



Anne Conner
Sr. Project Manager
Environmental Remediation

3401 Crow Canyon Rd.
San Ramon, CA 94583

925.415.6381 direct
925.415.6852 fax
APB1@pge.com

August 25, 2014

RECEIVED

By Alameda County Environmental Health at 3:37 pm, Sep 09, 2014

Mr. Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health Department
Division of Environmental Protection
1131 Harbor Way Parkway, 2nd Floor
Alameda, CA 94502-6577

Subject: August 2014 Monitoring Well Decommissioning report
Pacific Gas and Electric Company, Oakland General Construction Yard
4930 Coliseum Way, Oakland, California

Dear Mr. Wickham:

Please find attached the letter entitled *August 2014 Monitoring Well Decommissioning Report, Pacific Gas & Electric Company (PG&E), Oakland General Construction Yard, 4930 Coliseum Way, Oakland, California*, dated August 26, 2014 prepared by AMEC on behalf of PG&E.

If you have any questions regarding this document, please contact Kathleen Isaacson, P.G., CHG (PG&E project manager) at (415) 392-3875.

Sincerely,

A handwritten signature in blue ink that reads 'Anne Conner'.

Anne Conner
Sr. Project Manager
PG&E Environmental Remediation

Enclosure

DECLARATION

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Well Destruction Report are true and correct to the best of my knowledge.



Ben LePage
Pacific Gas and Electric Company



August 25, 2014

Project 013045007G.00008

Ms. Kathleen Isaacson
Consultant Project Manager
WAU & Company
400 Montgomery Street, Suite 1100
San Ramon, California 94104

Subject: August 2014 Monitoring Well Decommissioning Report
Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way
Oakland, California

Dear Ms. Isaacson:

AMEC Environment & Infrastructure, Inc. (AMEC), is please to submit the *August 2014 Monitoring Well Decommissioning Report*. This report was prepared by ETIC Engineering, Inc. (ETIC) on behalf of AMEC. This report presents a summary of observations made during this well decommissioning.

Please contact the undersigned if you have any further questions.

Sincerely yours,
AMEC Environment & Infrastructure, Inc.


Yemia Hashimoto, CHG
Senior Hydrogeologist
Direct Tel.: (510) 663-4210
E-mail: yemia.hashimoto@amec.com

YH/dc
x:\13000s\13045.007.g\3000\welldestruction_0825174\amec_ogcy_welldestructioncvrltr_013045007g_08-2014.docx

Attachments: ETIC August 2014 Monitoring Well Decommissioning Report

AMEC Environment & Infrastructure, Inc.
180 Grand Avenue, Suite 1100
Oakland, California 94612-3066
USA
Tel (510) 663-4100
Fax (510) 663-4141
amec.com



Monitoring Well Decommissioning Report

**Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way
Oakland, California 94601**

SLIC Case No. RO0000099

August 2014

Prepared For:

**Pacific Gas and Electric Company
3401 Crow Canyon Road
San Ramon, California 94583**

Prepared By:

**ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523**



Monitoring Well Decommissioning Report

Pacific Gas and Electric Company
Oakland General Construction Yard
4930 Coliseum Way
Oakland, California 94601

SLIC Case No. RO0000099

August 2014

Prepared For:

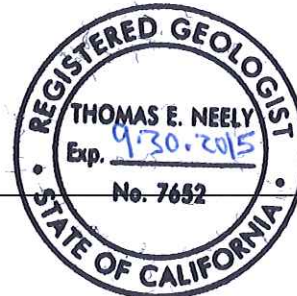
Pacific Gas and Electric Company
3401 Crow Canyon Road
San Ramon, California 94583

Prepared By:

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523

A handwritten signature in blue ink that reads "T. E. Neely".

Thomas E. Neely, PG, CHG, QSD
Senior Hydrogeologist



August 25, 2014

Date

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1.0 INTRODUCTION

On behalf of AMEC Environment & Infrastructure, Inc. (AMEC) and Pacific Gas and Electric Company (PG&E), ETIC Engineering, Inc. (ETIC) has prepared this *Monitoring Well Decommissioning Report* for the PG&E General Construction Yard located at 4930 Coliseum Way in Oakland, California (the Site) (Figure 1).

