Environmental Sampling

TURN-AROUND TIME: ☐ STANDARD ☒ RUSH

DUE DATE:

CALTEST LAB #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	ANALYSES REQUESTED: Cyanide (total), pretreated with sodium hypochlorite before preserving by SM 4500 CN- G/OCE	REMARKS
-1	11/7/18	08:06	AQ waste water	500 ml poly	NaOH	Tiger Pit		Grab	X	samples sent on ICE
-2	11/7/18	08:06	AQ waste water	500 ml poly	None preserved	Tiger Pit		Grab	X	

RUSH

RELINQUISHED BY	DATE/TIME	RECEIVED BY	RELINQUISHED BY	DATE/TIME	RECEIVED BY
	11/7/18 08:47			11/7/18 0958	

FOR LAB USE ONLY

Samples: WC X MICRO ___ BIO ___ AA ___ SV ___ VOA ___ pH? Y/N TEMP: 2.4 SEALED: O Y/N INTACT: O Y/N

BD: BIO ___ WC ___ AA ___

CC: AA ___ SV ___ VOA ___

SIL: HP ___ PT ___ QT ___ VOA ___

W/HNO$_3$ ___ H$_2$SO$_4$ ___ NaOH ___

PIL: HNO$_3$ ___ H$_2$SO$_4$ ___ NaOH ___ HCL ___

COMMENTS:

*MATRIX: AQ = Aqueous Nondrinking Water, Digested Metals; FE = Low R.L.s, Aqueous Nondrinking Water, Digested Metals; DW = Drinking Water; SL = Soil Sludge, Solid ; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; AHL = 500 ml Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC - Other Type Container

R ___ PR ___ M ___ F ___

10/29/18

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 304800
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Resample 2 (11/7/18)
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGER PIT	304800-001
TIGER PIT	304800-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 11/08/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**304800**
Client:	**Pacific Gas & Electric**
Location:	**Resample 2 (11/7/18)**
Request Date:	**11/07/18**
Samples Received:	**11/07/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 11/07/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):

Low recovery was observed for cyanide in the MS for batch 265268; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Enthalpy Analytical
Formerly Curtis & Tompkins
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # :

C&T LOGIN # 304800

Project No:

Project Name: Resample 2 (11/7/18)

Rpt Level: II

Turnaround Time: ~~Standard~~ Rush

Sampler: MusKan Environmental Sampling

Report To: Angel Espiritu

Company : PG&E Gateway Generating Station

Telephone: (925) 522-7838

Email: abe4@pge.com

Lab No.	Sample ID.	Sampling		Matrix				Chemical Preservative					Analytical Request
		Date	Time	Water	Soil	Other	# of Container	HCl	H_2SO_4	HNO_3	NaOH	None	Cyanide (total) (preferred with sodium thiosulfate before preserving) by SM 4500 CN-A,B,C,E
	Tiger Pit	11/7/18	08:06	X			1				X		X
	Tiger Pit	11/7/18	08:06	X			1					X	X

Notes: Sample Sent On ice

containers:
500 ml poly
500 ml poly

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:		RECEIVED BY:	
	11/7/18 08:50 DATE/TIME		11/7/18 - 8:50 AM DATE/TIME
	11/7/18 - 9:47 DATE/TIME		11-7 9CL DATE/TIME
	11-7 1051 DATE/TIME		11/7/18 10:51 DATE/TIME

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 304800 Client: PGE0

Date Received: 11/7/18 Project: _____

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☑ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): 14.6 using IR Gun # ☑ A, or ☐ B

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 11/7/18 By (print) AL (sign) _____

Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☑ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☑ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)	✓		
Did you check preservatives for all bottles for each sample?		✓	
Did you document your preservative check?	✓		

pH strip lot# HC131225, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 11/7/18 **By (print)** AL **(sign)** _____

Date Labeled 11/7/18 **By (print)** AL **(sign)** _____

Enthalpy Sample Preservation for 304800

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[✓]	_____
-002a	[ ]	[ ]	[ ]	_____

Analyst: [signature]
Date: 11/7/18

Page 1 of 1

ENTHALPY ANALYTICAL

Detections Summary for 304800

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Resample 2 (11/7/18)

Client Sample ID : TIGER PIT Laboratory Sample ID : 304800-001

No Detections

Client Sample ID : TIGER PIT Laboratory Sample ID : 304800-002

No Detections

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	304800	Location:	Resample 2 (11/7/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265268
Field ID:	TIGER PIT	Sampled:	11/07/18
Matrix:	Water	Received:	11/07/18
Units:	mg/L	Prepared:	11/07/18
Diln Fac:	1.000	Analyzed:	11/08/18

