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Filer:	Angel B. Espiritu
Organization:	PG&E Gateway Generating Station
Submitter Role:	Applicant Representative
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Pacific Gas and Electric Company®

Mailing Address:
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Gateway Generating Station
3225 Wilbur Ave.
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(925) 522-7801

March 20, 2020

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 of January 2019 to December 2019

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 of January 2019 to December 2019.

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 summary facility emissions and 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

Attachments: a/s

Pacific Gas and Electric Company®

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

Annual Compliance Report No. 11

(Reporting Period: January 2019 - December 2019)

March 30, 2020

Table of Contents

Annual Compliance Report

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 2019 to December 2019 (RY 2019).

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 2019 to December 2019, 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 2019 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 53.45 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 10, 2019, July 12, 2019, October 7, 2019 and January 9, 2020 to cover the reporting year (RY) 2019. Attached in **Exhibit 4b** are communications with the DD related with approval of Criteria Pollutant Monitoring Waiver. Also attached in **Exhibit 4c** 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.

4.24 Response to a project change questionnaire for work to be conducted by PG&E Gas Department on natural gas pipelines located within the site parcel boundaries of Gateway Generating Station, RE: Removal and Replacement of Underground Natural Gas Pipelines at Gateway Generating Station. The questionnaire was submitted to CEC on January 24, 2019. The CEC responded on March 15, 2019. The CEC determined that the approval by the CEC is not required. However, the trees that would be impacted by the pipeline work would have to be replanted when the work is completed. This is to comply with the Condition of Certification VIS-4

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 7, 2019 - (Conditions of Certification AQ-31) GGS submitted to BAAQMD and CEC the 2018 Annual RATA and Source Test Protocol for the proposed dates of January 22-26, 2019

6.2. January 9, 2019 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: October 2018 to December 2018

6.3. January 16, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for December 2018

6.4. January 18, 2019 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q4-2018Quarterly 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)

6.5. January 23, 2019 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q4-2018 was submitted to CEC/BAAQMD

6.6. January 24, 2019 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q4-2018 (Part 75 Compliance)

6.7. February 22, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for January 2019

6.8. February 22, 2019 – 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 January 15, 2019 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

6.9. February 22, 2019 – 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 February 1, 2019 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

6.10. February 27, 2019 – The Delta diablo Sanitation District (DD) issued the renewal of Industrial Wastewater Discharge Permit to expire on February 28, 2023

6.11. February 28, 2019 - GGS submitted to Contra Costa Health Services (CCHS) the Hazardous Materials Business Plan Annual Update for 2019, through the California Environmental Reporting System (CERS)

6.12. March 22, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for February 2019

6.13. March 26, 2019 - (Condition of Certification AQ-29, AQ-30, AQ-31 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 22-26, 2019

6.14. March 26, 2019 – (General Condition of Certification, pages 179-180): GGS submitted the Annual Compliance Report for RY 2018

6.15. April 8, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for March 2019

6.16. April 8, 2019 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q1-2019 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)

6.17. April 10, 2019 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: January 2019 to March 2019

6.18. April 15, 2019 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q1 2019 was submitted to CEC/BAAQMD

6.19. April 18, 2019 – GGS submitted to BAAQMD/CEC the Semi-annual Monitoring report for the period October 1, 2018 to March 31, 2019. This is to comply with Standard Condition F (Monitoring Report) of the Major Facility (Title V) Permit.

6.20. April 19, 2019 – (Condition of Certification AQ-SC13) GGS submitted to BAAQMD/CEC the Notification on Visual Emission Evaluation for the earliest anticipated re-start date of April 27, 2019.

6.21. April 23, 2019 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q1-2019 (Part 75 Compliance)

6.22. April 30, 2019 – (Condition of Certification AQ-SC13) GGS submitted to BAAQMD/CEC the Report on Visual Emission Evaluation for the restart date of April 27, 2019.

6.23. May 9, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for April 2019

6.24. June 12, 2019 - 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)

6.25. June 20, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for May 2019

6.26. July 1, 2019 – GGS received the renewal on the Permit to Operate (PTO) from Contra Costa County Hazardous Materials Program (CUPA). The PTO expires on June 30, 2020.

6.27. July 2, 2019 - In compliance with the terms of the General Permit for Storm Water Associated with Industrial Activity, the 2018-2019 Annual Report was submitted to Central Valley Regional Water Quality Control Board

6.28. July 12, 2019 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: April 2019 to June 2019

6.29. July 22, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for June 2019

6.30. July 22, 2019- (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q2 2019 was submitted to CEC/BAAQMD

6.31. July 22, 2019 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q2-2019 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)

6.32. July 23, 2019 – The Delta diablo Sanitation District (DD) granted the PG&E Gateway Generating Station an exemption to forego sampling of the 126 priority pollutants in accordance with 40 CFR 423.17(a)(4)(ii) upon completion of Priority Pollutant Sampling Exemption Form certifying that (1) The facility does not discharge to sanitary sewer system any priority pollutants listed in 40 CFR 423, appendix A-126 Priority Pollutants in concentration greater than 10 ppb; and (2) There had been no changes to the chemical inventory for cooling tower maintenance at the facility since the engineering calculations demonstrating that the regulated pollutants are not detectable in the final discharge by the analytical methods in 40 CFR part 136 was submitted; provided further that the Priority Sampling Exemption expires annually and that the Priority Pollutant Sampling Exemption Form be submitted annually to maintain the exemption status.

6.33. July 23, 2019 – The Priority Pollutant Exemption Form with Certification Statement was submitted to DD.

6.34. July 24, 2019 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q2-2019 (Part 75 Compliance)

6.35. August 1, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for July 2019

6.36. August 9, 2019 – GGS submitted to BAAQMD the Permit to Operate (PTO) Renewal Data update (November 2019-October 2020)

6.37. September 12, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for August 2019

6.38. September 23, 2019 – GGS submitted to BAAQMD/EPA, and copied CEC, on the Annual Compliance Certification for the reporting period of September 1, 2018 to August 31, 2019 as required under permit condition I.G of the Major Facility Review (Title V) permit.

6.39. October 7, 2019 - GGS submitted to DD the Quarterly Self-Monitoring Report and wastewater flow data for the period: July 2019 to September 2019

6.40. October 8, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for September 2019

6.41. October 8, 2019 - GGS submitted to Section Chief of the Environmental Enforcement Section, US department of Justice, US EPA Regional Office IX, and copied to CEC the Q3-2019 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)

6.42. October 15, 2019 – GGS submitted to BAAQMD/CEC the Semi-annual Monitoring report for the period April 1, 2019 to September 30, 2019. This is to comply with Standard Condition F (Monitoring Report) of the Major Facility (Title V) Permit

6.43. October 28, 2019 – GGS submitted to EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q3-2019 (Part 75 Compliance)

6.44. October 28, 2019 - (Condition of Certification AQ-14) Quarterly Air Compliance Report for Q3 2018 was submitted to CEC/BAAQMD

6.45. November 15, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for October 2019

6.46. December 5, 2019 – The Priority Pollutant Exemption Form with Certification Statement was submitted to DD.

6.47. December 9, 2019 - 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)

6.48. December 9, 2019 - (Condition of Certification AQ-33) GGS submitted to BAAQMD Monthly CEMS Report for November 2019

6.49. October 287, 2019 – GGS received the renewal on the Permit to Operate (PTO) from BAAQMD. The PTO expires on November 1, 2020.

6.50. December 13, 2019 - (Conditions of Certification AQ-31) GGS submitted to BAAQMD and CEC the 2018 Annual RATA and Source Test Protocol for the proposed dates of January 6-10, 2020

6.51. December 19, 2019 – 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 4, 2019 in Storm Water Multiple Application and Report Tracking Systems (SMARTS)

7. **Projected Compliance Activities for Next Year (RY January 1, 2020 – December 31, 2020)** - The following is a list of compliance activities/documents that PG&E anticipates for the January 1, 2020 to December 31, 2020 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 2020

7.4 Quarterly Air Quality EDR reports to EPA due on January 30, 2020, April 30, 2020, July 30, 2020 and October 30, 2020

7.5 Quarterly Self-Monitoring Reports to DD due on January 15, 2020, April 15, 2020, July 15, 2020 and October 15, 2020

7.6 Quarterly Industrial Flow Data Report to DD due January 15, 2020, April 15, 2020, July 15, 2020 and October 15, 2020

7.7 Annual HMBP update due to CCHS on March 1, 2020

7.8 2019-2020 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, 2020

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 2020 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, 2020, April 30, 2020, July 30, 2020 and October 30, 2020

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, 2020 and December 15, 2020.

7.14 To submit to BAAQMD/EPA Annual and Semi-annual Title V reports. These reports are due on September 30, 2020, April 30, 2020 and October 31, 2020, respectively.

7.15 (Conditions of Certification – General Conditions) - CEC Annual

Compliance Report for RY2018 due March 30, 2020, 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
1/7/2019	BAAQMD/CEC	AQ-31	2019 Relative Accuracy Test Audit and Compliance Test Protocol for the proposed date of January 22-26, 2019
1/9/2019	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: Oct 2018 to Dec 2018
1/16/2019	BAAQMD	AQ-33	Monthly CEMS Report for December 2018
1/18/2019	US EPA IX/ CEC	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q4-2018
1/23/2019	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q4-2018
1/24/2019	EPA	Part 75	EPA Quarterly EPA ECMPS Electronic Data Reports (EDR) Reports for Q4-2018
2/22/2019	BAAQMD	AQ-33	Monthly CEMS Report for January 2019
2/22/2019	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSEs that occurred on Jan 15, 2019, and Feb 1, 2019
2/28/2019	CCHS/CERS		Hazardous Materials Business Plan Annual Update for 2019

Date	To	Condition	Subject
3/22/2019	BAAQMD	AQ-33	Monthly CEMS Report for February 2019
3/26/2019	BAAQMD/CEC	AQ-29, AQ-30, AQ-31, AQ-32	Source Test Report and 2018 Relative Accuracy Test Audit and Compliance Test Report; the tests were completed January 22-26, 2019
3/26/2019	CEC	GEN (pp.179-180)	Annual Compliance Report #10 RY 2018
4/8/2019	BAAQMD	AQ-33	Monthly CEMS Report for March 2019
4/8/2019	US EPA IX/ CEC/DOJ	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q1-2019
4/10/2019	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: January 2019 to March 2019
4/15/2019	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q1 2019
4/18/2019	BAAQMD/CEC	Title V	Semi-annual Monitoring Report for Oct 1, 2018 to Mar 31, 2019
4/19/2019	CEC/BAAQMD	AQ-SC13	Notification on Visual Emission Evaluation (VEE) for Apr 27, 2019 Restart of Units
4/23/2019	EPA	Part 75	EPA ECMPS ED) for Q1-2019
4/30/2019	CEC/BAAQMD	AQ-SC13	Report onVisual Emission Evaluation (VEE) for Apr 27, 2019 Restart of Units
5/9/2019	BAAQMD	AQ-33	Monthly CEMS Report for April 2019
6/12/2019	US EPA IX/ CEC	Consent Decree Paragraph 11(1)	Semi-annual Report on CO Projected Exceedance Date
6/20/2019	BAAQMD	AQ-33	Monthly CEMS Report for May 2019

Date	To	Condition	Subject
7/2/2019	CVRWQCB-SMARTS	IGP	Storm Water Annual Report for 2018-2019
7/12/2019	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: April 2019 to June 2019
7/22/2019	BAAQMD	AQ-33	Monthly CEMS Report for June 2019
7/22/2019	US EPA IX/ CEC/DOJ	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q2-2019
7/22/2019	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q2 2019
7/23/2019	DD	SOILS&WATER-4	Priority Pollutant Exemption Form/Certification Statement
7/24/2019	EPA	Part 75	EPA ECMPS EDR for Q2-2019
8/1/2019	BAAQMD	AQ-33	Monthly CEMS Report for July 2019
8/9/2019	BAAQMD	PTO	PTO Renewal Data Update
9/12/2019	BAAQMD	AQ-33	Monthly CEMS Report for August 2019
9/23/2019	BAAQMD/EPA /CEC	Title V	Annual Compliance Certification (Sep 1, 2018- Aug 31, 2019)
10/7/2019	DD	SOILS&WATER-4	Quarterly Self-Monitoring Report for the period: July 2019 to September 2019
10/8/2019	BAAQMD	AQ-33	Monthly CEMS Report for September 2019
10/8/2019	US EPA IX/ CEC	Consent Decree Paragraph 12	Quarterly Excess Emission Report (NOx & CO) for Q3-2019
10/15/2019	BAAQMD/CEC	Title V	Semi-annual Monitoring Report for Apr 1, 2019 to Sep 30, 2019
10/28/2018	EPA	Part 75	EPA ECMPS EDR for Q3-2019

Date	To	Condition	Subject
10/28/2018	CEC/BAAQMD	AQ-14	Quarterly Air Compliance Report for Q3 2019
11/15/2018	BAAQMD	AQ-33	Monthly CEMS Report for October 2019
12/5/2019	DD	SOILS&WATER-4	Priority Pollutant Exemption Form/Certification Statement
12/9/2019	US EPA IX/ CEC	Consent Decree Paragraph 11(1)	Semi-annual Report on CO Projected Exceedance Date
12/9/2019	BAAQMD	AQ-33	Monthly CEMS Report for November 2019
12/13/2019	BAAQMD/CEC	AQ-29, AQ-30, AQ-31, AQ-32	Notification on 2020 Source Test and Relative Accuracy Test Audit for Jan 6-10, 2020
12/19/2019	CVRWQCB-SMARTS	IGP	Analytical results for the sampling of the QSE that occurred on Dec 4,2019

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** – None for RY 2019

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 11

Exhibit 1
Updated Compliance Matrix

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2019

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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		Submitted w/ Quarterly Air Compliance Reports (QACR)	

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2019

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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 12/13/2019 (for 2020 ST/RATA), Test (01/6/2020 to 01/10/2020)			
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	Notification: 12/13/2019 (for 2020 ST/RATA), Test (01/6/2020 to 01/10/2020)			
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	3/5/2020			
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	Notification: 12/13/2019 (for 2020 ST/RATA), Test (01/6/2020 to 01/10/2020)			

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2019

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-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	3/5/2020			
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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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: 4/15/2019, Q2: 7/22/2019, Q3:10/28/2019, Q4: 1/16/2020		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)	3/5/2020			
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	3/26/2019		Submitted with this Annual Compliance Report (ACR)	

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2019

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
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
GEN	3_OPS	Annual Compliance Report (ACR)	Submit Annual Compliance Report (ACR): March 31st of the following calendar year	Annually (recurring)	3/26/2019		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	3/26/2019		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	3/26/2019		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	3/26/2019		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	3/26/2019		Submitted with ACR: Water use for RY 2016 = 63.6 AF	

PG&E Gateway Generating Station Project
California Energy Commission Compliance Matrix
December 31, 2019

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
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			
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	3/26/2019		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	3/26/2019	RY 2018 ACR

Gateway Generating Station
(03-AFC-01)

Annual Compliance Report No. 11

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
Granted exemption to forego sampling of 126 priority pollutants per 40CFR423.17(a)(4)(ii)	7/23/2019
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	
Started Gas Pipeline Construction and Interconnection	07-13-07
Completed Gas Pipeline Construction	07-01-08

Gateway Generating Station
(03-AFC-01)

Annual Compliance Report No. 11

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 2019 - Dec 2019

Date	Water Consumption		
	(gals.)	(cu. feet)	(acre-feet)
Jan-19	784,652	104,892.72	2.41
Feb-19	1,119,008	149,589.61	3.43
Mar-19	1,228,216	164,188.60	3.77
Apr-19	478,720	63,995.56	1.47
May-19	1,068,144	142,790.08	3.28
Jun-19	1,377,068	184,087.22	4.23
Jul-19	2,508,044	335,276.72	7.70
Aug-19	2,692,800	359,975.00	8.26
Sep-19	2,255,220	301,479.06	6.92
Oct-19	1,676,268	224,084.44	5.14
Nov-19	1,280,576	171,188.11	3.93
Dec-19	946,968	126,591.21	2.91
Annual Total:	**17,415,684.00**	**2,328,138.31**	**53.45**

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 2/08/2019 **Water Service From:** 1/02/2019 **To:** 2/01/2019

COM ZONE 2 **Units:** 1,049

Zone Charge: 4.16

DTTDFADFFTDFFDTATFAAAAFTDTFDTDFTFAFTAATAFFTTFTDFADTDFFATFFDDDDDTF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	5,751.99
PAYMENTS APPLIED	5,751.99-
WATER USAGE	4,363.84
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,189.59
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 > 3/01/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 5,736.12

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings			CONSUMPTION INFORMATION		
Current	Previous	Units	Gallons	Days	Gallons / Day
43498	42449	1,049	784,652	30	26,155
		1,104	825,792	30	27,526
	Last Year				

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

Due Date: 3/01/2019 **Customer Name:** PG&E

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

Amount Now Due: 5,736.12

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

00401511000005736 12

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 2/08/2019 **Water Service From:** 1/02/2019 **To:** 2/01/2019

Units:

Zone Charge:

DDDADTFDADAFAFDADTTTFTTTTFFATTDAAFDDTAFAATTAFTATFFDFTTADAFFFDAFFA

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/

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 > 3/01/2019

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: 3/01/2019

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.

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

00401512000000007935

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 3/08/2019 **Water Service From:** 2/01/2019 **To:** 2/28/2019

COM ZONE 2 **Units:**

Zone Charge:

DTFAFTTFATTDFFTAFFTAFAFDTAFTADTTAFAFTATTFATFFTTTDDDATFFDDFADDTAFF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	5,736.12
PAYMENTS APPLIED	5,736.12-
ADJUSTMENTS	5,736.12-
CREDIT BALANCE	5,736.12-
WATER USAGE	0.00
2 " WATER MAINT FEE	139.50
SEWER NON-RES	3.80
BACKFLOW RP 3"	24.92

** This is your FINAL BILL **
YOUR ACCOUNT IS NOW CLOSED. TO AVOID ANY FUTURE COLLECTION ACTIVITY, PLEASE SEND IN YOUR PAYMENT PROMPLTY.

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 > 3/29/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 5,567.90-

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
		1,496	1,119,008	30	37,300
	Last Year				

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

Due Date: 3/29/2019 **Customer Name:** PG&E

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

Amount Now Due: 5,567.90- CREDIT-DO NOT PAY

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

00401511000055679O

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 3/08/2019 **Water Service From:** 2/01/2019 **To:** 2/28/2019

Units:

Zone Charge:

ATDTFTDAFATFFTAATFDFAAFAATATDDTDDTFFFDTADFAADDTFATFDDFDDFTTTADDAF

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	79.35
PAYMENTS APPLIED	79.35-
ADJUSTMENTS	79.35-
CREDIT BALANCE	79.35-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	20.61
FL DET CHK 6"	46.97
BACKFLW DC 5/8"X3/4"	3.83

** This is your FINAL BILL **
YOUR ACCOUNT IS NOW CLOSED. TO AVOID ANY FUTURE COLLECTION ACTIVITY, PLEASE SEND IN YOUR PAYMENT PROMPLTY.