Decommissioning of groundwater monitoring wells OW-1, OW-2, OW-4, OW-5, and OW-8 was approved by the Alameda County Health Care Services Agency in a letter dated May 7, 2014 (ACHCSA, 2014). A copy of the letter is included in Appendix A.

2.0 SITE DESCRIPTION AND BACKGROUND

The approximate 5-acre site is bounded by Coliseum Way to the south, 50th Avenue to the southeast, and industrial properties to the west, north, and northeast (Figure 1). The site vicinity consists primarily of commercial and industrial businesses. The site has been operated by PG&E as a natural gas distribution center and equipment storage facility from at least the late 1930s until 1990. After removal of the above-ground gas holder tank in 1990, the site has been used as an equipment and vehicle storage facility (AMEC, 2010).

3.0 FIELD ACTIVITIES

Activities associated with the work performed included the following:

- Performing pre-field activities.
- Decommissioning groundwater monitoring wells.
- Containing the investigation-derived waste.
- Collecting and analyzing a sample of the investigation-derived waste.
- Completing and submitting Department of Water Resources (DWR) Well Completion Report Forms – DWR 188.
- Preparing a written report summarizing decommissioning activities.

Details of the work performed are presented in the following sections.

3.1 PRE-FIELD ACTIVITIES

A well destruction permit was obtained from the Alameda County Public Works Agency (ACPWA) for five groundwater monitoring wells (OW-1, OW-2, OW-4, OW-5, and OW-8) (Figure 2). Monitoring well construction details are presented in Table 1. A copy of the permit is included in Appendix B. A site-specific health and safety plan was prepared for, and implemented, during field activities. The area surrounding each well was marked with white paint, and Underground Service Alert (USA) was notified. Subtronic Corporation, a private utility locator, was retained to locate and mark underground utilities in the vicinity of each well. The ACPWA inspector was notified prior to commencing monitoring well decommissioning.

3.2 MONITORING WELL DECOMMISSIONING

On July 21, 2014, in accordance with ACPWA requirements, groundwater monitoring wells OW-1, OW-2, OW-4, and OW-8 were decommissioned by PeneCore Drilling of Woodland, California, a C-57 licensed contractor (PeneCore). Groundwater monitoring well OW-5 was not decommissioned at the request of AMEC and PG&E after oily fluid was noted in the well at the time of gauging.

On July 21, 2014, PeneCore conveyed a neat cement grout through a tremie line, filling each well casing from the bottom to top. PeneCore applied pressure at 25 pounds per square inch (psi) for 5 minutes. The protective well covers and boxes were removed, and the surface was patched with concrete to match grade. An inspector from ACPWA observed and approved the grouting and well decommissioning activities.

3.3 INVESTIGATION-DERIVED WASTE

Well destruction debris (e.g. concrete and PVC casing) and water derived from the field activities were contained in DOT-approved 55-gallon drums stored temporarily at the Site. One drum of debris and one drum of wastewater were generated during the well decommissioning. A wastewater sample was collected from the drum of water and submitted to a state-certified laboratory for analysis. The sample was collected in laboratory-supplied bottles. The bottles were sealed, labeled, placed with ice in a thermally insulated cooler, and transported under chain-of-custody protocol to Eurofins Calscience, Inc. (Calscience), a state-certified analytical laboratory, located in Garden Grove, California. Metal debris from the well boxes was recycled.

The wastewater sample was analyzed by Calscience for diesel range organics using EPA Method 8015B, the Title 22 Metals using EPA Method 6010B/7470A, and volatile organic compounds (VOCs) plus gasoline range organics using EPA Method 8260B. The laboratory analytical data and chain-of-custody documentation are included in Appendix C. PG&E profiled the debris and wastewater as non-hazardous and disposal is pending. The drums are planned to be transported under a non-hazardous waste manifest to a permitted disposal facility.