Type	Lab ID	Result	RL
SAMPLE	304800-001	ND	0.010
SAMPLE	304800-002	ND	0.010
BLANK	QC954755	ND	0.010

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	304800	Location:	Resample 2 (11/7/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265268
Field ID:	ZZZZZZZZZZ	Sampled:	10/29/18
MSS Lab ID:	304646-001	Received:	10/30/18
Matrix:	Water	Prepared:	11/07/18
Units:	mg/L	Analyzed:	11/08/18
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC954756		0.2000	0.1613	81	76-120		
MS	QC954757	<0.01000	0.2000	0.1277	64 *	66-120		
MSD	QC954758		0.2000	0.1492	75	66-120	16	28

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Attachment 6

Analytical Report on Resampling #4

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 305544
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Tiger Pit
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGERT PIT	305544-001
TIGERT PIT	305544-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/06/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**305544**
Client:	**Pacific Gas & Electric**
Location:	**Tiger Pit**
Request Date:	**12/04/18**
Samples Received:	**12/04/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 12/04/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):
No analytical problems were encountered.

Enthalpy Analytical
Formerly Curtis & Tompkins
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # :

C&T LOGIN # 3055544

Project No:

Project Name: Resample 4 (12/4/18)

Rpt Level: II

Turnaround Time: ~~Standard~~ RUSH

Sampler: Nuskan Environmental Sampling

Report To: Angel Espiritu

Company: PG&E Gateway Generating Station

Telephone: (925) 522-7838

Email: abe4@pge.com

Lab No.	Sample ID.	Sampling Date	Sampling Time	Matrix: Water	Soil	Other	# of Container	Chemical Preservative: HCl	H_2SO_4	HNO_3	NaOH	None	Cyanide (total) (pretreated with sodium thiosulfate before preserving) by SM 4500 CN-ABCE
	Tiger Pit	12/4/18	08:35	X			1				X		X
	Tiger Pit	12/4/18	08:35	X			1					X	X

Notes: Sample Sent on ICE

Container
Poly 250ml
Poly 250ml

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
	12/4/18 09:50		12-4-18 9:50
	DATE/TIME		DATE/TIME
	DATE/TIME		DATE/TIME

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 305144 Client: PG+E Gateway Generating

Date Received: 12/4/18 Project: _____

ENTHALPY ANALYTICAL

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☑ No (skip Section 3 below)

If no cooler Sample Temp (°C): 3.1 using IR Gun # ☐ A, or ☐ B

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12/4/18 By (print) AC (sign) [signature]

Shipping Info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☑ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)	✓		
Did you check preservatives for all bottles for each sample?		✓	
Did you document your preservative check?	✓		

pH strip lot# HC131225, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____	added to samples _____	on/at	_____
☐ HCL lot# _____	added to samples _____	on/at	_____
☐ HNO3 lot# _____	added to samples _____	on/at	_____
☐ NaOH lot# _____	added to samples _____	on/at	_____

Section 6:

Explanations/Comments: _____

Date Logged in 12/4/18 **By (print)** AC **(sign)** [signature]

Date Labeled 12/4/18 **By (print)** AC **(sign)** [signature]

ENTHALPY ANALYTICAL

Detections Summary for 305544

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Tiger Pit

Client Sample ID : TIGERT PIT Laboratory Sample ID : 305544-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Cyanide	0.030		0.010	mg/L	TOTAL	1.000	SM4500CN-C,E	METHOD

Client Sample ID : TIGERT PIT Laboratory Sample ID : 305544-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Cyanide	0.032		0.010	mg/L	TOTAL	1.000	SM4500CN-C,E	METHOD

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	305544	Location:	Tiger Pit
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	265928
Field ID:	TIGERT PIT	Sampled:	12/04/18
Matrix:	Water	Received:	12/04/18
Units:	mg/L	Analyzed:	12/05/18
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	305544-001	0.030	0.010
SAMPLE	305544-002	0.032	0.010
BLANK	QC957389	ND	0.010

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	305544	Location:	Tiger Pit
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	TIGERT PIT	Batch#:	265928
MSS Lab ID:	305544-001	Sampled:	12/04/18
Matrix:	Water	Received:	12/04/18
Units:	mg/L	Analyzed:	12/05/18

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC957390		0.2000	0.1831	92	76-120		
MS	QC957391	0.02970	0.2000	0.2115	91	66-120		
MSD	QC957392		0.2000	0.2052	88	66-120	3	28

RPD= Relative Percent Difference

Attachment 7

Analytical Report on Resampling #5

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 305713
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Resample 5 (12/11/18)
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGER PIT	305713-001
TIGER PIT	305713-002

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Signature: _____ Date: 12/12/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**305713**
Client:	**Pacific Gas & Electric**
Location:	**Resample 5 (12/11/18)**
Request Date:	**12/11/18**
Samples Received:	**12/11/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 12/11/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):
No analytical problems were encountered.