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 > 3/29/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 7.94-

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: 3/29/2019 **Customer Name:** PG&E

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

Amount Now Due: 7.94- CREDIT-DO NOT PAY

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

0040151200000000794

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 04/04/2019 Water Service From: 03/03/2019 To: 04/02/2019

COM ZONE 2 Units: 1,642

Zone Charge: 4.16

CAN0404A AUTO 5-DIGIT 94509
7000000742 00.0003.0056 728/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	382.52
PRIOR BALANCE	7,026.20
5% LATE PENALTY	349.81
ADJUSTMENT(S)	-5,231.46
WATER USAGE	6,830.72
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,859.68
BACKFLOW RP 3"	28.09

FOR WATERING TIPS AND WATER CONSERVATION
PLEASE VISIT HTTPS://WWW.H2OUSE.ORG/

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 04/25/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 11,400.56

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
46459	44817	1,642	1,228,216	30	40941
Last Year		1,496	1,119,008	30	37300

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 04/25/2019

Account: 004-01511-01

Amount Now Due: 11,400.56

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010114005 68

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 05/03/2019 Water Service From: 04/02/2019 To: 05/02/2019

COM ZONE 2 Units: 640

Zone Charge: 4.16

CAN0503C AUTO 5-DIGIT 94509
7000000741 00.0003.0055 727/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	11,400.56
PAYMENT(S) APPLIED	-11,064.12
ADJUSTMENT(S)	-336.44
WATER USAGE	2,662.40
2 " WATER MAINT FEE	155.00
SEWER NON-RES	727.42
BACKFLOW RP 3"	28.09

THE CUSTOMER SERVICE COUNTER WILL BE CLOSED
UNTIL 10 AM ON 5/17/19

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 05/24/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 3,572.91

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings			CONSUMPTION INFORMATION		
Current	Previous	Units	Gallons	Days	Gallons / Day
47099	46459	640	478,720	30	15957
Last Year		427	319,396	30	10647

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 05/24/2019

Customer Name: PG&E

Account: 004-01511-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 3,572.91

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010035729l5

City of Antioch - Finance Department

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

Account: 004-01512-01 For service at: 3225 WILBUR AVE

CREATED ON 05/03/2019 Water Service From: 04/02/2019 To: 05/02/2019

Units: 0

Zone Charge:

CAN0503C AUTO 5-DIGIT 94509
7000000742 00.0003.0055 727/2

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	118.17
PAYMENT(S) APPLIED	-118.17
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	7.53

THE CUSTOMER SERVICE COUNTER WILL BE CLOSED
UNTIL 10 AM ON 5/17/19

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 05/24/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 82.62

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings

Current	Previous	Units	CONSUMPTION INFORMATION Gallons	Days	Gallons / Day
0	0	0	0	00	
	Last Year	0	0	0	

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[2/2]

Due Date: 05/24/2019

Customer Name: PG&E

Account: 004-01512-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 82.62

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
P.O. Box 6015
Artesia, CA 90702-6015

00401512010000082624

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 06/05/2019 Water Service From: 05/02/2019 To: 06/01/2019

COM ZONE 2 Units: 1,428

Zone Charge: 4.16

CAN0605B AUTO 5-DIGIT 94509
7000000736 00.0003.0050 722/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	3,572.91
PAYMENT(S) APPLIED	-3,572.91
WATER USAGE	5,940.48
2 " WATER MAINT FEE	155.00
SEWER NON-RES	1,617.86
BACKFLOW RP 3"	28.09

SIGN UP TODAY FOR YOUR NO-COST GREEN HOUSE CALL FROM RISING SUN. LED'S, SMART POWER STRIPS, ENERGY COACHING AND MORE! REGARDLESS OF IF YOU OWN OR RENT. CALL 510-665-1501 EXT 30

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 06/26/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 7,741.43

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
48527	47099	1,428	1,068,144	30	35605
Last Year		1,629	1,218,492	30	40616

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 06/26/2019

Account: 004-01511-01

Amount Now Due: 7,741.43

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010077414 37

City of Antioch - Finance Department

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

Account: 004-01512-01 For service at: 3225 WILBUR AVE

CREATED ON 06/05/2019 Water Service From: 05/02/2019 To: 06/01/2019

Units: 0

Zone Charge:

CAN0605B AUTO 5-DIGIT 94509
7000000737 00.0003.0050 722/2

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	82.62
PAYMENT(S) APPLIED	-82.62
5/8"X3/4" MAINT FEE	22.90
FL DET CHK 6"	52.19
BACKFLW DC 5/8"X3/4"	7.53

SIGN UP TODAY FOR YOUR NO-COST GREEN HOUSE CALL FROM RISING SUN. LED'S, SMART POWER STRIPS, ENERGY COACHING AND MORE! REGARDLESS OF IF YOU OWN OR RENT. CALL 510-665-1501 EXT 30

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 06/26/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 82.62

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
0	0	0	0	00	
Last Year		0	0	0	

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[2/2]

Due Date: 06/26/2019

Account: 004-01512-01

Amount Now Due: 82.62

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401512010000082624

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 07/10/2019 Water Service From: 06/01/2019 To: 07/01/2019

COM ZONE 2 Units: 1,841

Zone Charge: 4.55

CAN0710B AUTO 5-DIGIT 94509
7000000741 00.0003.0055 727/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	7,741.43
PAYMENT(S) APPLIED	-7,741.43
WATER USAGE	8,376.55
2 " WATER MAINT FEE	165.00
SEWER NON-RES	2,213.64
BACKFLOW RP 3"	25.10

USE ONLINE BILL PAY? MAKE SURE YOUR ACCOUNT NUMBER AND REMIT ADDRESS MATCH THIS BILL.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 07/31/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 10,780.29

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
50368	48527	1,841	1,377,068	30	45902
	Last Year	3,049	2,280,652	30	76022

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 07/31/2019

Account: 004-01511-01

Amount Now Due: 10,780.29

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010107802794

City of Antioch - Finance Department

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

Account: 004-01512-01 For service at: 3225 WILBUR AVE

CREATED ON 07/10/2019 Water Service From: 06/01/2019 To: 07/01/2019

Units: 0

Zone Charge:

CAN0710B AUTO 5-DIGIT 94509
7000000742 00.0003.0055 727/2

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	82.62
PAYMENT(S) APPLIED	-82.62
5/8"X3/4" MAINT FEE	24.40
FL DET CHK 6"	47.80
BACKFLW DC 5/8"X3/4"	5.30

USE ONLINE BILL PAY? MAKE SURE YOUR ACCOUNT NUMBER AND REMIT ADDRESS MATCH THIS BILL.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 07/31/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.50

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
0	0	0	0	00	
	Last Year	0	0	0	

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[2/2]

Due Date: 07/31/2019

Account: 004-01512-01

Amount Now Due: 77.50

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401512010000077508

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 08/06/2019 Water Service From: 07/01/2019 To: 08/01/2019

COM ZONE 2 Units: 3,353

Zone Charge: 4.55

CAN0806B AUTO 5-DIGIT 94509
7000000745 00.0003.0059 731/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	10,780.29
PAYMENT(S) APPLIED	-10,780.29
WATER USAGE	15,256.15
2 " WATER MAINT FEE	165.00
SEWER NON-RES	4,028.04
BACKFLOW RP 3"	25.10

USE ONLINE BILL PAY? MAKE SURE YOUR ACCOUNT NUMBER AND REMIT ADDRESS MATCH THIS BILL.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 08/27/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 19,474.29

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

CONSUMPTION INFORMATION

Meter Readings Current	Previous	Units	Gallons	Days	Gallons / Day
53721	50368	3,353	2,508,044	31	80905
Last Year		2,814	2,104,872	31	67899

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 08/27/2019

Customer Name: PG&E

Account: 004-01511-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 19,474.29

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010194742 94

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 09/05/2019

COM ZONE 2

Water Service From: 08/01/2019 To: 09/01/2019

Units: 3,600

Zone Charge: 4.55

CAN0905C AUTO 5-DIGIT 94509
7000000745 00.0003.0059 731/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	19,474.29
PAYMENT(S) APPLIED	-19,474.29
WATER USAGE	16,380.00
2 " WATER MAINT FEE	165.00
SEWER NON-RES	4,324.44
BACKFLOW RP 3"	25.10

USE ONLINE BILL PAY? MAKE SURE YOUR ACCOUNT NUMBER AND REMIT ADDRESS MATCH THIS BILL.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 09/26/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 20,894.54

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
57321	53721	3,600	2,692,800	31	86865
Last Year		1,753	1,311,244	31	42298

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 09/26/2019

Customer Name: PG&E

Account: 004-01511-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 20,894.54

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010208945 40

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 10/02/2019

COM ZONE 2

Water Service From: 09/01/2019 To: 10/01/2019

Units: 3,015

Zone Charge: 4.55

CAN1002B AUTO 5-DIGIT 94509
7000000744 00.0003.0058 730/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	20,894.54
PAYMENT(S) APPLIED	-20,894.54
WATER USAGE	13,718.25
2 " WATER MAINT FEE	165.00
SEWER NON-RES	3,622.44
BACKFLOW RP 3"	25.10

THE CITY OF ANTIOCH GSA INVITES YOU TO HELP DEVELOP A GROUNDWATER SUSTAINABILITY PLAN (GSP) BY VISTING HTTPS://WWW.ECC-IRWM.ORG/ABOUT-SGMA.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 10/23/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 17,530.79

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

CONSUMPTION INFORMATION

Meter Readings Current	Previous	Units	Gallons	Days	Gallons / Day
60336	57321	3,015	2,255,220	30	75174
Last Year		1,674	1,252,152	31	40392

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 10/23/2019

Customer Name: PG&E

Account: 004-01511-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 17,530.79

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010175307 97

City of Antioch - Finance Department

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

Account: 004-01511-01 For service at: 3225 WILBUR AVE

CREATED ON 11/06/2019 Water Service From: 10/01/2019 To: 11/01/2019

COM ZONE 2 Units: 2,241

Zone Charge: 4.55

CAN1106A AUTO 5-DIGIT 94509
7000000740 00.0003.0054 726/1

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
AGED BALANCE	0.00
PRIOR BALANCE	17,530.79
5% LATE PENALTY	876.54
PAYMENT(S) APPLIED	-17,530.79
WATER USAGE	10,196.55
2 " WATER MAINT FEE	165.00
SEWER NON-RES	2,693.64
BACKFLOW RP 3"	25.10

THE CITY OF ANTIOCH GSA INVITES YOU TO HELP DEVELOP A GROUNDWATER SUSTAINABILITY PLAN (GSP) BY VISTING HTTPS://WWW.ECC-IRWM.ORG/ABOUT-SGMA.

For questions regarding this invoice, contact Customer Service by email at customerservice@ci.antioch.ca.us or call (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 > 11/27/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 13,956.83

PLEASE SEE REVERSE SIDE FOR PAYMENTS OPTIONS

CONSUMPTION INFORMATION

Meter Readings Current	Previous	Units	Gallons	Days	Gallons / Day
62577	60336	2,241	1,676,268	31	54073
Last Year		1,611	1,205,028	30	40168

PLEASE DETACH AND RETURN THIS PORTION WITH PAYMENT

[1/2]

Due Date: 11/27/2019

Account: 004-01511-01

Amount Now Due: 13,956.83

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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
P.O. Box 6015
Artesia, CA 90702-6015

00401511010139568 34

City of Antioch - Finance Department

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

Account: 004-01511-01 **For service at:** 3225 WILBUR AVE

CREATED ON 12/10/2019 **Water Service From:** 11/01/2019 **To:** 12/02/2019

Units: 1,712

COM ZONE 2 **Zone Charge:** 4.55

DDTFDAFDAFFFFFDADTATFDTADFTFTTFAAFDTTTFAATDTDTFDFATFATDTAAAAFADDT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	13,956.83
PAYMENTS APPLIED	13,956.83-
WATER USAGE	7,789.60
2 " WATER MAINT FEE	165.00
SEWER NON-RES	2,058.84
BACKFLOW RP 3"	25.10

PLEASE REMEMBER IRRIGATION TIMERS SHOULD BE OFF FOR THE WINTER. SAVE WATER AND REDUCE YOUR WATER BILL.

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 > 12/31/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 10,038.54

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings		CONSUMPTION INFORMATION			
Current	Previous	Units	Gallons	Days	Gallons / Day
64289	62577	1,712	1,280,576	31	41,308
		1,151	860,948	31	27,772
	Last Year				

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

Due Date: 12/31/2019 **Customer Name:** PG&E

Account: 004-01511-01 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 10,038.54

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

00401511010100385 4

City of Antioch - Finance Department

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

Account: 004-01512-01 **For service at:** 3225 WILBUR AVE

CREATED ON 12/10/2019 **Water Service From:** 11/01/2019 **To:** 12/02/2019

Units:

Zone Charge:

FFFATDAATFATTFFDFATDDTDFAFATFATATDTFDDFDTTTFTFADDAFAATTFTDFAAATFA

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	81.38
PAYMENTS APPLIED	81.38-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	24.40
FL DET CHK 6"	47.80
BACKFLW DC 5/8"X3/4"	5.30

PLEASE REMEMBER IRRIGATION TIMERS SHOULD BE OFF FOR THE WINTER. SAVE WATER AND REDUCE YOUR WATER BILL.

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 > 12/31/2019

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.50

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: 12/31/2019

Account: 004-01512-01

Amount Now Due: 77.50

Amount Paid: $ _____

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

Customer Name: PG&E

For Service At: 3225 WILBUR AVE

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

00401512010000007750

City of Antioch - Finance Department

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

Account: 004-01511-01 **For service at:** 3225 WILBUR AVE

CREATED ON 1/08/2020 **Water Service From:** 12/02/2019 **To:** 1/02/2020

Units: 1,266

COM ZONE 2 **Zone Charge:** 4.55

TAFFAFTDTTODDATDFDFADAADDAFDAFADTFAATATDFAFDATDTDDTAAFAADAFDDTADD

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	10,038.54
PAYMENTS APPLIED	10,038.54-
WATER USAGE	5,760.30
2 " WATER MAINT FEE	165.00
SEWER NON-RES	1,523.64
BACKFLOW RP 3"	25.10

PLEASE REMEMBER IRRIGATION TIMERS SHOULD BE OFF FOR THE WINTER. SAVE WATER AND REDUCE YOUR WATER BILL.

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 > 1/29/2020

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 7,474.04

PLEASE SEE REVERSE SIDE FOR PAYMENT OPTIONS

Meter Readings			CONSUMPTION INFORMATION		
Current	Previous	Units	Gallons	Days	Gallons / Day
65555	64289	1,266	946,968	31	30,547
		1,052	786,896	31	25,383
	Last Year				

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

Due Date: 1/29/2020 **Customer Name:** PG&E

Account: 004-01511-01 **For Service At:** 3225 WILBUR AVE

Amount Now Due: 7,474.04

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

00401511010074740 4

City of Antioch - Finance Department

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

Account: 004-01512-01 **For service at:** 3225 WILBUR AVE

CREATED ON 1/08/2020 **Water Service From:** 12/02/2019 **To:** 1/02/2020

Units:

Zone Charge:

TFATTOAFDDAOTTODAADTTTODTDFAAATFFATFAAFDADFFATAFTFDTFTAFTADFDFTAT

PG&E
3225 WILBUR AVE
ANTIOCH CA 94509-8546

	Amount
PRIOR BALANCE	77.50
PAYMENTS APPLIED	77.50-
WATER USAGE	0.00
5/8"X3/4" MAINT FEE	24.40
FL DET CHK 6"	47.80
BACKFLW DC 5/8"X3/4"	5.30

PLEASE REMEMBER IRRIGATION TIMERS SHOULD BE OFF FOR THE WINTER. SAVE WATER AND REDUCE YOUR WATER BILL.

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 > 1/29/2020

Amount Now Due, 5% Late Penalty if Not Received by Due Date > 77.50

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: 1/29/2020

Customer Name: PG&E

Account: 004-01512-01

For Service At: 3225 WILBUR AVE

Amount Now Due: 77.50

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

00401512010000007750

Gateway Generating Station
(00-AFC-1C)

Annual Compliance Report No. 11

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. 11

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

April 10, 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 March 31, 2019)

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, 2019, 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, WSAC Operating Months Report, Cycles of Concentration, and Copy of 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®

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

April 10, 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 March 31, 2019)

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, 2019, 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, WSAC Operating Months Report, Cycles of Concentration, and Copy of 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
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in March 31, 2019

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, 2023.

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 March 31, 2019

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:** Apr. 10, 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 March 31, 2019

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 **(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	3/27/2019	3/28/2019	3/28/2019	3/28/2019	3/28/2019			
TYPE	G	G	C24	G	G			
STATION	E-001	E-001	E-001	E-001	E-001			
SMP.BY	Muskan	Muskan	Muskan	Muskan	Muskan			
PURPOSE	Compliance Quarterly (Q1)	Compliance Quarterly (Q1)	Compliance Quarterly (Q1)	Compliance Semi-annually (SA1)	Compliance Annually (A)			

Units: mg/L

PARAMETERS	LIMITS								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.		8.13						
BOD				4.3					
COD				ND(<10)					
TDS				138.0					
TSS				ND(<1.0)					
Arsenic	0.15			0.00067					
Cadmium	0.1			ND(<0.0005)					
Chromium	0.5			ND(<0.001)					
Copper	0.5			0.0041					
Iron				0.12					
Lead	0.5			ND(<0.0005)					
Mercury	0.003			ND(<0.0002)					
Molybdenum				0.059					
Nickel	0.5			0.0015					
Selenium	0.25			ND(<0.0005)					
Silver	0.2			ND(<0.0005)					
Zinc	1.00			0.053					
Cyanide	0.2		0.0089						
Phenol	1.00		0.0766						
Ammonia	200		35						
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.0)	ND(<5.0)						
O&G Animal/Vegetable Oil	300	6.7	ND(<5.0)						
TTO EPA 608					ND(<0.00002)				
TTO EPA 624					0.002570				
TTO EPA 625					0.024872				
TTO	2.00				0.027442				
Sulfide						ND (<0.05)			
Sulfate						54			

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

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

January 2019-March 2019

	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)
1/1/2019	34.5	0.0	NO	8,701	0.1	0	NO		8,701
1/2/2019	34.8	0.0	NO	6,070	20.9	0	NO	375	6,444
1/3/2019	35.0	0.0	NO	5,965	0.0	0	NO		5,965
1/4/2019	34.7	0.0	NO	29,169	20.1	0	NO	378	29,547
1/5/2019	34.5	0.0	NO	8,861	0.1	0	NO		8,861
1/6/2019	35.0	0.0	NO	25,892	0.0	0	NO		25,892
1/7/2019	34.6	0.0	NO	41,158	20.9	0	NO	388	41,545
1/8/2019	34.7	0.0	NO	21,027	0.0	0	NO		21,027
1/9/2019	34.4	0.0	NO	8,112	21.1	0	NO	392	8,504
1/10/2019	34.5	0.0	NO	16,319	19.5	1	NO	392	16,711
1/11/2019	37.4	11.0	NO	26,653	0.0	1	NO		26,653
1/12/2019	-0.2	0.0	NO		0.0	0	NO		-
1/13/2019	-0.3	0.0	NO		19.7	0	NO	392	392
1/14/2019	34.5	0.0	NO	33,478	0.1	0	NO	6	33,484
1/15/2019	34.7	0.0	NO	38,851	19.5	0	NO	406	39,257
1/16/2019	34.7	0.0	NO	26,691	19.1	0	NO	386	27,078
1/17/2019	34.9	0.0	NO	31,387	20.0	0	NO	370	31,757
1/18/2019	34.4	0.0	NO	10,657	0.0	0	NO		10,657
1/19/2019	34.5	0.0	NO	22,379	0.0	0	NO		22,379
1/20/2019	34.3	0.0	NO	8,119	0.0	0	NO		8,119
1/21/2019	34.5	0.0	NO	18,336	20.1	0	NO	377	18,714
1/22/2019	34.4	0.0	NO	6,183	0.1	0	NO		6,183
1/23/2019	35.0	0.0	NO	12,690	20.4	0	NO	414	13,104
1/24/2019	34.6	0.0	NO	26,690	19.1	0	NO	379	27,069
1/25/2019	35.0	0.0	NO	21,539	0.1	0	NO	1	21,539
1/26/2019	34.6	0.0	NO	7,141	0.0	0	NO		7,141
1/27/2019	35.0	0.0	NO	25,752	0.0	0	NO		25,752
1/28/2019	35.1	0.0	NO	27,908	20.5	0	NO	391	28,299
1/29/2019	34.7	0.0	NO	30,126	0.1	0	NO	2	30,128
1/30/2019	35.1	0.0	NO	13,478	19.7	0	NO	394	13,872
1/31/2019	34.8	0.0	NO	18,301	20.2	0	NO	388	18,689
								Max Daily Flow (Limit: 51,120):	41,545
								Monthly Total:	**583,462**
2/1/2019	34.8	0.0	NO	14,706	0.0	0	NO		14,706
2/2/2019	34.4	0.0	NO	12,435	0.0	0	NO		12,435
2/3/2019	34.6	0.0	NO	17,409	0.0	0	NO		17,409
2/4/2019	34.7	0.0	NO	33,538	20.7	0	NO	394	33,932
2/5/2019	34.5	0.0	NO	14,505	0.1	0	NO		14,505
2/6/2019	34.7	0.0	NO	34,040	20.0	0	NO	391	34,432
2/7/2019	34.4	0.0	NO	14,388	20.1	0	NO	374	14,762
2/8/2019	34.6	0.0	NO	19,372	0.1	0	NO	2	19,374
2/9/2019	34.5	0.0	NO	14,520	0.0	0	NO		14,520
2/10/2019	34.5	0.0	NO	15,889	0.0	1	NO		15,889
2/11/2019	35.6	2.0	NO	30,448	21.0	1	NO	387	30,835
2/12/2019	34.8	0.0	NO	46,376	0.0	0	NO		46,376
2/13/2019	34.9	0.0	NO	25,342	20.2	0	NO	391	25,734
2/14/2019	34.8	0.0	NO	42,174	21.7	0	NO	370	42,544
2/15/2019	34.5	0.0	NO	15,539	0.0	0	NO		15,539
2/16/2019	34.5	0.0	NO	22,190	0.0	0	NO		22,190
2/17/2019	34.4	0.0	NO	7,035	0.0	0	NO		7,035
2/18/2019	34.9	0.0	NO	41,801	21.0	0	NO	388	42,188
2/19/2019	34.7	0.0	NO	36,421	0.0	0	NO		36,421
2/20/2019	35.7	1.0	NO	40,845	21.1	0	NO	407	41,252
2/21/2019	34.5	0.0	NO	18,026	20.6	0	NO	393	18,419

PG&E Gateway Generating Station

Discharge Flow Data

January 2019-March 2019

	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)
2/22/2019	34.8	0.0	NO	15,043	0.0	0	NO		15,043
2/23/2019	35.3	0.0	NO	7,170	0.0	0	NO		7,170
2/24/2019	34.7	0.0	NO	17,349	0.0	0	NO		17,349
2/25/2019	35.1	0.0	NO	21,769	20.6	0	NO	379	22,148
2/26/2019	35.2	0.0	NO	26,876	0.1	0	NO	4	26,881
2/27/2019	38.9	1.0	NO	13,678	20.7	0	NO	389	14,068
2/28/2019	34.5	0.0	NO	18,617	20.2	0	NO	380	18,998
							Max Daily Flow (Limit: 51,120):		46,376
								Monthly Total:	**642,154**
3/1/2019	34.5	0.0	NO	31,705	0.0	0	NO	3	31,707
3/2/2019	34.5	0.0	NO	8,419	0.0	0	NO		8,419
3/3/2019	34.5	0.0	NO	14,438	0.0	0	NO		14,438
3/4/2019	34.9	0.0	NO	31,205	20.9	0	NO	386	31,591
3/5/2019	34.5	0.0	NO	23,795	20.4	0	NO	378	24,172
3/6/2019	34.5	0.0	NO	14,478	0.0	0	NO		14,478
3/7/2019	34.6	0.0	NO	34,082	21.6	0	NO	400	34,483
3/8/2019	34.5	0.0	NO	23,005	0.1	0	NO		23,005
3/9/2019	34.8	0.0	NO	27,064	0.0	0	NO		27,064
3/10/2019	34.6	0.0	NO	12,805	20.7	0	NO		12,805
3/11/2019	34.7	0.0	NO	32,862	0.0	61	NO		32,862
3/12/2019	34.7	0.0	NO	31,925	21.3	0	NO	422	32,348
3/13/2019	34.4	0.0	NO	17,826	0.1	0	NO		17,826
3/14/2019	35.2	0.0	NO	24,902	20.3	0	NO	381	25,284
3/15/2019	35.0	0.0	NO	15,678	0.0	0	NO		15,678
3/16/2019	35.0	0.0	NO	20,939	21.4	0	NO	378	21,316
3/17/2019	34.4	0.0	NO	16,749	0.1	0	NO	7	16,757
3/18/2019	35.0	0.0	NO	42,933	0.0	0	NO		42,933
3/19/2019	35.0	0.0	NO	29,517	20.5	0	NO	386	29,903
3/20/2019	35.0	0.0	NO	21,869	0.0	0	NO		21,869
3/21/2019	35.7	1.0	NO	33,133	21.0	0	NO	397	33,531
3/22/2019	35.1	0.0	NO	22,493	21.2	0	NO	398	22,891
3/23/2019	34.6	0.0	NO	37,519	0.0	0	NO		37,519
3/24/2019	34.5	0.0	NO	12,035	0.0	0	NO		12,035
3/25/2019	34.5	0.0	NO	33,070	20.5	0	NO	373	33,443
3/26/2019	34.5	0.0	NO	12,626	19.8	0	NO	389	13,015
3/27/2019	34.7	0.0	NO	29,798	20.7	0	NO	295	30,093
3/28/2019	35.1	0.0	NO	48,720	20.9	0	NO	283	49,003
3/29/2019	35.2	0.0	NO	32,590	0.1	0	NO	10	32,600
3/30/2019	34.6	0.0	NO	27,713	0.0	0	NO		27,713
3/31/2019	34.8	0.0	NO	22,830	0.0	0	NO		22,830
							Max Daily Flow (Limit: 51,120):		49,003
								Monthly Total:	**793,611**

Notes :

(1) The high flow on 1/11 was due to yearly automatic high flow testing.

(2) PI did not record values for 61 minutes on 3/11. There was no flow at that 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: **2019**

Month	Flow (gallons)	Due Date
January	583,462	4/15/2019
February	642,154	4/15/2019
March	793,611	4/15/2019
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 2019 to March 2019

WSAC Operation	
Month	Hours of Operation
January-19	0.00
February-19	0.00
March-19	7.41
April-19	
May-19	
June-19	
July-19	
August-19	
September-19	
October-19	
November-19	
December-19	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

January 2019 to March 2019

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-19	No Operation
February-19	No Operation
March-19	4.58
April-19	
May-19	
June-19	
July-19	
August-19	
September-19	
October-19	
November-19	
December-19	

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, Semi-annual, and Annual Monitoring of Combined Site Stream
(E-001)

Attachment 8a
Laboratory Results
Quarterly Monitoring of Combined Site Stream
(E-001)

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Analytical Report

WorkOrder: 1903D77

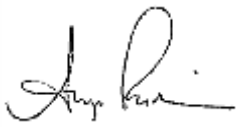
Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Quarterly Sampling (March 2019)

Project Received: 03/28/2019

Analytical Report reviewed & approved for release on 04/04/2019 by:



Angela Rydelius
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (March 2019)
WorkOrder: 1903D77

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 (March 2019)
WorkOrder: 1903D77

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment

Quality Control Qualifiers

F13	Indigenous sample results too high for a representative matrix spike analysis.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E1664A_SG
Date Prepared:	4/2/19	**Analytical Method:**	E1664A
Project:	Quarterly Sampling (March 2019)	**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	1903D77-001B	Water	03/27/2019 09:15	O&G	175726

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	04/03/2019 21:45

Analyst(s): PHU

Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-002B	Water	03/28/2019 11:45	O&G	175726

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	04/03/2019 21:50

Analyst(s): PHU

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E1664A
Date Prepared:	4/1/19	**Analytical Method:**	E1664A
Project:	Quarterly Sampling (March 2019)	**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	1903D77-001A	Water	03/27/2019 09:15	O&G	175359

Analytes	Result	RL	DF	Date Analyzed
HEM	**6.7**	5.1	1	04/02/2019 17:40

Analyst(s): PHU

Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-002A	Water	03/28/2019 11:45	O&G	175359

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	04/02/2019 17:45

Analyst(s): PHU

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E350.1
Date Prepared:	4/3/19	**Analytical Method:**	E350.1
Project:	Quarterly Sampling (March 2019)	**Unit:**	mg/L

Ammonia As Nitrogen

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-002C	Water	03/28/2019 11:45	WC_SKALAR 040319A1_23	175522

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	**35**	5.0	50	04/03/2019 11:26

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	SM5210B
Date Prepared:	3/28/19	**Analytical Method:**	SM5210 B-2001
Project:	Quarterly Sampling (March 2019)	**Unit:**	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	**1903D77-003A**	**Water**	**03/28/2019 11:30**	**WetChem**	**175410**

Analytes	Result	RL	DF	Date Analyzed
BOD	**4.3**	4.0	1	04/02/2019 16:09

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	4/1/19	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Quarterly Sampling (March 2019)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-002D	Water	03/28/2019 11:45	WC_SKALAR 040119A1_24	175568

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**8.9**	1.0	1	04/01/2019 14:58

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	SM5220 D-1997
Date Prepared:	4/1/19	**Analytical Method:**	SM5220 D-1997
Project:	Quarterly Sampling (March 2019)	**Unit:**	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-003B	Water	03/28/2019 11:30	SPECTROPHOTOMETER	175597

Analytes	Result	RL	DF	Date Analyzed
COD	ND	10	1	04/01/2019 12:42

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E245.2
Date Prepared:	3/28/19	**Analytical Method:**	E245.2
Project:	Quarterly Sampling (March 2019)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-003E	Water	03/28/2019 11:30	AA1 _13	175391

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	03/29/2019 10:39

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E200.8
Date Prepared:	3/28/19	**Analytical Method:**	E200.8
Project:	Quarterly Sampling (March 2019)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-003F	Water	03/28/2019 11:30	ICP-MS1 045SMPL.D	175367

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**0.67**	0.50	1	04/03/2019 12:36
Cadmium	ND	0.50	1	04/03/2019 12:36
Chromium	ND	1.0	1	04/03/2019 12:36
Copper	**4.1**	1.0	1	04/03/2019 12:36
Iron	**120**	50	1	04/03/2019 12:36
Lead	ND	0.50	1	04/03/2019 12:36
Molybdenum	**59**	0.50	1	04/03/2019 12:36
Nickel	**1.5**	0.50	1	04/03/2019 12:36
Selenium	ND	0.50	1	04/03/2019 12:36
Silver	ND	0.50	1	04/03/2019 12:36
Zinc	**53**	25	1	04/03/2019 12:36

Surrogates	REC (%)	Limits	
Terbium	100	70-130	04/03/2019 12:36

Analyst(s): MIG

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	E420.4
Date Prepared:	4/2/19	**Analytical Method:**	E420.4
Project:	Quarterly Sampling (March 2019)	**Unit:**	µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	**1903D77-002C**	**Water**	**03/28/2019 11:45**	**WC_SKALAR 040219C1_14**	**175640**

Analytes	Result	RL	DF	Date Analyzed
Phenolics	**76.6**	2.0	1	04/02/2019 18:32

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	SM2540 C-1997
Date Prepared:	3/29/19	**Analytical Method:**	SM2540 C-1997
Project:	Quarterly Sampling (March 2019)	**Unit:**	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-003C	Water	03/28/2019 11:30	WetChem	175474

Analytes	Result	RL	DF	Date Analyzed
Total Dissolved Solids	**138**	10.0	1	04/01/2019 07:44

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Received:	3/28/19 13:55	**Extraction Method:**	SM2540 D-1997
Date Prepared:	3/29/19	**Analytical Method:**	SM2540 D-1997
Project:	Quarterly Sampling (March 2019)	**Unit:**	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D77-003D	Water	03/28/2019 11:30	WetChem	175438

Analytes	Result	RL	DF	Date Analyzed
Total Suspended Solids	ND	1.00	1	03/29/2019 12:15

Analyst(s): AL

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	4/3/19	**BatchID:**	175726
Date Analyzed:	4/3/19	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175726

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.72	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	13	11	10.42	125	103	64-132	19.2	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	3/28/19	**BatchID:**	175359
Date Analyzed:	3/28/19	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175359

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.2	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18	18	20.83	85	87	78-114	2.87	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	4/3/19	**BatchID:**	175522
Date Analyzed:	4/3/19	**Extraction Method:**	E350.1
Instrument:	WC_SKALAR	**Analytical Method:**	E350.1
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175522

QC Summary Report for E350.1

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.084	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.1	4.2	4	102	104	88-113	2.06	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	3/28/19	**BatchID:**	175410
Date Analyzed:	4/2/19	**Extraction Method:**	SM5210B
Instrument:	WetChem	**Analytical Method:**	SM5210 B-2001
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175410 1903D77-003A

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.0	4.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	190	200	198	97	99	80-120	1.81	16

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
BOD	4.3	4.5	2.7	10

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	4/1/19	**BatchID:**	175568
Date Analyzed:	4/1/19	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175568 1903D77-002DMS/MSD

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.84	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	41	41	40	103	103	80-120	0	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	46	47	40	8.9	93	94	80-120	0.481	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	4/1/19	**BatchID:**	175597
Date Analyzed:	4/1/19	**Extraction Method:**	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM5220 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175597

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.2	10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	90	91	100	90	91	90-110	1.10	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	3/28/19	**BatchID:**	175391
Date Analyzed:	3/29/19	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175391 1903D77-003EMS/MSD

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	2.2	2.1	2	110	103	85-115	6.40	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Mercury	1	2.1	2.0	2	ND	104	101	80-120	2.78	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Mercury	ND<1.0	ND	-	-

%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:**	1903D77
Date Prepared:	3/28/19	**BatchID:**	175367
Date Analyzed:	3/29/19	**Extraction Method:**	E200.8
Instrument:	ICP-MS3	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175367

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	-	-	-
Iron	ND	20	50	-	-	-
Lead	ND	0.19	0.50	-	-	-
Molybdenum	ND	0.033	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	480			500	96	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	54	54	50	108	108	85-115	0	20
Cadmium	53	52	50	105	104	85-115	1.13	20
Chromium	52	51	50	103	102	85-115	0.895	20
Copper	52	53	50	105	106	85-115	0.608	20
Iron	5100	5100	5000	102	102	85-115	0	20
Lead	51	51	50	103	103	85-115	0	20
Molybdenum	51	50	50	101	99	85-115	1.72	20
Nickel	53	52	50	105	105	85-115	0	20
Selenium	53	52	50	106	105	85-115	1.14	20
Silver	49	48	50	97	96	85-115	1.24	20
Zinc	540	540	500	108	108	85-115	0	20
Surrogate Recovery								
Terbium	500	490	500	100	99	70-130	0.945	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	4/2/19	**BatchID:**	175640
Date Analyzed:	4/2/19	**Extraction Method:**	E420.4
Instrument:	WC_SKALAR	**Analytical Method:**	E420.4
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175640 1903D77-002CMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	2.0	2.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	42	42	40	106	104	80-120	0.686	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	1	120	120	40	77	99	98	70-130	0.640	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	3/29/19	**BatchID:**	175474
Date Analyzed:	4/1/19	**Extraction Method:**	SM2540 C-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 C-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB-175474

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D77
Date Prepared:	3/29/19	**BatchID:**	175438
Date Analyzed:	3/29/19	**Extraction Method:**	SM2540 D-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (March 2019)	**Sample ID:**	MB-175438

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1903D77 **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: Quarterly Sampling (March 2019)

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

Requested TATs: 5 days; 7 days;

Date Received: **03/28/2019**
Date Logged: **03/28/2019**

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
1903D77-001	E-001	Water	3/27/2019 09:15	☐	B	A										
1903D77-002	E-001	Water	3/28/2019 11:45	☐	B	A	C		D				C			
1903D77-003	E-001	Water	3/28/2019 11:30	☐				A		B	E	F		C	D	

Test Legend:

1	1664A_SG_W	2	1664A_W	3	AMMONIA_W	4	BOD_W
5	CN_SM4500CE_W	6	COD_W	7	HG_W	8	METALSMS_TTLC_W
9	PHENOLICS_W	10	TDS_W	11	TSS_W	12	

Project Manager: Angela Rydelius **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 (March 2019) **Work Order:** 1903D77
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/28/2019

☐ 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
1903D77-001A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	3/27/2019 9:15	5 days	1%+	☐	
1903D77-001B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	3/27/2019 9:15	5 days	1%+	☐	
1903D77-002A	E-001	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	3/28/2019 11:45	5 days	Present	☐	
1903D77-002B	E-001	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	3/28/2019 11:45	5 days	Present	☐	
1903D77-002C	E-001	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	3/28/2019 11:45	5 days	Present	☐	
			E350.1 (Ammonia)			☐		5 days	Present	☐	
1903D77-002D	E-001	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	3/28/2019 11:45	5 days	Present	☐	
1903D77-003A	E-001	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	3/28/2019 11:30	7 days	Present	☐	
1903D77-003B	E-001	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	3/28/2019 11:30	5 days	Present	☐	
1903D77-003C	E-001	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	3/28/2019 11:30	5 days	Present	☐	
1903D77-003D	E-001	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	3/28/2019 11:30	5 days	Present	☐	
1903D77-003E	E-001	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	3/28/2019 11:30	5 days	Present	☐	
1903D77-003F	E-001	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	3/28/2019 11:30	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.

1903D77

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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 (March 2019)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

Analysis Request | **Remarks**

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)	Ammonia as N (SM 4500-NH3-G	Mercury (245.2)	Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, Molybdenum, iron, and zinc)	BOD (SM 5210B)	COD (SM 5220D)	TDS (SM 2540C)	TSS (SM 2540D)
E-001		G	3/27/19	09:15	2	1L Amb	X			X			X					X									
E-001		G	3/28/19	9:45	2	1L Amb	X			X			X					X									
E-001		G	3/28/19	11:45	1	500ml Amb	X			X	X								X	X							
E-001		G	3/28/19	11:45	1	250-ml Poly	X			X		X				X											
E-001		C	3/28/19	11:30	1	1L Poly	X		X	X													X				
E-001		C	3/28/19	11:30	2	43-ml VOA	X			X	X													X			
E-001		C	3/28/19	11:30	1	500-ml poly	X		X	X															X		
E-001		C	3/28/19	11:30	1	1L poly	X		X	X																X	
E-001		C	3/28/19	11:30	1	250-ml Poly	X			X				X							X						
E-001		C	3/28/19	11:30	1	250-ml poly	X			X				X			X					X					

Relinquished By: | **Date:** 3/28/19 | **Time:** 13:55 | **Received By:** Nancy Palacios

Relinquished By: | **Date:** | **Time:** | **Received By:**

Relinquished By: | **Date:** | **Time:** | **Received By:**

ICE/t° 2.6C

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	**3/28/2019 13:55**
Project:	**Quarterly Sampling (March 2019)**	Date Logged:	**3/28/2019**
		Received by:	Nancy Palacios
WorkOrder №:	**1903D77** 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: 2.6°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; 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:

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1903D90

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Sanjiv Gill
Project P.O.:
Project: pH Sampling (March 2019)

Project Received: 03/28/2019

Analytical Report reviewed & approved for release on 04/04/2019 by:

Jennifer Lagerbom
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: pH Sampling (March 2019)
WorkOrder: 1903D90

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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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D90
Date Received:	3/28/19 14:15	**Extraction Method:**	SM4500H+B-2000
Date Prepared:	3/28/19	**Analytical Method:**	SM4500H+B
Project:	pH Sampling (March 2019)	**Unit:**	pH units

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D90-001A	Water	03/28/2019 12:25	WetChem	175464

Analytes	Result	Accuracy	DF	Date Analyzed
pH	**8.13**	±0.05	1	03/28/2019 12:25

Analyst(s): PHU

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1903D90 **ClientCode: PGEA**

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

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

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: pH Sampling (March 2019)

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

Requested TAT: 5 days;

Date Received: **03/28/2019**
Date Logged: **03/28/2019**

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
1903D90-001	E-001	Water	3/28/2019 12:25	☐	A											

Test Legend:

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

Project Manager: Angela Rydelius

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:** pH Sampling (March 2019) **Work Order:** 1903D90

Client Contact: Sanjiv Gill **QC Level:** LEVEL 2

Contact's Email: sanjivgill@comcast.net **Comments:** **Date Logged:** 3/28/2019

☐ 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
1903D90-001A	E-001	Water	SM4500H+B (Field pH)	0	No Container Received	☐	3/28/2019 12:25	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.