Enthalpy Analytical
Formerly Curtis & Tompkins
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # :

C&T LOGIN # 305713

Project No:

Project Name: Resample 5 (12/11/18)

Rpt Level: II

Turnaround Time: ~~Standard~~ RUSH

Sampler: Muskan Environmental Sampling

Report To: Angel Espiritu

Company : PG&E Gateway Generation Station

Telephone: (925) 522-7838

Email: abe4@pge.com

Lab No.	Sample ID.	Sampling Date	Sampling Time	Matrix: Water	Soil	Other	# of Container	Chemical Preservative: HCl	H_2SO_4	HNO_3	NaOH	None	Analytical Request: Cyanide Total (pretreated with sodium thiosulfate before preserving) by SM 4500 CN-A&E
	Tiger Pit	12/11/18	08:36	X			1				X		X
	Tiger Pit	12/11/18	08:36	X			1					X	X

Notes: Sample sent on ICE

Container
Poly 250ml
Poly 250ml

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:

12/11/18 10:05 DATE/TIME

DATE/TIME

DATE/TIME

RECEIVED BY:

Pat Gonzales 12/11/18 10:05 DATE/TIME

DATE/TIME

DATE/TIME

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 305713 Client: PG&E

Date Received: 12-11-18 Project: Resample 5 (12/11/18)

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): 4.1 using IR Gun # ☐ A, or ☐ B

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12-11-18 By (print) SH (sign) [signature]

Shipping info (if applicable) _____

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☒ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm absent in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)	✓		
Did you check preservatives for all bottles for each sample?	✓		
Did you document your preservative check?	✓		

pH strip lot# HC547770, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12-11-18 **By (print)** SH **(sign)** [signature]

Date Labeled 12-11-18 **By (print)** SH **(sign)** [signature]

Enthalpy Sample Preservation for 305713

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[✓]	_____
-002a	[ ]	[ ]	[ ]	_____

Analyst: SLA
Date: 12-10-18

ENTHALPY ANALYTICAL

Detections Summary for 305713

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Resample 5 (12/11/18)

Client Sample ID : TIGER PIT Laboratory Sample ID : 305713-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Cyanide	0.013		0.010	mg/L	TOTAL	1.000	SM4500CN-C,E	METHOD

Client Sample ID : TIGER PIT Laboratory Sample ID : 305713-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Cyanide	0.018		0.010	mg/L	TOTAL	1.000	SM4500CN-C,E	METHOD

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	305713	Location:	Resample 5 (12/11/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	266103
Field ID:	TIGER PIT	Sampled:	12/11/18
Matrix:	Water	Received:	12/11/18
Units:	mg/L	Analyzed:	12/12/18
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	305713-001	0.013	0.010
SAMPLE	305713-002	0.018	0.010
BLANK	QC958095	ND	0.010

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	305713	Location:	Resample 5 (12/11/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	TIGER PIT	Batch#:	266103
MSS Lab ID:	305713-001	Sampled:	12/11/18
Matrix:	Water	Received:	12/11/18
Units:	mg/L	Analyzed:	12/12/18

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC958096		0.2000	0.1850	93	76-120		
MS	QC958097	0.01250	0.2000	0.1922	90	66-120		
MSD	QC958098		0.2000	0.1538	71	66-120	22	28

RPD= Relative Percent Difference

Attachment 8

Analytical Report on Resampling #6

ENTHALPY

ANALYTICAL

Enthalpy Analytical

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 305805
ANALYTICAL REPORT

Pacific Gas & Electric	Project : STANDARD
4801 Oakport Street	Location : Resample 6 (12/14/18)
Oakland, CA 94601	Level : II

Sample ID	Lab ID
TIGER PIT-P	305805-001
TIGER PIT-UP	305805-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 12/17/2018

Will Rice
Project Manager
will.rice@enthalpy.com
(510) 204-2221 Ext 13102

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**305805**
Client:	**Pacific Gas & Electric**
Location:	**Resample 6 (12/14/18)**
Request Date:	**12/14/18**
Samples Received:	**12/14/18**

This data package contains sample and QC results for two water samples, requested for the above referenced project on 12/14/18. The samples were received cold and intact.