1903 D90

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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: 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 (March 2019)

Project Location: PG&E GGS Antioch – E-001 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	3/28/19	12:25	NA	NA	X		X							X	Grab Time: 12:25 Analysis Time: 12:26 Temperature: 19.9 pH: 8.13

Relinquished By:	**Date:** 3/28/19	**Time:** 14:15	**Received By:** Nancy Pelle
Relinquished By:	**Date:**	**Time:**	**Received By:**
Relinquished By:	**Date:**	**Time:**	**Received By:**

ICE/t° 2.0°C **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

Date/Time	Sample ID	Matrix	1st Reading		2nd Reading		Ave	Standard	Comments	Analyst
			pH	Temp.°c	pH	Temp.°c	pH	(lot # / exp. Date)		
3/28/19 / 11:10	Cal. pH # 7.00	L	7.00	19.6	7.00	19.8	7.00	bulK		
3/28/19 / 11:10	Cal pH # 4.00	L	4.00	19.8	4.00	19.8	4.00	bulK		
3/28/19 / 11:10	Cal. pH # 10.00	L	10.00	19.8	10.00	19.8	10.00	bulK		

Meter Myron L Company
Ultrameter II
serial # 6222066

PH&E Gateway
pH reading on COC 3/28/19

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/28/2019 14:15**
Project:	**pH Sampling (March 2019)**	Date Logged:	**3/28/2019**
		Received by:	Kena Ponce
WorkOrder №:	**1903D90** 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: 2.6°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; 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: Sample E-001 was not received.

Attachment 8b
Laboratory Results
Semi-annual Monitoring of Combined Site Stream
(E-001)

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1903D92

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Semi- Annual Sampling (March 2019)

Project Received: 03/28/2019

Analytical Report reviewed & approved for release on 04/04/2019 by:

Heidi Fruhlinger
Project Manager

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Semi- Annual Sampling (March 2019)
WorkOrder: 1903D92

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: Semi- Annual Sampling (March 2019)
WorkOrder: 1903D92

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
F3	The surrogate standard recovery and/or RPD is outside of acceptance limits.

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E608/SW3620B
Date Prepared:	3/29/19	**Analytical Method:**	E608
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Organochlorine Pesticides + PCBs w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001D	Water	03/28/2019 11:45	GC22 03291914.D	175445

Analytes	Result	MDL	RL	DF	Date Analyzed
Aldrin	ND	0.00028	0.0010	1	03/29/2019 21:33
a-BHC	ND	0.00031	0.0010	1	03/29/2019 21:33
b-BHC	ND	0.00069	0.0010	1	03/29/2019 21:33
d-BHC	ND	0.00014	0.0010	1	03/29/2019 21:33
g-BHC	ND	0.00045	0.0010	1	03/29/2019 21:33
Chlordane (Technical)	ND	0.0023	0.020	1	03/29/2019 21:33
p,p-DDD	ND	0.00011	0.0010	1	03/29/2019 21:33
p,p-DDE	ND	0.00018	0.0010	1	03/29/2019 21:33
p,p-DDT	ND	0.00017	0.0010	1	03/29/2019 21:33
Dieldrin	ND	0.00014	0.0010	1	03/29/2019 21:33
Endosulfan I	ND	0.00011	0.0010	1	03/29/2019 21:33
Endosulfan II	ND	0.00046	0.0010	1	03/29/2019 21:33
Endosulfan sulfate	ND	0.00033	0.0020	1	03/29/2019 21:33
Endrin	ND	0.00018	0.0010	1	03/29/2019 21:33
Endrin aldehyde	ND	0.00053	0.0010	1	03/29/2019 21:33
Heptachlor	ND	0.00041	0.0010	1	03/29/2019 21:33
Heptachlor epoxide	ND	0.00025	0.0010	1	03/29/2019 21:33
Toxaphene	ND	0.0020	0.020	1	03/29/2019 21:33
Aroclor1016	ND	0.0019	0.020	1	03/29/2019 21:33
Aroclor1221	ND	0.0024	0.020	1	03/29/2019 21:33
Aroclor1232	ND	0.0038	0.020	1	03/29/2019 21:33
Aroclor1242	ND	0.0028	0.020	1	03/29/2019 21:33
Aroclor1248	ND	0.0018	0.020	1	03/29/2019 21:33
Aroclor1254	ND	0.0015	0.020	1	03/29/2019 21:33
Aroclor1260	ND	0.0028	0.020	1	03/29/2019 21:33
PCBs, total	ND	NA	0.020	1	03/29/2019 21:33

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	92	14-168	03/29/2019 21:33

Analyst(s): LT

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E624
Date Prepared:	3/29/19	**Analytical Method:**	E624
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Acrolein, Acrylonitrile, & 2-Chloroethyl Vinyl Ether

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001B	Water	03/28/2019 11:45	GC28 03291907.D	175446

Analytes	Result	RL	DF	Date Analyzed
Acrolein (Propenal)	ND	5.0	1	03/29/2019 12:57
Acrylonitrile	ND	2.0	1	03/29/2019 12:57
2-Chloroethyl Vinyl Ether	ND	1.0	1	03/29/2019 12:57

Surrogates	REC (%)	Limits	
Dibromofluoromethane	90	65-165	03/29/2019 12:57

Analyst(s): TK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E624
Date Prepared:	3/30/19	**Analytical Method:**	E624
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001A	Water	03/28/2019 11:45	GC38 03291960.D	175504

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	0.50	1	03/30/2019 22:36
Bromodichloromethane	**0.96**	0.50	1	03/30/2019 22:36
Bromoform	ND	0.50	1	03/30/2019 22:36
Bromomethane	ND	0.50	1	03/30/2019 22:36
Carbon tetrachloride	ND	0.50	1	03/30/2019 22:36
Chlorobenzene	ND	0.50	1	03/30/2019 22:36
Chloroethane	ND	0.50	1	03/30/2019 22:36
Chloroform	**1.1**	0.50	1	03/30/2019 22:36
Chloromethane	ND	0.50	1	03/30/2019 22:36
Dibromochloromethane	**0.51**	0.50	1	03/30/2019 22:36
1,2-Dibromoethane (EDB)	ND	0.50	1	03/30/2019 22:36
1,2-Dichlorobenzene	ND	0.50	1	03/30/2019 22:36
1,3-Dichlorobenzene	ND	0.50	1	03/30/2019 22:36
1,4-Dichlorobenzene	ND	0.50	1	03/30/2019 22:36
1,1-Dichloroethane	ND	0.50	1	03/30/2019 22:36
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/30/2019 22:36
1,1-Dichloroethene	ND	0.50	1	03/30/2019 22:36
trans-1,2-Dichloroethene	ND	0.50	1	03/30/2019 22:36
1,2-Dichloropropane	ND	0.50	1	03/30/2019 22:36
cis-1,3-Dichloropropene	ND	0.50	1	03/30/2019 22:36
trans-1,3-Dichloropropene	ND	0.50	1	03/30/2019 22:36
Ethylbenzene	ND	0.50	1	03/30/2019 22:36
Methyl-t-butyl ether (MTBE)	ND	0.50	1	03/30/2019 22:36
Methylene chloride	ND	2.0	1	03/30/2019 22:36
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/30/2019 22:36
Tetrachloroethene	ND	0.50	1	03/30/2019 22:36
Toluene	ND	0.50	1	03/30/2019 22:36
1,2,4-Trichlorobenzene	ND	0.50	1	03/30/2019 22:36
1,1,1-Trichloroethane	ND	0.50	1	03/30/2019 22:36
1,1,2-Trichloroethane	ND	0.50	1	03/30/2019 22:36
Trichloroethene	ND	0.50	1	03/30/2019 22:36
Trichlorofluoromethane	ND	0.50	1	03/30/2019 22:36
Vinyl chloride	ND	0.50	1	03/30/2019 22:36
m,p-Xylene	ND	0.50	1	03/30/2019 22:36
o-Xylene	ND	0.50	1	03/30/2019 22:36
Xylenes, Total	ND	0.50	1	03/30/2019 22:36

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E624
Date Prepared:	3/30/19	**Analytical Method:**	E624
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001A	Water	03/28/2019 11:45	GC38 03291960.D	175504

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	91	81-144		03/30/2019 22:36
Toluene-d8	91	85-135		03/30/2019 22:36
4-BFB	84	63-145		03/30/2019 22:36

Analyst(s): TK

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E625
Date Prepared:	3/29/19	**Analytical Method:**	E625
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001C	Water	03/28/2019 11:45	GC17 03291929.D	175353

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0095	1	03/29/2019 22:30
Acenaphthylene	ND	0.0095	1	03/29/2019 22:30
Anthracene	ND	0.0095	1	03/29/2019 22:30
Benzidine	ND	4.8	1	03/29/2019 22:30
Benzo (a) anthracene	ND	0.019	1	03/29/2019 22:30
Benzo (a) pyrene	ND	0.0095	1	03/29/2019 22:30
Benzo (b) fluoranthene	ND	0.0048	1	03/29/2019 22:30
Benzo (g,h,i) perylene	ND	0.019	1	03/29/2019 22:30
Benzo (k) fluoranthene	ND	0.0095	1	03/29/2019 22:30
Benzyl Alcohol	ND	4.8	1	03/29/2019 22:30
Bis (2-chloroethoxy) Methane	ND	0.95	1	03/29/2019 22:30
Bis (2-chloroethyl) Ether	ND	0.0048	1	03/29/2019 22:30
Bis (2-chloroisopropyl) Ether	ND	0.0095	1	03/29/2019 22:30
Bis (2-ethylhexyl) Adipate	ND	2.9	1	03/29/2019 22:30
Bis (2-ethylhexyl) Phthalate	**0.27**	0.038	1	03/29/2019 22:30
4-Bromophenyl Phenyl Ether	ND	0.95	1	03/29/2019 22:30
Butylbenzyl Phthalate	ND	0.19	1	03/29/2019 22:30
4-Chloroaniline	ND	0.019	1	03/29/2019 22:30
4-Chloro-3-methylphenol	ND	0.95	1	03/29/2019 22:30
2-Chloronaphthalene	ND	0.95	1	03/29/2019 22:30
2-Chlorophenol	ND	0.019	1	03/29/2019 22:30
4-Chlorophenyl Phenyl Ether	ND	0.95	1	03/29/2019 22:30
Chrysene	ND	0.0095	1	03/29/2019 22:30
Dibenzo (a,h) anthracene	ND	0.0095	1	03/29/2019 22:30
Dibenzofuran	ND	0.95	1	03/29/2019 22:30
Di-n-butyl Phthalate	**0.048**	0.019	1	03/29/2019 22:30
1,2-Dichlorobenzene	ND	1.9	1	03/29/2019 22:30
1,3-Dichlorobenzene	ND	1.9	1	03/29/2019 22:30
1,4-Dichlorobenzene	ND	1.9	1	03/29/2019 22:30
3,3-Dichlorobenzidine	ND	0.019	1	03/29/2019 22:30
2,4-Dichlorophenol	**0.11**	0.0095	1	03/29/2019 22:30
Diethyl Phthalate	**0.031**	0.019	1	03/29/2019 22:30
2,4-Dimethylphenol	ND	0.95	1	03/29/2019 22:30
Dimethyl Phthalate	ND	0.019	1	03/29/2019 22:30
4,6-Dinitro-2-methylphenol	ND	4.8	1	03/29/2019 22:30
2,4-Dinitrophenol	ND	0.48	1	03/29/2019 22:30
2,4-Dinitrotoluene	ND	0.024	1	03/29/2019 22:30

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E625
Date Prepared:	3/29/19	**Analytical Method:**	E625
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001C	Water	03/28/2019 11:45	GC17 03291929.D	175353

Analytes	Result	RL	DF	Date Analyzed
2,6-Dinitrotoluene	ND	0.0095	1	03/29/2019 22:30
Di-n-octyl Phthalate	ND	0.12	1	03/29/2019 22:30
1,2-Diphenylhydrazine	ND	0.95	1	03/29/2019 22:30
Fluoranthene	ND	0.0095	1	03/29/2019 22:30
Fluorene	ND	0.0095	1	03/29/2019 22:30
Hexachlorobenzene	ND	0.0048	1	03/29/2019 22:30
Hexachlorobutadiene	ND	0.0095	1	03/29/2019 22:30
Hexachlorocyclopentadiene	ND	4.8	1	03/29/2019 22:30
Hexachloroethane	ND	0.0095	1	03/29/2019 22:30
Indeno (1,2,3-cd) pyrene	ND	0.019	1	03/29/2019 22:30
Isophorone	ND	0.95	1	03/29/2019 22:30
2-Methylnaphthalene	ND	0.0095	1	03/29/2019 22:30
2-Methylphenol (o-Cresol)	ND	0.95	1	03/29/2019 22:30
3 & 4-Methylphenol (m,p-Cresol)	**2.4**	0.95	1	03/29/2019 22:30
Naphthalene	**0.013**	0.0095	1	03/29/2019 22:30
2-Nitroaniline	ND	4.8	1	03/29/2019 22:30
3-Nitroaniline	ND	4.8	1	03/29/2019 22:30
4-Nitroaniline	ND	4.8	1	03/29/2019 22:30
Nitrobenzene	ND	0.95	1	03/29/2019 22:30
2-Nitrophenol	ND	4.8	1	03/29/2019 22:30
4-Nitrophenol	ND	4.8	1	03/29/2019 22:30
N-Nitrosodiphenylamine	ND	0.95	1	03/29/2019 22:30
N-Nitrosodi-n-propylamine	ND	0.95	1	03/29/2019 22:30
Pentachlorophenol	ND	0.24	1	03/29/2019 22:30
Phenanthrene	ND	0.019	1	03/29/2019 22:30
Phenol	**22**	0.019	1	03/29/2019 22:30
Pyrene	ND	0.019	1	03/29/2019 22:30
Pyridine	ND	0.95	1	03/29/2019 22:30
1,2,4-Trichlorobenzene	ND	0.95	1	03/29/2019 22:30
2,4,5-Trichlorophenol	ND	0.048	1	03/29/2019 22:30
2,4,6-Trichlorophenol	ND	0.048	1	03/29/2019 22:30
N-Nitrosodimethylamine	ND	4.8	1	03/29/2019 22:30

(Cont.)

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Received:	3/28/19 13:55	**Extraction Method:**	E625
Date Prepared:	3/29/19	**Analytical Method:**	E625
Project:	Semi- Annual Sampling (March 2019)	**Unit:**	µg/L

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D92-001C	Water	03/28/2019 11:45	GC17 03291929.D	175353

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	53	1-92		03/29/2019 22:30
Phenol-d5	43	5-104		03/29/2019 22:30
Nitrobenzene-d5	63	4-143		03/29/2019 22:30
2-Fluorobiphenyl	55	9-134		03/29/2019 22:30
2,4,6-Tribromophenol	113	1-159		03/29/2019 22:30
Terphenyl-d14	53	5-150		03/29/2019 22:30

Analyst(s): REB

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/29/19	**BatchID:**	175445
Date Analyzed:	3/29/19 - 3/30/19	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175445

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	N/A	0.020	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.050			0.050	100	35-113

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/29/19	**BatchID:**	175445
Date Analyzed:	3/29/19 - 3/30/19	**Extraction Method:**	E608/SW3620B
Instrument:	GC22	**Analytical Method:**	E608
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175445

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	0.043	0.046	0.050	86	92	50-103	6.25	20
a-BHC	0.045	0.047	0.050	91	93	63-131	2.87	20
b-BHC	0.041	0.043	0.050	82	87	56-112	5.94	20
d-BHC	0.048	0.050	0.050	96	101	63-132	5.31	20
g-BHC	0.044	0.046	0.050	88	92	61-135	4.57	20
a-Chlordane	0.041	0.045	0.050	82	89	54-113	8.37	20
g-Chlordane	0.045	0.048	0.050	90	96	55-117	7.31	20
p,p-DDD	0.042	0.045	0.050	84	89	56-135	5.79	20
p,p-DDE	0.044	0.047	0.050	88	94	56-131	6.87	20
p,p-DDT	0.042	0.044	0.050	83	88	47-153	5.29	20
Dieldrin	0.050	0.054	0.050	100	109	67-152	8.05	20
Endosulfan I	0.046	0.051	0.050	92	102	56-137	10.9	20
Endosulfan II	0.044	0.047	0.050	88	93	50-113	6.16	20
Endosulfan sulfate	0.043	0.045	0.050	86	90	57-121	5.39	20
Endrin	0.050	0.053	0.050	99	106	60-150	6.79	20
Endrin aldehyde	0.038	0.047	0.050	75	94	47-121	21.9,F2	20
Endrin ketone	0.043	0.045	0.050	86	90	48-130	4.74	20
Heptachlor	0.045	0.047	0.050	90	94	46-133	4.78	20
Heptachlor epoxide	0.043	0.046	0.050	85	91	54-105	7.13	20
Methoxychlor	0.055	0.056	0.050	110	112	54-135	1.36	20
Aroclor1016	0.14	0.15	0.15	95	98	54-103	3.02	20
Aroclor1260	0.15	0.15	0.15	100	98	42-121	1.10	20
Surrogate Recovery								
Decachlorobiphenyl	0.048	0.052	0.050	97	104	35-113	4.59	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/29/19 - 3/30/19	**BatchID:**	175446
Date Analyzed:	3/29/19 - 3/30/19	**Extraction Method:**	E624
Instrument:	GC28	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175446 1903D92-001BMS

QC Summary Report for E624

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acrolein (Propenal)	ND	2.5	5.0	-	-	-
Acrylonitrile	ND	1.0	2.0	-	-	-
2-Chloroethyl Vinyl Ether	ND	0.50	1.0	-	-	-
Surrogate Recovery						
Dibromofluoromethane	22			25	90	68-160

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acrolein (Propenal)	19	17	20	93	85	71-140	9.12	20
Acrylonitrile	22	22	20	111	111	67-145	0	20
2-Chloroethyl Vinyl Ether	21	21	20	107	106	70-124	0.942	20
Surrogate Recovery								
Dibromofluoromethane	23	22	25	91	90	68-160	1.17	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acrolein (Propenal)	1	14	N/A	20	ND	70	N/A	24-149	N/A	-
Acrylonitrile	1	19	N/A	20	ND	93	N/A	50-151	N/A	-
2-Chloroethyl Vinyl Ether	1	18	N/A	20	ND	90	N/A	66-140	N/A	-
Surrogate Recovery										
Dibromofluoromethane	1	21	N/A	25		84	N/A	65-165	N/A	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/30/19	**BatchID:**	175504
Date Analyzed:	3/30/19	**Extraction Method:**	E624
Instrument:	GC38	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175504

QC Summary Report for E624

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzene	ND	0.051	0.20	-	-	-
Bromodichloromethane	ND	0.20	0.50	-	-	-
Bromoform	ND	0.066	0.50	-	-	-
Bromomethane	ND	0.16	0.50	-	-	-
Carbon tetrachloride	ND	0.069	0.50	-	-	-
Chlorobenzene	ND	0.050	0.50	-	-	-
Chloroethane	ND	0.31	0.50	-	-	-
Chloroform	ND	0.064	0.50	-	-	-
Chloromethane	ND	0.13	0.50	-	-	-
Dibromochloromethane	ND	0.080	0.50	-	-	-
1,2-Dibromoethane (EDB)	ND	0.12	0.50	-	-	-
1,2-Dichlorobenzene	ND	0.080	0.50	-	-	-
1,3-Dichlorobenzene	ND	0.071	0.50	-	-	-
1,4-Dichlorobenzene	ND	0.072	0.50	-	-	-
1,1-Dichloroethane	ND	0.060	0.50	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.090	0.50	-	-	-
1,1-Dichloroethene	ND	0.086	0.50	-	-	-
trans-1,2-Dichloroethene	ND	0.060	0.50	-	-	-
1,2-Dichloropropane	ND	0.055	0.50	-	-	-
cis-1,3-Dichloropropene	ND	0.090	0.50	-	-	-
trans-1,3-Dichloropropene	ND	0.070	0.50	-	-	-
Ethylbenzene	ND	0.050	0.50	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.10	0.50	-	-	-
Methylene chloride	ND	1.2	2.0	-	-	-
Styrene	ND	0.59	2.0	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.11	0.50	-	-	-
Tetrachloroethene	ND	0.082	0.50	-	-	-
Toluene	ND	0.25	0.50	-	-	-
1,2,4-Trichlorobenzene	ND	0.086	0.50	-	-	-
1,1,1-Trichloroethane	ND	0.050	0.50	-	-	-
1,1,2-Trichloroethane	ND	0.18	0.50	-	-	-
Trichloroethene	ND	0.060	0.50	-	-	-
Trichlorofluoromethane	ND	0.047	0.50	-	-	-
Vinyl chloride	ND	0.070	0.50	-	-	-
m,p-Xylene	ND	0.11	0.50	-	-	-
o-Xylene	ND	0.060	0.50	-	-	-
Xylenes, Total	ND	N/A	0.50	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/30/19	**BatchID:**	175504
Date Analyzed:	3/30/19	**Extraction Method:**	E624
Instrument:	GC38	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175504

QC Summary Report for E624

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	22			25	89	82-142
Toluene-d8	23			25	91	85-137
4-BFB	2.2			2.5	87	66-144

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/30/19	**BatchID:**	175504
Date Analyzed:	3/30/19	**Extraction Method:**	E624
Instrument:	GC38	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175504

QC Summary Report for E624

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	0.87	0.94	1	87	94	71-120	7.56	20
Bromodichloromethane	0.89	0.96	1	89	96	67-120	6.91	20
Bromoform	9.2	9.6	10	92	96	59-121	3.80	20
Bromomethane	9.3	9.9	10	93	99	44-175	6.66	20
Carbon tetrachloride	11	11	10	105	115	73-117	8.61	20
Chlorobenzene	9.2	9.8	10	92	98	73-119	6.00	20
Chloroethane	8.5	9.2	10	85	92	60-144	8.27	20
Chloroform	0.94	1.0	1	94	100	72-120	6.13	20
Chloromethane	8.9	9.8	10	89	98	28-145	9.62	20
Dibromochloromethane	0.72	0.77	1	72	77	66-122	6.96	20
1,2-Dibromoethane (EDB)	0.43	0.45	0.50	87	90	68-117	4.27	20
1,2-Dichlorobenzene	8.9	9.5	10	89	95	70-121	6.24	20
1,3-Dichlorobenzene	8.8	9.3	10	88	93	69-125	5.44	20
1,4-Dichlorobenzene	9.0	9.6	10	90	96	67-123	6.71	20
1,1-Dichloroethane	9.0	9.6	10	90	96	72-121	7.47	20
1,2-Dichloroethane (1,2-DCA)	0.90	0.94	1	90	94	64-120	4.57	20
1,1-Dichloroethene	0.88	0.96	1	88	96	76-123	8.91	20
trans-1,2-Dichloroethene	9.5	10	10	95	102	74-124	7.60	20
1,2-Dichloropropane	9.1	9.7	10	91	97	70-120	6.51	20
cis-1,3-Dichloropropene	10	11	10	101	107	69-121	6.07	20
trans-1,3-Dichloropropene	10	11	10	100	105	70-121	4.91	20
Ethylbenzene	8.7	9.4	10	87	94	75-116	7.63	20
Methyl-t-butyl ether (MTBE)	9.0	9.4	10	90	94	64-121	5.01	20
Methylene chloride	8.9	9.4	10	89	94	66-115	5.68	20
1,1,2,2-Tetrachloroethane	0.90	0.94	1	90	94	58-123	4.10	20
Tetrachloroethene	0.96	1.0	1	96	105	72-118	8.34	20
Toluene	8.7	9.3	10	87	93	73-111	6.89	20
1,2,4-Trichlorobenzene	9.5	10	10	95	100	66-128	4.74	20
1,1,1-Trichloroethane	9.9	11	10	99	107	72-118	8.09	20
1,1,2-Trichloroethane	9.3	9.8	10	93	98	66-118	5.11	20
Trichloroethene	9.7	10	10	97	104	71-121	7.64	20
Trichlorofluoromethane	9.8	11	10	98	106	59-125	8.16	20
Vinyl chloride	0.77	0.84	1	77	84	60-138	9.07	20
m,p-Xylene	20	20	20	98	98	74-118	0	20
o-Xylene	8.9	9.5	10	89	95	73-119	6.31	20
Xylenes, Total	29	29	30	95	97	74-118	1.58	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/30/19	**BatchID:**	175504
Date Analyzed:	3/30/19	**Extraction Method:**	E624
Instrument:	GC38	**Analytical Method:**	E624
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175504

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	24	24	25	97	98	82-142	1.34	20
Toluene-d8	23	23	25	91	91	85-137	0	20
4-BFB	2.2	2.1	2.5	86	86	66-144	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

QC Summary Report for E625

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Benzoic Acid	ND	2.7	5.0	-	-	-
Acenaphthene	ND	0.0051	0.010	-	-	-
Acenaphthylene	ND	0.0050	0.010	-	-	-
Acetochlor	ND	0.49	2.0	-	-	-
Anthracene	ND	0.0043	0.010	-	-	-
Benzidine	ND	0.55	5.0	-	-	-
Benzo (a) anthracene	ND	0.019	0.020	-	-	-
Benzo (a) pyrene	ND	0.0064	0.010	-	-	-
Benzo (b) fluoranthene	ND	0.0040	0.0050	-	-	-
Benzo (g,h,i) perylene	ND	0.0071	0.020	-	-	-
Benzo (k) fluoranthene	ND	0.0063	0.010	-	-	-
Benzyl Alcohol	ND	2.9	5.0	-	-	-
1,1-Biphenyl	ND	0.012	0.050	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.84	1.0	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0021	0.0050	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0089	0.010	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.39	3.0	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.034	0.040	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.45	1.0	-	-	-
Butylbenzyl Phthalate	ND	0.097	0.20	-	-	-
4-Chloroaniline	ND	0.0051	0.020	-	-	-
4-Chloro-3-methylphenol	ND	0.55	1.0	-	-	-
2-Chloronaphthalene	ND	0.57	1.0	-	-	-
2-Chlorophenol	ND	0.0086	0.020	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.48	1.0	-	-	-
Chrysene	ND	0.0093	0.010	-	-	-
Dibenzo (a,h) anthracene	ND	0.0094	0.010	-	-	-
Dibenzofuran	ND	0.37	1.0	-	-	-
Di-n-butyl Phthalate	ND	0.0068	0.020	-	-	-
1,2-Dichlorobenzene	ND	1.1	2.0	-	-	-
1,3-Dichlorobenzene	ND	1.2	2.0	-	-	-
1,4-Dichlorobenzene	ND	1.0	2.0	-	-	-
3,3-Dichlorobenzidine	ND	0.0081	0.020	-	-	-
2,4-Dichlorophenol	ND	0.0061	0.010	-	-	-
Diethyl Phthalate	ND	0.015	0.020	-	-	-
2,4-Dimethylphenol	ND	0.81	1.0	-	-	-
Dimethyl Phthalate	ND	0.011	0.020	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.8	5.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

QC Summary Report for E625

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrophenol	ND	0.15	0.50	-	-	-
2,4-Dinitrotoluene	ND	0.0066	0.025	-	-	-
2,6-Dinitrotoluene	ND	0.0053	0.010	-	-	-
Di-n-octyl Phthalate	ND	0.020	0.12	-	-	-
1,2-Diphenylhydrazine	ND	0.40	1.0	-	-	-
Fluoranthene	ND	0.0068	0.010	-	-	-
Fluorene	ND	0.0064	0.010	-	-	-
Hexachlorobenzene	ND	0.0043	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0035	0.010	-	-	-
Hexachlorocyclopentadiene	ND	0.48	5.0	-	-	-
Hexachloroethane	ND	0.0068	0.010	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0065	0.020	-	-	-
Isophorone	ND	0.66	1.0	-	-	-
2-Methylnaphthalene	ND	0.0053	0.010	-	-	-
2-Methylphenol (o-Cresol)	ND	0.53	1.0	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.41	1.0	-	-	-
Naphthalene	ND	0.0048	0.010	-	-	-
2-Nitroaniline	ND	1.8	5.0	-	-	-
3-Nitroaniline	ND	3.1	5.0	-	-	-
4-Nitroaniline	ND	2.7	5.0	-	-	-
Nitrobenzene	ND	0.95	1.0	-	-	-
2-Nitrophenol	ND	2.4	5.0	-	-	-
4-Nitrophenol	ND	1.1	5.0	-	-	-
N-Nitrosodiphenylamine	ND	0.41	1.0	-	-	-
N-Nitrosodi-n-propylamine	ND	0.65	1.0	-	-	-
Pentachlorophenol	ND	0.055	0.25	-	-	-
Phenanthrene	ND	0.0055	0.020	-	-	-
Phenol	ND	0.0088	0.020	-	-	-
Pyrene	ND	0.0057	0.020	-	-	-
Pyridine	ND	0.49	1.0	-	-	-
1,2,4-Trichlorobenzene	ND	0.089	1.0	-	-	-
2,4,5-Trichlorophenol	ND	0.0061	0.050	-	-	-
2,4,6-Trichlorophenol	ND	0.0049	0.050	-	-	-
1-Methylnaphthalene	ND	0.0052	0.010	-	-	-
N-Nitrosodimethylamine	ND	2.8	5.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

QC Summary Report for E625

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	4.2			5	84	36-131
Phenol-d5	4.5			5	90	43-149
Nitrobenzene-d5	4.0			5	81	39-150
2-Fluorobiphenyl	3.5			5	70	43-133
2,4,6-Tribromophenol	4.9			5	98	42-147
4-Terphenyl-d14	3.8			5	75	44-124

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

QC Summary Report for E625

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.43	0.41	0.50	86	82	55-112	4.58	25
Acenaphthylene	0.46	0.43	0.50	92	87	53-109	5.80	25
Anthracene	0.44	0.42	0.50	88	85	57-112	3.84	25
Benzidine	28	26	50	55	53	33-87	5.01	25
Benzo (a) anthracene	0.40	0.39	0.50	81	78	54-103	3.95	25
Benzo (a) pyrene	0.49	0.48	0.50	97	95	50-116	2.21	25
Benzo (b) fluoranthene	0.48	0.47	0.50	95	93	49-111	2.03	25
Benzo (g,h,i) perylene	0.40	0.39	0.50	79	78	48-106	1.72	25
Benzo (k) fluoranthene	0.44	0.42	0.50	89	84	52-111	5.30	25
Benzyl Alcohol	41	40	50	81	80	38-130	1.88	25
Bis (2-chloroethoxy) Methane	8.0	8.1	10	80	81	52-120	0.193	25
Bis (2-chloroethyl) Ether	0.39	0.37	0.50	77	74	37-142	3.74	25
Bis (2-chloroisopropyl) Ether	0.41	0.40	0.50	82	79	40-140	2.88	25
Bis (2-ethylhexyl) Adipate	7.9	7.6	10	79	76	49-109	4.07	25
Bis (2-ethylhexyl) Phthalate	0.43	0.41	0.50	87	81	39-136	6.29	25
4-Bromophenyl Phenyl Ether	8.3	8.0	10	83	80	53-108	4.30	25
Butylbenzyl Phthalate	0.45	0.43	0.50	89	85	48-124	4.78	25
4-Chloroaniline	0.45	0.42	0.50	90	85	57-121	6.43	25
4-Chloro-3-methylphenol	9.9	9.4	10	99	94	60-126	5.66	25
2-Chloronaphthalene	9.1	8.8	10	91	88	54-109	3.60	25
2-Chlorophenol	0.39	0.37	0.50	78	75	51-117	4.53	25
4-Chlorophenyl Phenyl Ether	8.0	7.9	10	80	79	59-108	1.94	25
Chrysene	0.41	0.39	0.50	81	78	53-104	3.60	25
Dibenzo (a,h) anthracene	0.45	0.44	0.50	90	88	51-112	2.55	25
Dibenzofuran	8.5	8.1	10	85	81	57-108	4.85	25
Di-n-butyl Phthalate	0.44	0.42	0.50	88	84	52-121	5.04	25
1,2-Dichlorobenzene	7.7	7.5	10	77	75	43-125	2.31	25
1,3-Dichlorobenzene	7.3	7.1	10	73	71	55-108	3.58	25
1,4-Dichlorobenzene	6.8	6.7	10	68	67	52-108	1.86	25
3,3-Dichlorobenzidine	0.44	0.42	0.50	89	85	52-118	4.75	25
2,4-Dichlorophenol	9.0	8.5	10	90	85	56-121	6.21	25
Diethyl Phthalate	0.43	0.41	0.50	86	82	56-122	4.75	25
2,4-Dimethylphenol	8.7	8.1	10	87	81	47-112	6.51	25
Dimethyl Phthalate	0.41	0.38	0.50	81	77	49-121	5.54	25
4,6-Dinitro-2-methylphenol	40	38	50	81	76	33-117	5.17	25
2,4-Dinitrophenol	2.2	2.2	2.5	89	87	29-114	2.20	25
2,4-Dinitrotoluene	0.052	0.42	0.50	10, F2	84	59-128	156,F2	25
2,6-Dinitrotoluene	0.47	0.43	0.50	93	87	56-118	7.16	25

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

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	0.59	0.55	0.50	117	111	36-152	5.52	25
1,2-Diphenylhydrazine	8.0	7.6	10	80	76	53-110	4.30	25
Fluoranthene	0.49	0.47	0.50	98	93	56-117	4.64	25
Fluorene	0.46	0.44	0.50	92	87	58-119	4.95	25
Hexachlorobenzene	0.39	0.38	0.50	78	76	51-107	3.55	25
Hexachlorobutadiene	0.38	0.36	0.50	76	73	54-109	4.77	25
Hexachlorocyclopentadiene	31	30	50	62	60	26-107	2.59	25
Hexachloroethane	0.35	0.34	0.50	71	68	52-109	4.06	25
Indeno (1,2,3-cd) pyrene	0.42	0.41	0.50	84	82	50-107	2.59	25
Isophorone	8.8	8.3	10	88	83	58-120	6.85	25
2-Methylnaphthalene	0.50	0.47	0.50	100	93	51-132	6.84	25
2-Methylphenol (o-Cresol)	8.2	7.4	10	82	74	47-127	11.0	25
3 & 4-Methylphenol (m,p-Cresol)	8.9	8.2	10	89	82	51-126	7.22	25
Naphthalene	0.39	0.37	0.50	79	74	49-116	5.36	25
2-Nitroaniline	45	43	50	89	86	56-126	3.35	25
3-Nitroaniline	46	44	50	92	88	57-124	4.07	25
4-Nitroaniline	47	44	50	93	88	58-130	5.15	25
Nitrobenzene	7.1	6.7	10	71	67	52-119	5.68	25
2-Nitrophenol	45	41	50	89	83	60-119	7.51	25
4-Nitrophenol	46	44	50	92	89	34-143	3.46	25
N-Nitrosodiphenylamine	7.8	7.6	10	78	76	56-106	2.03	25
N-Nitrosodi-n-propylamine	8.5	8.1	10	85	81	55-122	4.09	25
Pentachlorophenol	2.2	2.2	2.5	89	88	45-119	1.34	25
Phenanthrene	0.42	0.41	0.50	83	81	56-108	0.00910	25
Phenol	1.6	1.5	2	79	75	50-118	0.0720	25
Pyrene	0.41	0.40	0.50	82	80	49-104	2.62	25
Pyridine	6.2	5.9	10	62	59	36-96	5.53	25
1,2,4-Trichlorobenzene	8.2	7.7	10	82	77	54-112	5.47	25
2,4,5-Trichlorophenol	0.49	0.50	0.50	99	99	52-119	0	25
2,4,6-Trichlorophenol	0.47	0.45	0.50	95	89	53-115	5.76	25
N-Nitrosodimethylamine	36	34	50	72	68	42-121	4.52	25

(Cont.)

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D92
Date Prepared:	3/28/19	**BatchID:**	175353
Date Analyzed:	3/28/19	**Extraction Method:**	E625
Instrument:	GC21	**Analytical Method:**	E625
Matrix:	Water	**Unit:**	µg/L
Project:	Semi- Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175353

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	3.9	4.0	5	78	80	36-131	1.97	25
Phenol-d5	4.2	4.3	5	84	87	43-149	0.139	25
Nitrobenzene-d5	4.1	4.3	5	82	85	39-150	4.31	25
2-Fluorobiphenyl	4.2	4.3	5	83	86	43-133	2.70	25
2,4,6-Tribromophenol	4.5	4.6	5	90	92	42-147	2.08	25
4-Terphenyl-d14	3.8	3.8	5	76	76	44-124	0	25

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1903D92 **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: Semi- Annual Sampling (March 2019)

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

Requested TAT: 5 days;

Date Received: **03/28/2019**
Date Logged: **03/28/2019**

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
1903D92-001	E-001	Water	3/28/2019 11:45	☐	D	A	B	C								

Test Legend:

1	608_W [J]	2	624_W	3	624ACR+2CEVE_W	4	625_SCSM_W
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius **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- Annual Sampling (March 2019) **Work Order:** 1903D92

Client Contact: Angel Espiritu **QC Level:** LEVEL 2

Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/28/2019

☐ 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
1903D92-001A	E-001	Water	E624 (VOCs)	2	VOA w/ HCl	☐	3/28/2019 11:45	5 days	Present	☐	
1903D92-001B	E-001	Water	E624 (ACRO, ACRY, & 2-CEVE)	2	VOA, Unpres	☐	3/28/2019 11:45	5 days	Present	☐	
1903D92-001C	E-001	Water	E625 (SVOCs)	1	1LA Narrow Mouth, Unpres	☐	3/28/2019 11:45	5 days	Present	☐	
1903D92-001D	E-001	Water	E608 (OC Pesticides+PCBs w/ Florisil Clean-up)	1	1LA, Unpres	☐	3/28/2019 11:45	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.