Total Cyanide (SM4500CN-C,E):
No analytical problems were encountered.

Enthalpy Analytical
Formerly Curtis & Tompkins
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # :

C&T LOGIN # 305805

Project No:
Project Name: Resample 6 (12/14/18)
Rpt Level: II
Turnaround Time: ~~Standard~~ RUSH

Sampler: Muskan Environmental Sampling
Report To: Angel Espiritu
Company : PG&E Gateway Generation Station
Telephone: (925) 522-7838
Email: abe4@pge.com

Lab No.	Sample ID.	Sampling: Date	Sampling: Time	Matrix: Water	Matrix: Soil	Matrix: Other	# of Container	Chemical Preservative: HCl	H_2SO_4	HNO_3	NaOH	None	Analytical Request: Cyanide total (pretreat with Sodium thiosulfate before processing) by SM4500 CN-A&E
	Tiger Pit - P	12/14/18	08:35	X			1				X		X
	Tiger Pit - DUP	12/14/18	0835	X			1					X	X

Notes: Sample sent on ICE

Container
poly 250ml
poly 250ml

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:
12/14/18 09:48 DATE/TIME
DATE/TIME
DATE/TIME

RECEIVED BY:
Pat Mongahy 12/14/18 09:48 AM DATE/TIME
DATE/TIME
DATE/TIME

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 305805 Client: PG&E Gateway

Date Received: 12/14/18 Project: Resample 6 (12/14/18)

ENTHALPY ANALYTICAL

Section 2: Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 4.2 using IR Gun # ☒ A, or ☐ B

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened _____ By (print)_____ (sign)_____

Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (If other, describe)_____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID:_____, or IR Gun # ☐ A ☐ B

Cooler Temp (°C): #1:_____, #2:_____, #3:_____, #4:_____, #5:_____, #6:_____, #7:_____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		
Were Method 5035 sampling containers present?		X	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	X		
Are there any missing / extra samples?		X	
Are samples in the appropriate containers for indicated tests?	X		
Are sample labels present, in good condition and complete?	X		
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		
Was sufficient amount of sample sent for tests requested?	X		
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?			X
Are bubbles > 6mm absent in VOA samples?			X
Was the client contacted concerning this sample delivery?		X	
If YES, who was called? By Date:			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)	X		
Did you check preservatives for all bottles for each sample?	X		
Did you document your preservative check?	X		

pH strip lot# HG547700, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12/14/18 **By (print)** VQ **(sign)** VQ

Date Labeled ↓ **By (print)** ↓ **(sign)** ↓

ENTHALPY ANALYTICAL

Detections Summary for 305805

Results for any subcontracted analyses are not included in this summary.

Client : Pacific Gas & Electric
Project : STANDARD
Location : Resample 6 (12/14/18)

Client Sample ID : TIGER PIT-P Laboratory Sample ID : 305805-001

No Detections

Client Sample ID : TIGER PIT-UP Laboratory Sample ID : 305805-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Cyanide	0.020		0.010	mg/L	TOTAL	1.000	SM4500CN-C,E	METHOD

ENTHALPY ANALYTICAL

Total Cyanide

Lab #:	305805	Location:	Resample 6 (12/14/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Sampled:	12/14/18
Matrix:	Water	Received:	12/14/18
Units:	mg/L	Prepared:	12/14/18
Diln Fac:	1.000	Analyzed:	12/17/18
Batch#:	266229		

Field ID	Type	Lab ID	Result	RL
TIGER PIT-P	SAMPLE	305805-001	ND	0.010
TIGER PIT-UP	SAMPLE	305805-002	0.020	0.010
	BLANK	QC958630	ND	0.010

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Cyanide

Lab #:	305805	Location:	Resample 6 (12/14/18)
Client:	Pacific Gas & Electric	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM4500CN-C,E
Analyte:	Cyanide	Batch#:	266229
Field ID:	TIGER PIT-P	Sampled:	12/14/18
MSS Lab ID:	305805-001	Received:	12/14/18
Matrix:	Water	Prepared:	12/14/18
Units:	mg/L	Analyzed:	12/17/18
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC958631		0.2000	0.1687	84	76-120		
MS	QC958632	<0.01000	0.2000	0.1396	70	66-120		
MSD	QC958633		0.2000	0.1404	70	66-120	1	28

RPD= Relative Percent Difference

Attachment 9

Analytical Report on Resampling #7

ENTHALPY

ANALYTICAL