1903092 pg 1 of 1

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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: Semi-Annual Sampling (March 2019)

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	TTO (USEPA 624-Volatile Organic Compounds)	TTO (USEPA 625- Semi Volatile Organic Compounds)	TTO (USEPA 608 – Organochlorine Pesticides and PCBs)
E-001		G	3/28/19	11:45	2	43 ml VOA	X			X			X			X		
E-001		G	3/28/19	11:45	2	43 ml VOA	X		X	X						X		
E-001		G	3/28/19	11:45	1	1L Amb	X		X	X							X	
E-001		G	3/28/19	11:45	1	1L Amb	X		X	X								X

Relinquished By:	Date:	Time:	Received By:
	3/28/19	13:55	Nancy Palacios
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2.6°C
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

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

Nancy Palacios
3·28·19 14:17

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/28/2019 13:55**
Project:	**Semi- Annual Sampling (March 2019)**	Date Logged:	**3/28/2019**
		Received by:	Nancy Palacios
WorkOrder №:	**1903D92** 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: 2.6°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; 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:

Attachment 8c

Laboratory Results
Annual Monitoring of Combined Site Stream
(E-001)

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1903D91

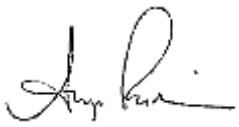
Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Annual Sampling (March 2019)

Project Received: 03/28/2019

Analytical Report reviewed & approved for release on 04/04/2019 by:



Angela Rydelius
Laboratory 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

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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Annual Sampling (March 2019)
WorkOrder: 1903D91

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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"When Quality Counts"

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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: Annual Sampling (March 2019)
WorkOrder: 1903D91

Analytical Qualifiers

S	Spike recovery outside accepted recovery limits
b1	Aqueous sample that contains greater than ~1 vol. % sediment
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:**	1903D91
Date Received:	3/28/19 13:55	**Extraction Method:**	E300.1
Date Prepared:	3/28/19	**Analytical Method:**	E300.1
Project:	Annual Sampling (March 2019)	**Unit:**	mg/L

Inorganic Anions by IC

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	**1903D91-001B**	**Water**	**03/28/2019 11:45**	**IC4 03291919.D**	**175385**

Analytes	Result	RL	DF	Date Analyzed
Sulfate	**54**	5.0	50	03/28/2019 22:17

Surrogates	REC (%)	Qualifiers	Limits	
Formate	0	S	90-115	03/28/2019 22:17

Analyst(s): AO Analytical Comments: c1,b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D91
Date Received:	3/28/19 13:55	**Extraction Method:**	SM4500-S^{-2} D-2000
Date Prepared:	4/1/19	**Analytical Method:**	SM4500 S^{-2} D
Project:	Annual Sampling (March 2019)	**Unit:**	mg/L

Total Sulfide - S

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1903D91-001A	Water	03/28/2019 11:45	SPECTROPHOTOMETER	175505

Analytes	Result	RL	DF	Date Analyzed
Total Sulfide	ND	0.050	1	04/01/2019 08:32

Analyst(s): RB

Analytical Comments: b1

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D91
Date Prepared:	3/28/19	**BatchID:**	175385
Date Analyzed:	3/28/19	**Extraction Method:**	E300.1
Instrument:	IC4	**Analytical Method:**	E300.1
Matrix:	Water	**Unit:**	mg/L
Project:	Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175385

QC Summary Report for E300.1

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Sulfate	ND	0.086	0.10	-	-	-
Surrogate Recovery						
Formate	0.10			0.10	103	85-115

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Sulfate	0.93	0.94	1	93	94	85-115	1.18	15
Surrogate Recovery								
Formate	0.10	0.10	0.10	101	102	90-115	1.10	10

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1903D91
Date Prepared:	4/1/19	**BatchID:**	175505
Date Analyzed:	4/1/19	**Extraction Method:**	SM4500-S^{-2} D-2000
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM4500 S^{-2} D
Matrix:	Water	**Unit:**	mg/L
Project:	Annual Sampling (March 2019)	**Sample ID:**	MB/LCS/LCSD-175505

QC Summary Report For SM4500 S-2D

Analyte	MB Result	MDL	RL			
Total Sulfide	ND	0.0073	0.050	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Sulfide	0.53	0.53	0.50	106	106	80-120	0	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1903D91 **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: Annual Sampling (March 2019)

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

Requested TAT: 5 days;

Date Received: **03/28/2019**
Date Logged: **03/28/2019**

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
1903D91-001	E-001	Water	3/28/2019 11:45	☐	B	A										

Test Legend:

1	300_1_W	2	SULFIDE_W	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Angela Rydelius **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:** Annual Sampling (March 2019) **Work Order:** 1903D91
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 3/28/2019

☐ 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
1903D91-001A	E-001	Water	SM4500S2D (Total Sulfide)	1	250mL HDPE w/ NaOH+ZnAc	☐	3/28/2019 11:45	5 days	1%+	☐	
1903D91-001B	E-001	Water	E300.1 (Inorganic Anions) <Sulfate>	1	125mL HDPE, unprsv.	☐	3/28/2019 11:45	5 days	1%+	☐	

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.

1903D91

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 (*March 2019)*

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	3/28/19	11:45	1	250-ml poly	X			X		X			X	X		
E-001		G	3/28/19	11:45	1	125-ml poly	X		X	X							X	

Relinquished By:	Date:	Time:	Received By:
	3/28/19	13:55	Nancy Palacios
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_____

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

Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**3/28/2019 13:55**
Project:	**Annual Sampling (March 2019)**	Date Logged:	**3/28/2019**
		Received by:	Nancy Palacios
WorkOrder №:	**1903D91** 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: 2.6°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; 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:

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, 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 June 30, 2019)

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, 2019, 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, WSAC Operating Months Report, Cycles of Concentration, Annual Flowmeter Calibration, and Copy of 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®

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

July 11, 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 June 30, 2019)

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, 2019, 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, WSAC Operating Months Report, Cycles of Concentration, Annual Flowmeter Calibration, and Copy of 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
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in June 30, 2019

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, 2023.

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	Annual Flowmeter Calibration

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, 2019

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 11, 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 June 30, 2019

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 this report - Q2 2019 SMR) (See Attachment 9)
_√__ 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:
None

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	6/12/2019	6/13/2019	6/13/2019					
TYPE	G	G	G					
STATION	E-001	E-001	E-001					
SMP.BY	Muskan	Muskan	Muskan					
PURPOSE	Compliance Quarterly (Q2)	Compliance Quarterly (Q2)	Compliance Quarterly (Q2)					

Units: mg/L

PARAMETERS	**LIMITS**								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.		7.04						
BOD				ND(<4.0)					
COD				ND(<10.0)					
TDS				118.0					
TSS				1.6					
Arsenic	0.15			0.00053					
Cadmium	0.1			ND(<0.0005)					
Chromium	0.5			ND(<0.0005)					
Copper	0.5			0.0038					
Iron				0.18					
Lead	0.5			ND(<0.0005)					
Mercury	0.003			ND(<0.0002)					
Molybdenum				0.0048					
Nickel	0.5			ND(<0.001)					
Selenium	0.25			ND(<0.0005)					
Silver	0.2			ND(<0.0005)					
Zinc	1.00			0.120					
Cyanide	0.2		ND(<0.001)						
Phenol	1.00		0.0141						
Ammonia	200		0.8						
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.0)	ND(<5.0)						
O&G Animal/Vegetable Oil	300	ND(<5.0)	ND(<5.0)						
TTO EPA 608									
TTO EPA 624									
TTO EPA 625									
TTO	2.00								
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

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

April 2019-June 2019

	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)
4/1/2019	35.0	0.0	NO	48,636	20.7	0	NO	351	48,987
4/2/2019	35.1	0.0	NO	18,560	20.3	0	NO	382	18,942
4/3/2019	0.0	0.0	NO		20.3	0	NO	387	387
4/4/2019	34.9	0.0	NO	6,819	0.1	0	NO	1	6,820
4/5/2019	0.0	0.0	NO		20.5	0	NO	389	389
4/6/2019	-0.2	0.0	NO		0.1	0	NO	1	1
4/7/2019	-0.4	0.0	NO		0.0	0	NO		-
4/8/2019	-0.4	0.0	NO		20.9	0	NO	385	385
4/9/2019	1.8	26.0	NO		20.8	26	NO	399	399
4/10/2019	34.8	0.0	NO	4,040	19.2	0	NO	399	4,439
4/11/2019	34.1	1.0	NO	614	19.9	1	NO	391	1,005
4/12/2019	-0.3	0.0	NO		20.6	0	NO	392	392
4/13/2019	-0.3	0.0	NO		0.0	0	NO		-
4/14/2019	-0.4	0.0	NO		0.0	0	NO		-
4/15/2019	-0.5	0.0	NO		20.5	0	NO	388	388
4/16/2019	-0.5	0.0	NO		20.6	0	NO	364	364
4/17/2019	-0.5	0.0	NO		21.5	0	NO	375	375
4/18/2019	-0.4	0.0	NO		0.0	0	NO	1	1
4/19/2019	-0.5	0.0	NO		20.7	0	NO	381	381
4/20/2019	-0.5	0.0	NO		0.1	0	NO		-
4/21/2019	34.9	0.0	NO	7,222	21.0	0	NO	368	7,590
4/22/2019	0.1	0.0	NO		0.1	0	NO	8	8
4/23/2019	-0.4	0.0	NO		21.1	0	NO	381	381
4/24/2019	-0.3	0.0	NO		21.4	0	NO	386	386
4/25/2019	34.8	0.0	NO	3,564	0.0	0	NO		3,564
4/26/2019	34.5	0.0	NO	39,773	20.8	0	NO	378	40,150
4/27/2019	34.9	0.0	NO	30,609	0.0	0	NO		30,609
4/28/2019	34.6	0.0	NO	12,021	0.0	0	NO		12,021
4/29/2019	35.0	0.0	NO	29,908	20.6	0	NO	390	30,298
4/30/2019	34.9	0.0	NO	25,515	20.5	0	NO	389	25,904
								Max Daily Flow (Limit: 51,120):	48,987
								Monthly Total:	**234,569**
5/1/2019	34.8	0.0	NO	21,993	0.1	0	NO	4	21,997
5/2/2019	35.9	2.0	NO	25,009	20.9	0	NO	375	25,385
5/3/2019	35.0	0.0	NO	16,184	0.0	0	NO		16,184
5/4/2019	34.8	0.0	NO	7,894	20.0	0	NO	374	8,268
5/5/2019	35.2	0.0	NO	19,112	0.1	0	NO	10	19,123
5/6/2019	35.1	0.0	NO	22,808	0.0	0	NO		22,808
5/7/2019	35.1	0.0	NO	21,938	21.0	0	NO	360	22,298
5/8/2019	35.2	0.0	NO	19,756	0.1	0	NO	5	19,760
5/9/2019	35.2	0.0	NO	24,195	21.2	0	NO	388	24,583
5/10/2019	35.0	0.0	NO	34,098	0.0	0	NO	388	34,486
5/11/2019	36.3	3.0	NO	38,373	19.9	1	NO	365	38,738
5/12/2019	34.8	0.0	NO	10,412	0.0	0	NO	8	10,420
5/13/2019	35.0	0.0	NO	27,537	0.1	0	NO		27,537
5/14/2019	34.8	0.0	NO	42,423	20.1	0	NO	400	42,823
5/15/2019	34.8	0.0	NO	39,879	20.0	0	NO	384	40,262
5/16/2019	34.7	0.0	NO	49,011	0.1	0	NO	7	49,018
5/17/2019	35.0	0.0	NO	11,485	0.1	0	NO		11,485
5/18/2019	34.8	0.0	NO	31,356	20.4	0	NO	376	31,732
5/19/2019	34.5	0.0	NO	18,155	0.1	0	NO	10	18,165
5/20/2019	34.3	0.0	NO	14,390	0.1	0	NO		14,390

PG&E Gateway Generating Station

Discharge Flow Data

April 2019-June 2019

	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)
5/21/2019	34.3	0.0	NO	7,266	20.6	0	NO	389	7,655
5/22/2019	34.5	0.0	NO	17,420	0.1	0	NO	7	17,427
5/23/2019	34.2	0.0	NO	1,779	20.6	0	NO	388	2,167
5/24/2019	34.6	0.0	NO	7,855	0.1	0	NO	5	7,860
5/25/2019	35.0	0.0	NO	7,308	0.1	0	NO		7,308
5/26/2019	34.8	0.0	NO	7,109	0.1	0	NO		7,109
5/27/2019	35.1	0.0	NO	8,733	20.6	0	NO	383	9,116
5/28/2019	0.1	0.0	NO		0.1	0	NO	3	3
5/29/2019	35.2	0.0	NO	7,483	20.6	0	NO	379	7,862
5/30/2019	35.0	0.0	NO	6,928	0.0	0	NO		6,928
5/31/2019	0.0	0.0	NO		20.9	0	NO	381	381
								Max Daily Flow (Limit: 51,120):	49,018
								Monthly Total:	**573,277**
6/1/2019	-0.3	0.0	NO	(942)	0.0	0	NO	(10)	(952)
6/2/2019	-0.4	0.0	NO	(1,019)	0.0	0	NO	(14)	(1,033)
6/3/2019	35.0	0.0	NO	32,423	21.6	0	NO	371	32,794
6/4/2019	35.0	0.0	NO	34,352	0.1	0	NO	(6)	34,346
6/5/2019	41.5	1.0	NO	11,823	20.2	0	NO	367	12,190
6/6/2019	41.5	3.0	NO	16,354	0.1	0	NO	4	16,359
6/7/2019	35.0	0.0	NO	14,446	20.5	0	NO	381	14,828
6/8/2019	0.2	0.0	NO	(455)	0.0	0	NO	0	(454)
6/9/2019	-0.3	0.0	NO	(846)	0.0	0	NO	(1)	(846)
6/10/2019	0.2	0.0	NO	(714)	20.3	0	NO	(1)	(715)
6/11/2019	0.6	1.0	NO	259	0.0	1	NO	2	261
6/12/2019	30.9	0.0	NO	23,158	21.3	0	NO	457	23,615
6/13/2019	34.6	0.0	NO	35,678	19.9	0	NO	400	36,077
6/14/2019	35.1	0.0	NO	23,539	0.1	0	NO	18	23,557
6/15/2019	35.0	0.0	NO	6,613	0.1	0	NO	8	6,622
6/16/2019	34.9	0.0	NO	6,488	0.0	0	NO	(2)	6,486
6/17/2019	35.2	0.0	NO	43,058	21.2	0	NO	354	43,412
6/18/2019	34.9	0.0	NO	49,004	0.1	0	NO	(2)	49,002
6/19/2019	34.8	80.0	NO	45,127	20.1	80	NO	433	45,560
6/20/2019	35.0	0.0	NO	48,994	0.0	0	NO	4	48,998
6/21/2019	34.9	0.0	NO	16,285	0.0	0	NO	(3)	16,282
6/22/2019	34.7	0.0	NO	32,281	21.4	0	NO	355	32,636
6/23/2019	34.8	0.0	NO	46,110	0.0	0	NO	(6)	46,104
6/24/2019	35.0	0.0	NO	48,634	19.7	0	NO	364	48,999
6/25/2019	34.6	0.0	NO	48,989	0.0	0	NO	4	48,993
6/26/2019	34.5	0.0	NO	27,571	20.2	0	NO	386	27,957
6/27/2019	35.0	0.0	NO	7,279	0.1	0	NO	4	7,282
6/28/2019	34.8	0.0	NO	6,750	20.6	0	NO	368	7,118
6/29/2019	34.5	0.0	NO	5,547	0.0	0	NO	(5)	5,542
6/30/2019	34.5	0.0	NO	2,017	0.0	0	NO	(9)	2,008
								Max Daily Flow (Limit: 51,120):	49,002
								Monthly Total:	**633,026**

Notes:

(1) The system did not record data on 4/9/2019 from 14:49 to 15:14. There was no exceedance of flow during that time. See printout of report below

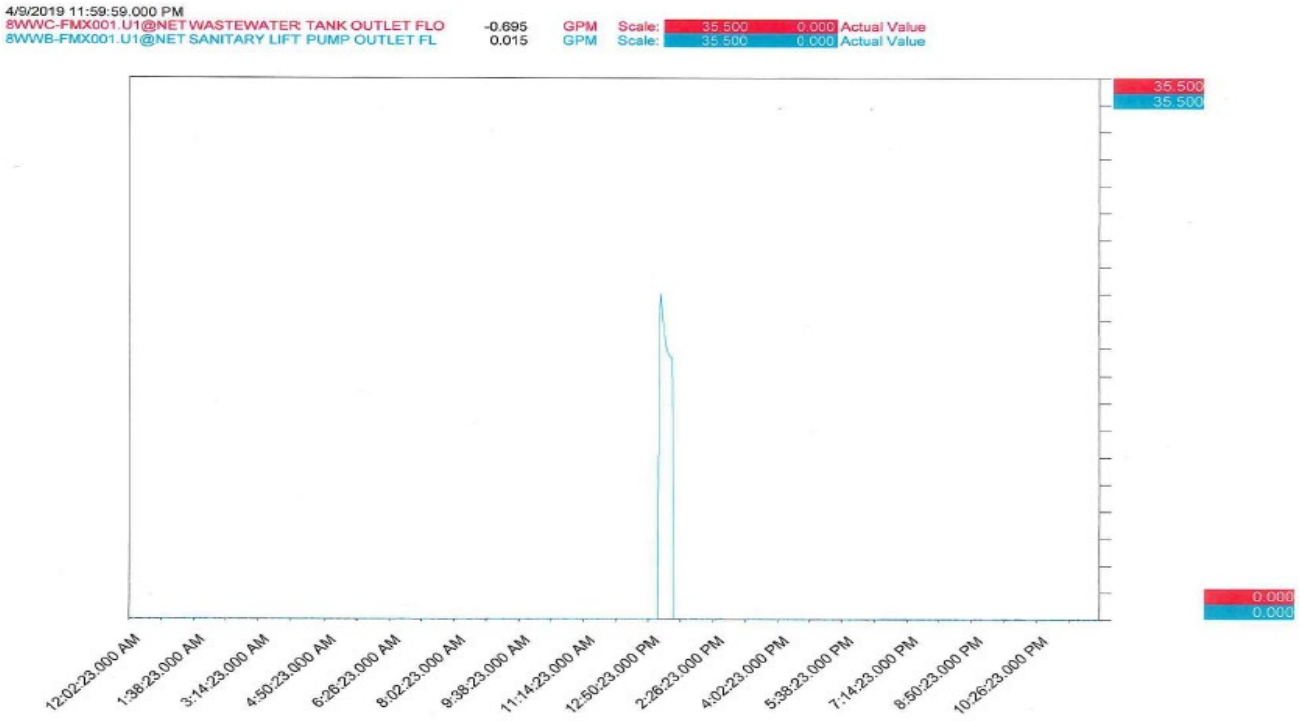
(2) The system had a loss of communication on 6/19/2019 between 12:15 and 13:34. The set of system flow data immediately proceeding and and immediately after the episode showed that equipment were behaving properly and flow data were below the permit limit.

PG&E Gateway Generating Station

Discharge Flow Data

April 2019-June 2019

	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: **2019**

Month	Flow (gallons)	Due Date
January		
February		
March		
April	234,569	7/15/2019
May	573,277	7/15/2019
June	633,026	7/15/2019
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 2019 to June 2019

WSAC Operation	
Month	Hours of Operation
January-19	
February-19	
March-19	
April-19	30.42
May-19	68.75
June-19	260.99
July-19	
August-19	
September-19	
October-19	
November-19	
December-19	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

April 2019 to June 2019

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-19	
February-19	
March-19	
April-19	5.52
May-19	7.09
June-19	5.57
July-19	
August-19	
September-19	
October-19	
November-19	
December-19	

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 Combined Site Stream
(E-001)

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Analytical Report

WorkOrder: 1906678

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Angel Espiritu
Project P.O.:
Project: Quarterly Sampling (June 2019)

Project Received: 06/13/2019

Analytical Report reviewed & approved for release on 06/21/2019 by:

Susan Thompson
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: Quarterly Sampling (June 2019)
WorkOrder: 1906678

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 (June 2019)
WorkOrder: 1906678

Analytical Qualifiers

j1	See attached narrative

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Quarterly Sampling (June 2019)

Work Order: 1906678
June 21, 2019

j1:

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:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	E1664A_SG
Date Prepared:	6/17/19	**Analytical Method:**	E1664A
Project:	Quarterly Sampling (June 2019)	**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 6/12/19 0905	1906678-001B	Water	06/12/2019 09:05	O&G	179658

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	06/18/2019 09:20

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0950	1906678-001D	Water	06/13/2019 09:50	O&G	179658

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	06/18/2019 09:25

Analyst(s): HN

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	E1664A
Date Prepared:	6/14/19	**Analytical Method:**	E1664A
Project:	Quarterly Sampling (June 2019)	**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 6/12/19 0905	1906678-001A	Water	06/12/2019 09:05	O&G	179656

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	06/14/2019 20:50

Analyst(s): PHU

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0950	1906678-001C	Water	06/13/2019 09:50	O&G	179656

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	06/14/2019 20:55

Analyst(s): PHU

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM4500-NH3 BG
Date Prepared:	6/17/19	**Analytical Method:**	SM4500-NH3 BG
Project:	Quarterly Sampling (June 2019)	**Unit:**	mg/L

Ammonia as N

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0950	**1906678-001E**	**Water**	**06/13/2019 09:50**	**WC_SKALAR 061719A1_31**	**179763**

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	**0.80**	0.10	1	06/17/2019 13:19

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM5210B
Date Prepared:	6/13/19	**Analytical Method:**	SM5210 B-2001
Project:	Quarterly Sampling (June 2019)	**Unit:**	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	**1906678-002A**	**Water**	**06/13/2019 09:30**	**WetChem**	**179583**

Analytes	Result	RL	DF	Date Analyzed
BOD	ND	4.0	1	06/18/2019 13:24

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	6/21/19	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Quarterly Sampling (June 2019)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0950	1906678-001F	Water	06/13/2019 09:50	WC_SKALAR 062119A1_43	180127

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	1.0	1	06/21/2019 11:25

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM5220 D-1997
Date Prepared:	6/17/19	**Analytical Method:**	SM5220 D-1997
Project:	Quarterly Sampling (June 2019)	**Unit:**	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	1906678-002B	Water	06/13/2019 09:30	SPECTROPHOTOMETER	179723

Analytes	Result	RL	DF	Date Analyzed
COD	ND	10	1	06/17/2019 12:59

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	E245.2
Date Prepared:	6/13/19	**Analytical Method:**	E245.2
Project:	Quarterly Sampling (June 2019)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	1906678-002E	Water	06/13/2019 09:30	AA1 _18	179540

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	06/17/2019 15:35

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	E200.8
Date Prepared:	6/13/19	**Analytical Method:**	E200.8
Project:	Quarterly Sampling (June 2019)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	**1906678-002F**	**Water**	**06/13/2019 09:30**	**ICP-MS1 103SMPL.D**	**179539**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**0.53**	0.50	1	06/19/2019 04:35
Cadmium	ND	0.50	1	06/19/2019 04:35
Chromium	ND	0.50	1	06/19/2019 04:35
Copper	**3.8**	0.50	1	06/19/2019 04:35
Iron	**180**	100	1	06/19/2019 04:35
Lead	ND	0.50	1	06/19/2019 04:35
Molybdenum	**4.8**	0.50	1	06/19/2019 04:35
Nickel	ND	1.0	1	06/19/2019 04:35
Selenium	ND	0.50	1	06/19/2019 04:35
Silver	ND	0.50	1	06/19/2019 04:35
Zinc	**120**	20	1	06/19/2019 04:35

Surrogates	REC (%)	Limits	
Terbium	90	70-130	06/19/2019 04:35

Analyst(s): ND Analytical Comments: j1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	E420.4
Date Prepared:	6/19/19	**Analytical Method:**	E420.4
Project:	Quarterly Sampling (June 2019)	**Unit:**	µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0950	**1906678-001E**	**Water**	**06/13/2019 09:50**	**WC_SKALAR 061919B1_28**	**179951**

Analytes	Result	RL	DF	Date Analyzed
Phenolics	**14.1**	2.0	1	06/19/2019 13:14

Analyst(s): NM

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM2540 C-1997
Date Prepared:	6/18/19	**Analytical Method:**	SM2540 C-1997
Project:	Quarterly Sampling (June 2019)	**Unit:**	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	**1906678-002C**	**Water**	**06/13/2019 09:30**	**WetChem**	**179842**

Analytes	Result	RL	DF	Date Analyzed
Total Dissolved Solids	**118**	10.0	1	06/19/2019 13:20

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Received:	6/13/19 11:42	**Extraction Method:**	SM2540 D-1997
Date Prepared:	6/14/19	**Analytical Method:**	SM2540 D-1997
Project:	Quarterly Sampling (June 2019)	**Unit:**	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 6/13/19 0930	**1906678-002D**	**Water**	**06/13/2019 09:30**	**WetChem**	**179640**

Analytes	Result	RL	DF	Date Analyzed
Total Suspended Solids	**1.60**	1.00	1	06/14/2019 14:00

Analyst(s): AL

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/14/19	**BatchID:**	179658
Date Analyzed:	6/14/19	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179658

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.72	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.1	9.9	10.42	87	95	64-132	9.33	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/14/19	**BatchID:**	179656
Date Analyzed:	6/14/19	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179656

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.2	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18	18	20.83	87	85	78-114	2.49	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/17/19	**BatchID:**	179763
Date Analyzed:	6/17/19	**Extraction Method:**	SM4500-NH3 BG
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-NH3 BG
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179763

QC Summary Report for SM4500-NH3

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.084	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	4.0	4.1	4	101	103	88-113	1.88	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/13/19	**BatchID:**	179583
Date Analyzed:	6/18/19	**Extraction Method:**	SM5210B
Instrument:	WetChem	**Analytical Method:**	SM5210 B-2001
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179583

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.0	4.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	220	200	198	113	102	80-120	10.8	16

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/21/19	**BatchID:**	180127
Date Analyzed:	6/21/19	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-180127

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.84	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	42	42	40	105	104	80-120	0.0536	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/17/19	**BatchID:**	179723
Date Analyzed:	6/17/19	**Extraction Method:**	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM5220 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179723

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.2	10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	94	96	100	94	96	90-110	2.11	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/13/19	**BatchID:**	179540
Date Analyzed:	6/14/19	**Extraction Method:**	E245.2
Instrument:	AA1	**Analytical Method:**	E245.2
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179540

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	2.1	2.0	2	106	99	85-115	6.47	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/13/19	**BatchID:**	179539
Date Analyzed:	6/14/19	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179539

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Arsenic	ND	0.12	0.50	-	-	-
Cadmium	ND	0.060	0.50	-	-	-
Chromium	ND	0.36	0.50	-	-	-
Copper	ND	0.43	0.50	-	-	-
Iron	ND	58	100	-	-	-
Lead	ND	0.32	0.50	-	-	-
Molybdenum	ND	0.21	0.50	-	-	-
Nickel	ND	0.58	1.0	-	-	-
Selenium	ND	0.18	0.50	-	-	-
Silver	ND	0.042	0.50	-	-	-
Zinc	ND	11	20	-	-	-
Surrogate Recovery						
Terbium	490			500	98	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Arsenic	53	54	50	106	107	85-115	1.52	20
Cadmium	53	53	50	105	106	85-115	0.322	20
Chromium	52	53	50	104	106	85-115	1.66	20
Copper	54	55	50	108	109	85-115	1.29	20
Iron	5100	5200	5000	102	104	85-115	1.34	20
Lead	53	53	50	106	107	85-115	1.06	20
Molybdenum	50	51	50	101	102	85-115	0.829	20
Nickel	53	54	50	106	109	85-115	2.89	20
Selenium	54	54	50	109	108	85-115	0.721	20
Silver	54	55	50	108	109	85-115	0.936	20
Zinc	550	550	500	109	110	85-115	0.547	20
Surrogate Recovery								
Terbium	500	500	500	100	100	70-130	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/19/19	**BatchID:**	179951
Date Analyzed:	6/19/19	**Extraction Method:**	E420.4
Instrument:	WC_SKALAR	**Analytical Method:**	E420.4
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB/LCS/LCSD-179951 1906678-001EMS/MSD

QC Summary Report for E420.4

Analyte	MB Result	MDL	RL			
Phenolics	ND	2.0	2.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Phenolics	40	41	40	101	103	80-120	2.34	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Phenolics	1	55	54	40	14	101	100	70-130	1.13	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/18/19	**BatchID:**	179842
Date Analyzed:	6/19/19	**Extraction Method:**	SM2540 C-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 C-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB-179842

QC Summary Report for Total Dissolved Solids

Analyte	MB Result	MDL	RL			
Total Dissolved Solids	ND	10.0	10.0	-	-	-

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906678
Date Prepared:	6/14/19	**BatchID:**	179640
Date Analyzed:	6/14/19	**Extraction Method:**	SM2540 D-1997
Instrument:	WetChem	**Analytical Method:**	SM2540 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly Sampling (June 2019)	**Sample ID:**	MB-179640

QC Summary Report for Total Suspended Solids

Analyte	MB Result	MDL	RL			
Total Suspended Solids	ND	1.00	1.00	-	-	-

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1906678 **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 (June 2019)

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

Requested TATs: 5 days; 7 days;

Date Received: **06/13/2019**
Date Logged: **06/13/2019**

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
1906678-001	E-001 6/12/19 0905	Water	6/12/2019 09:05	☐	B	A										
1906678-001	E-001 6/13/19 0950	Water	6/13/2019 09:50	☐	D	C	E		F				E			
1906678-002	E-001 6/13/19 0930	Water	6/13/2019 09:30	☐				A		B	E	F		C	D	

Test Legend:

1	1664A_SG_W	2	1664A_W	3	AMMONIA-SM4500BG_W	4	BOD_W
5	CN_SM4500CE_W	6	COD_W	7	HG_W	8	METALSMS_TTLC_W
9	PHENOLICS_W	10	TDS_W	11	TSS_W	12	

Project Manager: Angela Rydelius **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:** Quarterly Sampling (June 2019) **Work Order:** 1906678
Client Contact: Angel Espiritu **QC Level:** LEVEL 2
Contact's Email: abe4@pge.com **Comments:** **Date Logged:** 6/13/2019

☐ 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
1906678-001A	E-001 6/12/19 0905	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	6/12/2019 9:05	5 days	Present	☐	
1906678-001B	E-001 6/12/19 0905	Water	E1664A (SGT- HEM; Non-polar Material)	1	1L w/ HCl	☐	6/12/2019 9:05	5 days	Present	☐	
1906678-001C	E-001 6/13/19 0950	Water	E1664A (HEM; Oil & Grease w/o S.G. Clean-Up)	1	1LA w/ HCl	☐	6/13/2019 9:50	5 days	Present	☐	
1906678-001D	E-001 6/13/19 0950	Water	E1664A (SGT- HEM; Non-polar Material)	1	1LA w/ HCl	☐	6/13/2019 9:50	5 days	Present	☐	
1906678-001E	E-001 6/13/19 0950	Water	E420.4 (Phenolics)	1	500mL aG w/ H2SO4	☐	6/13/2019 9:50	5 days	Present	☐	
			SM4500-NH3 BG (Ammonia Nitrogen)			☐		5 days	Present	☐	
1906678-001F	E-001 6/13/19 0950	Water	SM4500-CN¯CE (Cyanide, Total)	1	250mL aHDPE w/ NaOH + Na2S2O3	☐	6/13/2019 9:50	5 days	Present	☐	
1906678-002A	E-001 6/13/19 0930	Water	SM5210B (BOD)	1	1L HDPE, unprsv.	☐	6/13/2019 9:30	7 days	Present	☐	
1906678-002B	E-001 6/13/19 0930	Water	SM5220D (COD)	2	aVOA w/ H2SO4	☐	6/13/2019 9:30	5 days	Present	☐	
1906678-002C	E-001 6/13/19 0930	Water	SM2540C (TDS)	1	500mL HDPE, unprsv.	☐	6/13/2019 9:30	5 days	Present	☐	
1906678-002D	E-001 6/13/19 0930	Water	SM2540D (TSS)	1	1L HDPE, unprsv.	☐	6/13/2019 9:30	5 days	Present	☐	
1906678-002E	E-001 6/13/19 0930	Water	E245.2 (Mercury)	1	250mL HDPE w/ HNO3	☐	6/13/2019 9:30	5 days	Present	☐	
1906678-002F	E-001 6/13/19 0930	Water	E200.8 (Metals) <Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc>	1	250mL HDPE w/ HNO3	☐	6/13/2019 9:30	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.

1901678

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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 (June 2019)

Project Location: Combined Site Flow

Sampler Signature: Muskan Environmental Sampling

Analysis Request | **Remarks**

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)	Ammonia as N (SM 4500-NH3-G	Mercury (245.2)	Metals (200.8 cadmium, chromium, copper, lead, nickel, silver, Molybdenum, iron, and zinc)	BOD (SM 5210B)	COD (SM 5220D)	TDS (SM 2540C)	TSS (SM 2540D)
E-001		G	6/12/19	09:05	2	1L Amb	X			X			X					X									
E-001		G	6/13/19	09:50	2	1L Amb	X			X			X					X									
E-001		G	6/13/19	09:50	1	500ml Amb	X			X	X								X	X							
E-001		G	6/13/19	09:50	1	250-ml Poly	X			X		X				X											
E-001		C	6/13/19	09:30	1	1L Poly	X		X	X													X				
E-001		C	6/13/19	09:30	2	43-ml VOA	X			X	X													X			
E-001		C	6/13/19	09:30	1	500-ml poly	X		X	X															X		
E-001		C	6/13/19	09:30	1	1L poly	X		X	X																X	
E-001		C	6/13/19	09:30	1	250-ml Poly	X			X				X							X						
E-001		C	6/13/19	09:30	1	250-ml poly	X			X				X			X					X					

Relinquished By:	Date:	Time:	Received By:
	6/13/19	11:42	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 2.9°C WET
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

COMMENTS:

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**6/13/2019 11:42**
Project:	**Quarterly Sampling (June 2019)**	Date Logged:	**6/13/2019**
		Received by:	Agustina Venegas
WorkOrder №:	**1906678** 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: 2.8°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; 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: Method E1664A (HEM; Oil & Grease w/o S.G. Clean-Up) was received unpreserved. Method E1664A (SGT- HEM; Non-polar Material) was received unpreserved.

McCampbell Analytical, Inc.

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Analytical Report

WorkOrder: 1906679

Report Created for: PG&E Gateway Generating Station

3225 Wilbur Avenue
Antioch, CA 94509

Project Contact: Sanjiv Gill
Project P.O.:
Project: pH Sampling (June 2019)

Project Received: 06/13/2019

Analytical Report reviewed & approved for release on 06/19/2019 by:

Susan Thompson
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: pH Sampling (June 2019)
WorkOrder: 1906679

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)

McCampbell Analytical, Inc.
"When Quality Counts"

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

Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906679
Date Received:	6/13/19 11:42	**Extraction Method:**	SM4500H+B-2000
Date Prepared:	6/13/19	**Analytical Method:**	SM4500H+B
Project:	pH Sampling (June 2019)	**Unit:**	pH units

pH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001	1906679-001A	Water	06/13/2019 10:20	WetChem	179757

Analytes	Result	Accuracy	DF	Date Analyzed
pH	**7.04**	±0.05	1	06/13/2019 10:20

Analyst(s): PHU

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1906679
Date Prepared:	6/13/19	**BatchID:**	179757
Date Analyzed:	6/13/19	**Extraction Method:**	SM4500H+B-2000
Instrument:	WetChem	**Analytical Method:**	SM4500H+B
Matrix:	Water	**Unit:**	pH units @ 25°C
Project:	pH Sampling (June 2019)	**Sample ID:**	CCV-179757

QC Summary Report for pH

Analyte	CCV Result	CCV Limits
pH	7.00	6.8-7.2

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1906679 **ClientCode: PGEA**

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

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

Email: sanjivgill@comcast.net
cc/3rd Party:
PO:
Project: pH Sampling (June 2019)

Bill to:
Sanjiv Gil
Muskan Environmental Services
1674 Bay Court
Yuba City, CA 95993

Requested TAT: 5 days;

Date Received: **06/13/2019**
Date Logged: **06/13/2019**

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
1906679-001	E-001	Water	6/13/2019 10:20	☐	A											

Test Legend:

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

Project Manager: Angela Rydelius

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:** pH Sampling (June 2019) **Work Order:** 1906679
Client Contact: Sanjiv Gill **QC Level:** LEVEL 2
Contact's Email: sanjivgill@comcast.net **Comments:** **Date Logged:** 6/13/2019

☐ 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
1906679-001A	E-001	Water	SM4500H+B (Field pH)	1	125mL HDPE, unprsv.	☐	6/13/2019 10:20	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.

1906679

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: 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 (June 2019)

Project Location: PG&E GGS Antioch – E-001

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	6/13/19	10:20	NA	NA	X		X							X	Grab Time: 10:19 Analysis Time: 10:20 Temperature: 23.2°C pH: 7.04

Relinquished By: Date: 6/13/19 Time: 11:42 Received By:

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

WO#1906679

Date/Time	Sample ID	Matrix	1st Reading		2nd Reading		Ave	Standard	Comments	Analyst
			pH	Temp.°c	pH	Temp.°c	pH	(lot # / exp. Date)		
	Cal. pH # 7.00	L	7.00	19.9	7.00	20.0	7.00	bulk		
6/13/19/09:02	Cal pH # 4.00	L	4.00	19.7	4.00	19.7	4.00	bulk		
6/13/19/09:02	Cal. pH # 10.00	L	10.00	19.7	10.00	19.7	10.00	bulk		
6/13/19/09:02										

Meter Myron L Company
Ultrameter II
serial # 6222066

PG&E Gateway pH reading on COC 6/13/19

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Sample Receipt Checklist

Client Name:	**PG&E Gateway Generating Station**	Date and Time Received	**6/13/2019 11:42**
Project:	**pH Sampling (June 2019)**	Date Logged:	**6/13/2019**
		Received by:	Agustina Venegas
WorkOrder №:	**1906679** 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: 2.8°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; 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:

Attachment 9
Annual Flowmeter Calibration

159000

Gateway Generating Station
Annual Flowmeter Accuracy Test

Name and Signature of Tester: Jeremiah Thompson
Date of Test: 6/19/19

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	110	y	190000	195000	y
Sanitary Wastewater Flowmeter Tag No. 8WWB-FM-X001 Model No. Yokogawa AXF 650C Coil Resistance Value: 116.8 ohms	113	y	150000	150000	y

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®

RECEIVED BY
DELTA DIABLO
OCT 07 2019

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

October 4, 2019

Jason Yun
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, 2019)

Dear Mister Yun,

Attached is the Quarterly Self-Monitoring Report (SMR) for Pacific Gas and Electric Company - Gateway Generating Station (GGS) for the period ending September 30, 2019, 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, WSAC Operating Months Report, Cycles of Concentration, and Copy of 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
Gateway Generating Station

Quarterly Self-Monitoring Report

For the reporting period ending in June 30, 2019

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, 2023.

The report includes the following attachments:

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, 2019

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:** Oct. 4, 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 September 30, 2019

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 2019 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:
None

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	9/4/2019	9/5/2019	9/5/2019	9/5/2019				
TYPE	G	G	C 24	G				
STATION	E-001	E-001	E-001	E-001				
SMP.BY	Muskan	Muskan	Muskan	Muskan				
PURPOSE	Compliance Quarterly (Q3)	Compliance Quarterly (Q3)	Compliance Quarterly (Q3)	Compliance Semi-annually (SA2)				

Units: mg/L

PARAMETERS	LIMITS								
FLOW, DAILY (gal)	51,120								
FLOW, MONTH (gal)									
pH	6-10 s.u.		7.82						
BOD				7.3					
COD				ND(<10.0)					
TDS				392.0					
TSS				ND(<1.0)					
Arsenic	0.15			0.00110					
Cadmium	0.1			ND(<0.0005)					
Chromium	0.5			ND(<0.0005)					
Copper	0.5			0.0045					
Iron				0.130					
Lead	0.5			ND(<0.0005)					
Mercury	0.003			ND(<0.0002)					
Molybdenum				0.036					
Nickel	0.5			0.0019					
Selenium	0.25			ND(<0.0005)					
Silver	0.2			ND(<0.0005)					
Zinc	1.00			0.260					
Cyanide	0.2		0.0098						
Phenol	1.00		0.100						
Ammonia	200		28						
O&G Petro/Min (E1664A w/ Silica)	100	ND(<5.0)	ND(<5.0)						
O&G Animal/Vegetable Oil	300	ND(<0.4)	ND(<5.0)						
TTO EPA 608					ND(<0.00002)				
TTO EPA 624					0.0022				
TTO EPA 625					0.028106				
TTO	2.00				0.030306				
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

Attachment 4
Discharge Flow Data

PG&E Gateway Generating Station

Discharge Flow Data

July 2019-September 2019

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
7/1/2019	35.0	0.0	NO	31,703	0.0	0	NO		31,703
7/2/2019	34.7	0.0	NO	43,275	21.5	0	NO	383	43,658
7/3/2019	34.8	0.0	NO	40,120	20.3	0	NO	374	40,493
7/4/2019	34.6	0.0	NO	42,335	0.1	0	NO		42,335
7/5/2019	35.3	0.0	NO	22,130	0.1	0	NO		22,130
7/6/2019	34.8	0.0	NO	49,006	0.0	0	NO		49,006
7/7/2019	35.0	0.0	NO	17,943	0.0	0	NO		17,943
7/8/2019	34.9	0.0	NO	36,279	20.4	0	NO	389	36,668
7/9/2019	34.8	0.0	NO	48,584	20.3	0	NO	394	48,978
7/10/2019	34.9	0.0	NO	36,226	0.0	0	NO	394	36,621
7/11/2019	35.1	0.0	NO	16,695	21.1	1	NO	384	17,079
7/12/2019	35.1	0.0	NO	27,183	0.0	0	NO		27,183
7/13/2019	34.7	0.0	NO	29,953	0.0	0	NO		29,953
7/14/2019	35.0	0.0	NO	22,005	20.7	0	NO	394	22,399
7/15/2019	35.0	0.0	NO	22,516	0.0	0	NO		22,516
7/16/2019	35.1	0.0	NO	24,628	20.3	0	NO	400	25,028
7/17/2019	35.0	0.0	NO	41,185	19.8	0	NO	372	41,558
7/18/2019	35.0	0.0	NO	15,397	0.1	0	NO	2	15,399
7/19/2019	34.8	0.0	NO	19,316	20.1	0	NO	380	19,696
7/20/2019	35.0	0.0	NO	27,032	0.1	0	NO	3	27,035
7/21/2019	35.0	0.0	NO	24,591	0.0	0	NO		24,591
7/22/2019	34.4	0.0	NO	15,289	0.0	0	NO		15,289
7/23/2019	35.1	0.0	NO	20,829	21.0	0	NO	389	21,218
7/24/2019	34.8	0.0	NO	28,522	0.0	0	NO		28,522
7/25/2019	34.7	0.0	NO	48,432	20.8	0	NO	551	48,983
7/26/2019	34.9	0.0	NO	33,607	0.0	0	NO	1	33,607
7/27/2019	35.0	0.0	NO	30,704	0.0	0	NO		30,704
7/28/2019	34.6	0.0	NO	28,560	21.2	0	NO	374	28,934
7/29/2019	35.0	0.0	NO	26,356	0.0	0	NO		26,356
7/30/2019	35.2	0.0	NO	17,225	20.2	0	NO	372	17,597
7/31/2019	34.5	0.0	NO	36,948	0.0	0	NO		36,948
								Max Daily Flow (Limit: 51,120):	49,006
								Monthly Total:	**930,128**
8/1/2019	34.7	0.0	NO	31,883	20.6	0	NO	387	32,271
8/2/2019	34.8	0.0	NO	28,101	0.0	0	NO		28,101
8/3/2019	35.3	0.0	NO	24,992	20.8	0	NO	368	25,360
8/4/2019	34.8	0.0	NO	26,848	0.1	0	NO		26,848
8/5/2019	35.1	0.0	NO	28,410	0.0	0	NO		28,410
8/6/2019	35.1	0.0	NO	32,362	20.9	0	NO	382	32,743
8/7/2019	34.8	0.0	NO	32,323	20.7	0	NO	399	32,721
8/8/2019	34.8	0.0	NO	40,867	0.1	0	NO	3	40,869
8/9/2019	34.5	0.0	NO	34,905	20.6	0	NO	386	35,291
8/10/2019	35.1	0.0	NO	6,523	0.1	0	NO	386	6,909
8/11/2019	34.9	0.0	NO	20,134	0.0	0	NO		20,134
8/12/2019	35.0	0.0	NO	33,017	20.8	0	NO	388	33,405
8/13/2019	35.0	0.0	NO	22,963	0.0	0	NO		22,963
8/14/2019	35.3	0.0	NO	14,108	20.4	0	NO	381	14,489
8/15/2019	35.0	0.0	NO	38,542	20.7	0	NO	387	38,929
8/16/2019	35.1	0.0	NO	22,742	0.1	0	NO		22,742
8/17/2019	35.0	0.0	NO	22,293	21.3	0	NO	399	22,692
8/18/2019	35.1	0.0	NO	24,461	0.1	0	NO	9	24,470
8/19/2019	35.1	0.0	NO	20,307	0.0	0	NO		20,307

PG&E Gateway Generating Station

Discharge Flow Data

July 2019-September 2019

	Industrial Flow				Sanitary Flow				
Date	Instantaneous Flow (GPM)	Time Over 39.05 GPM (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Instantaneous Flow (GPM)	Time Meter went Bad Quality (minutes)	Did it ever go over 39.05 GPM for 15 mins?	Daily Total (Gallons)	Site Total (Gallons)
8/20/2019	34.7	0.0	NO	26,966	20.7	0	NO	378	27,344
8/21/2019	35.5	0.0	NO	14,715	0.1	0	NO		14,715
8/22/2019	35.0	0.0	NO	27,965	21.1	0	NO	402	28,367
8/23/2019	34.8	0.0	NO	19,384	20.1	0	NO	385	19,769
8/24/2019	34.9	0.0	NO	31,542	0.0	0	NO		31,542
8/25/2019	34.7	0.0	NO	34,045	21.3	0	NO	373	34,418
8/26/2019	34.8	0.0	NO	21,806	0.1	0	NO		21,806
8/27/2019	34.8	0.0	NO	30,736	20.8	0	NO	382	31,118
8/28/2019	34.9	0.0	NO	29,006	0.0	0	NO	1	29,007
8/29/2019	34.9	0.0	NO	23,818	20.0	0	NO	383	24,202
8/30/2019	34.9	0.0	NO	11,881	0.0	0	NO		11,881
8/31/2019	34.7	0.0	NO	33,335	0.0	0	NO		33,335
								Max Daily Flow (Limit: 51,120):	40,869
								Monthly Total:	**817,158**
9/1/2019	34.7	0.0	NO	31,230	21.7	0	NO	389	31,619
9/2/2019	35.0	0.0	NO	28,390	0.0	0	NO		28,380
9/3/2019	34.8	0.0	NO	48,999	0.0	0	NO		48,989
9/4/2019	34.8	0.0	NO	38,093	21.1	0	NO	565	38,658
9/5/2019	34.9	0.0	NO	42,643	0.0	0	NO		42,636
9/6/2019	34.4	0.0	NO	22,705	20.0	0	NO	402	23,108
9/7/2019	34.9	0.0	NO	30,276	0.1	0	NO		30,272
9/8/2019	34.9	0.0	NO	39,191	0.0	0	NO		39,189
9/9/2019	34.7	0.0	NO	34,959	20.6	0	NO	397	35,357
9/10/2019	34.8	0.0	NO	22,292	0.1	0	NO	397	22,689
9/11/2019	35.0	0.0	NO	16,931	20.8	0	NO	398	17,328
9/12/2019	35.2	0.0	NO	20,832	20.7	0	NO	398	21,230
9/13/2019	34.9	0.0	NO	30,337	0.1	0	NO	3	30,341
9/14/2019	35.1	0.0	NO	25,949	0.1	0	NO		25,947
9/15/2019	35.0	0.0	NO	31,990	20.7	0	NO	415	32,405
9/16/2019	35.0	0.0	NO	24,313	0.0	0	NO		24,309
9/17/2019	35.0	0.0	NO	14,926	20.4	0	NO	405	15,331
9/18/2019	34.8	0.0	NO	29,515	19.9	0	NO	395	29,909
9/19/2019	36.2	0.0	NO	27,410	0.0	0	NO		27,409
9/20/2019	35.4	0.0	NO	32,477	21.0	0	NO	405	32,882
9/21/2019	34.8	0.0	NO	37,867	0.0	0	NO		37,865
9/22/2019	35.1	0.0	NO	22,338	0.0	0	NO		22,333
9/23/2019	34.8	0.0	NO	14,835	21.0	0	NO	412	15,247
9/24/2019	34.7	0.0	NO	22,907	21.2	0	NO	386	23,293
9/25/2019	34.9	0.0	NO	21,905	0.1	0	NO	9	21,915
9/26/2019	34.9	0.0	NO	23,615	21.0	0	NO	394	24,009
9/27/2019	35.1	0.0	NO	21,959	0.0	0	NO	4	21,963
9/28/2019	34.9	0.0	NO	18,417	21.2	0	NO	387	18,804
9/29/2019	34.6	0.0	NO	30,497	20.8	0	NO	813	31,310
9/30/2019	35.0	0.0	NO	34,303	17.1	0	NO	369	34,672
								Max Daily Flow (Limit: 51,120):	48,989
								Monthly Total:	**849,400**

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: **2019**

Month	Flow (gallons)	Due Date
January		
February		
March		
April		
May		
June		
July	930,128	10/15/2019
August	817,158	10/15/2019
September	849,400	10/15/2019
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

July 2019 to September 2019

WSAC Operation	
Month	Hours of Operation
January-19	
February-19	
March-19	
April-19	
May-19	
June-19	
July-19	450.75
August-19	469.67
September-19	381.75
October-19	
November-19	
December-19	

Attachment 7
Cycles of Concentration

PG&E Gateway Generating Station

WSAC Average Daily Blowdown Cycles Report

July 2019 to September 2019

WSAC Operation	
Month	Average Daily Blowdown Cycles
January-19	
February-19	
March-19	
April-19	
May-19	
June-19	
July-19	6.07
August-19	4.08
September-19	4.07
October-19	
November-19	
December-19	

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 Combined Site Stream
(E-001)

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Analytical Report

WorkOrder: 1909181

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 2019)

Project Received: 09/05/2019

Analytical Report reviewed & approved for release on 09/18/2019 by:

Christine Askari
Project Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: PG&E Gateway Generating Station
Project: Quarterly sampling (September 2019)
WorkOrder: 1909181

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
LQL	Lowest Quantitation Level
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 (September 2019)
WorkOrder: 1909181

Analytical Qualifiers

b1	Aqueous sample that contains greater than ~1 vol. % sediment

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Case Narrative

Client: PG&E Gateway Generating Station
Project: Quarterly sampling (September 2019)

Work Order: 1909181
September 18, 2019

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:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	E1664A_SG
Date Prepared:	9/12/19	**Analytical Method:**	E1664A
Project:	Quarterly sampling (September 2019)	**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 9/4/19 10:40	1909181-001B	Water	09/04/2019 10:40	O&G	185235

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	09/13/2019 11:30

Analyst(s): HN Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:35	1909181-001D	Water	09/05/2019 11:35	O&G	185235

Analytes	Result	RL	DF	Date Analyzed
SGT-HEM	ND	5.0	1	09/13/2019 11:35

Analyst(s): HN Analytical Comments: b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	E1664A
Date Prepared:	9/6/19	**Analytical Method:**	E1664A
Project:	Quarterly sampling (September 2019)	**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 9/4/19 10:40	1909181-001A	Water	09/04/2019 10:40	O&G	184895

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.4	1	09/09/2019 12:55

Analyst(s): HN Analytical Comments: b1

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:35	1909181-001C	Water	09/05/2019 11:35	O&G	184895

Analytes	Result	RL	DF	Date Analyzed
HEM	ND	5.0	1	09/09/2019 13:00

Analyst(s): HN Analytical Comments: b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM4500-NH3 BG
Date Prepared:	9/18/19	**Analytical Method:**	SM4500-NH3 BG
Project:	Quarterly sampling (September 2019)	**Unit:**	mg/L

Ammonia as N

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:35	**1909181-001E**	**Water**	**09/05/2019 11:35**	**WC_SKALAR 091819A1_80**	**185587**

Analytes	Result	RL	DF	Date Analyzed
Ammonia, total as N	**28**	10	100	09/18/2019 16:29

Analyst(s): NM

Analytical Comments: b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM5210B
Date Prepared:	9/5/19	**Analytical Method:**	SM5210 B-2001
Project:	Quarterly sampling (September 2019)	**Unit:**	mg/L

Biochemical Oxygen Demand (BOD)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	**1909181-002A**	**Water**	**09/05/2019 11:00**	**WetChem**	**184767**

Analytes	Result	RL	DF	Date Analyzed
BOD	**7.3**	4.0	1	09/10/2019 09:39

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	9/12/19	**Analytical Method:**	SM4500-CN⁻ CE
Project:	Quarterly sampling (September 2019)	**Unit:**	µg/L

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:35	**1909181-001F**	**Water**	**09/05/2019 11:35**	**WC_SKALAR 091219A1_23**	**185196**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	**9.8**	1.0	1	09/12/2019 12:48

Analyst(s): NM

Analytical Comments: b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM5220 D-1997
Date Prepared:	9/11/19	**Analytical Method:**	SM5220 D-1997
Project:	Quarterly sampling (September 2019)	**Unit:**	mg/L

Chemical Oxygen Demand (COD) as mg O2 /L

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	**1909181-002B**	**Water**	**09/05/2019 11:00**	**SPECTROPHOTOMETER**	**185021**

Analytes	Result	RL	DF	Date Analyzed
COD	ND	10	1	09/11/2019 09:08

Analyst(s): RB

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	E245.2
Date Prepared:	9/5/19	**Analytical Method:**	E245.2
Project:	Quarterly sampling (September 2019)	**Unit:**	µg/L

Mercury by Cold Vapor Atomic Absorption

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	1909181-002E	Water	09/05/2019 11:00	AA1 _13	184762

Analytes	Result	RL	DF	Date Analyzed
Mercury	ND	0.20	1	09/06/2019 14:23

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	E200.8
Date Prepared:	9/5/19	**Analytical Method:**	E200.8
Project:	Quarterly sampling (September 2019)	**Unit:**	µg/L

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	**1909181-002F**	**Water**	**09/05/2019 11:00**	**ICP-MS3 134SMPL.D**	**184709**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**1.1**	0.50	1	09/07/2019 09:31
Cadmium	ND	0.50	1	09/07/2019 09:31
Chromium	ND	0.50	1	09/07/2019 09:31
Copper	**4.5**	0.50	1	09/07/2019 09:31
Iron	**130**	100	1	09/07/2019 09:31
Lead	ND	0.50	1	09/07/2019 09:31
Molybdenum	**36**	0.50	1	09/07/2019 09:31
Nickel	**1.9**	1.0	1	09/07/2019 09:31
Selenium	ND	0.50	1	09/07/2019 09:31
Silver	ND	0.50	1	09/07/2019 09:31
Zinc	**260**	20	1	09/07/2019 09:31

Surrogates	REC (%)	Limits	
Terbium	110	70-130	09/07/2019 09:31

Analyst(s): JC

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	E420.4
Date Prepared:	9/9/19	**Analytical Method:**	E420.4
Project:	Quarterly sampling (September 2019)	**Unit:**	µg/L

Phenolics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:35	**1909181-001E**	**Water**	**09/05/2019 11:35**	**WC_SKALAR 090919A1_52**	**184921**

Analytes	Result	RL	DF	Date Analyzed
Phenolics	**100**	10	5	09/09/2019 13:41

Analyst(s): NM

Analytical Comments: b1

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM2540 C-1997
Date Prepared:	9/5/19	**Analytical Method:**	SM2540 C-1997
Project:	Quarterly sampling (September 2019)	**Unit:**	mg/L

Total Dissolved Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	**1909181-002C**	**Water**	**09/05/2019 11:00**	**WetChem**	**184788**

Analytes	Result	RL	DF	Date Analyzed
Total Dissolved Solids	**392**	10.0	1	09/06/2019 11:55

Analyst(s): AL

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Analytical Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Received:	9/5/19 13:05	**Extraction Method:**	SM2540 D-1997
Date Prepared:	9/5/19	**Analytical Method:**	SM2540 D-1997
Project:	Quarterly sampling (September 2019)	**Unit:**	mg/L

Total Suspended Solids

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
E-001 9/5/19 11:00	1909181-002D	Water	09/05/2019 11:00	WetChem	184719

Analytes	Result	RL	DF	Date Analyzed
Total Suspended Solids	ND	1.00	1	09/05/2019 15:20

Analyst(s): HAD

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/13/19	**BatchID:**	185235
Date Analyzed:	9/13/19	**Extraction Method:**	E1664A_SG
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS/LCSD-185235

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
SGT-HEM	ND	0.72	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	9.0	8.7	10.42	86	83	64-132	3.11	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/9/19	**BatchID:**	184895
Date Analyzed:	9/9/19	**Extraction Method:**	E1664A
Instrument:	O&G	**Analytical Method:**	E1664A
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS/LCSD-184895

QC Summary Report for E1664A

Analyte	MB Result	MDL	RL			
HEM	ND	1.2	5.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
HEM	18	17	20.83	87	84	78-114	3.51	30

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/18/19	**BatchID:**	185587
Date Analyzed:	9/18/19	**Extraction Method:**	SM4500-NH3 BG
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-NH3 BG
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS/LCSD-185587

QC Summary Report for SM4500-NH3

Analyte	MB Result	MDL	RL			
Ammonia, total as N	ND	0.084	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Ammonia, total as N	3.9	3.9	4	97	97	88-113	0	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/5/19	**BatchID:**	184767
Date Analyzed:	9/10/19	**Extraction Method:**	SM5210B
Instrument:	WetChem	**Analytical Method:**	SM5210 B-2001
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS/LCSD-184767 1909181-002A

QC Summary Report for BOD

Analyte	MB Result	MDL	RL			
BOD	ND	4.0	4.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
BOD	180	180	198	92	91	80-120	1.11	16

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
BOD	7.3	7.4	0.96	10

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/12/19	**BatchID:**	185196
Date Analyzed:	9/12/19	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Water	**Unit:**	µg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS/LCSD-185196

QC Summary Report for SM4500-CN⁻ CE

Analyte	MB Result	MDL	RL			
Total Cyanide	ND	0.84	1.0	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	39	39	40	99	98	80-120	0.521	20

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Quality Control Report

Client:	PG&E Gateway Generating Station	**WorkOrder:**	1909181
Date Prepared:	9/11/19	**BatchID:**	185021
Date Analyzed:	9/11/19	**Extraction Method:**	SM5220 D-1997
Instrument:	SPECTROPHOTOMETER	**Analytical Method:**	SM5220 D-1997
Matrix:	Water	**Unit:**	mg/L
Project:	Quarterly sampling (September 2019)	**Sample ID:**	MB/LCS-185021 1909181-002BMS/MSD

QC Summary Report for COD

Analyte	MB Result	MDL	RL			
COD	ND	7.2	10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
COD	110	-	100	106	-	90-110	-	-

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
COD	1	110	110	100	ND	106	102	80-120	3.57	20