4.0 REPORTING

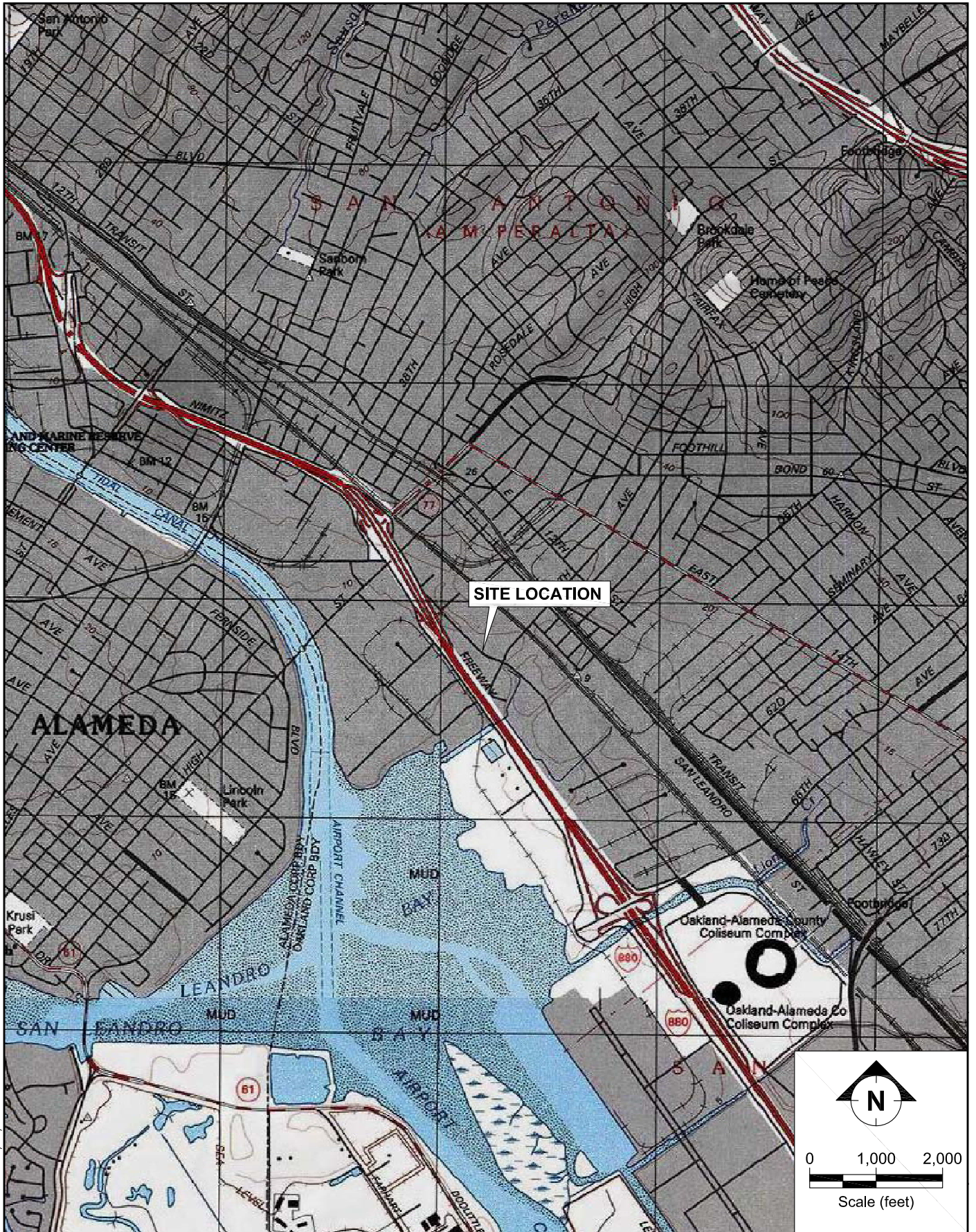
Upon completing the field activities, a Well Completion Report Form – DWR 188 was completed for each decommissioned groundwater monitoring well and was submitted to ACPWA and DWR. Copies of the DWR forms are included in Appendix D.

5.0 REFERENCES

AMEC Geomatrix, Inc. (AMEC), 2010. Soil Investigation Work Plan, Pacific Gas and Electric Company, Oakland General Construction Yard, 4930 Coliseum Way, Oakland, California, September 16.

Alameda County Health Care Services Agency (ACHCSA), 2014. Case File Review for SLIC Case No. RO0000099 and GeoTracker Global ID T0600100258, PG&E, 4930 Coliseum Way, Oakland, CA 94601, May 7.

Figures



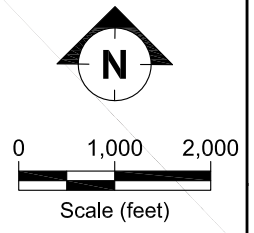
FILENAME: Topo1210.DWG 12/26/10



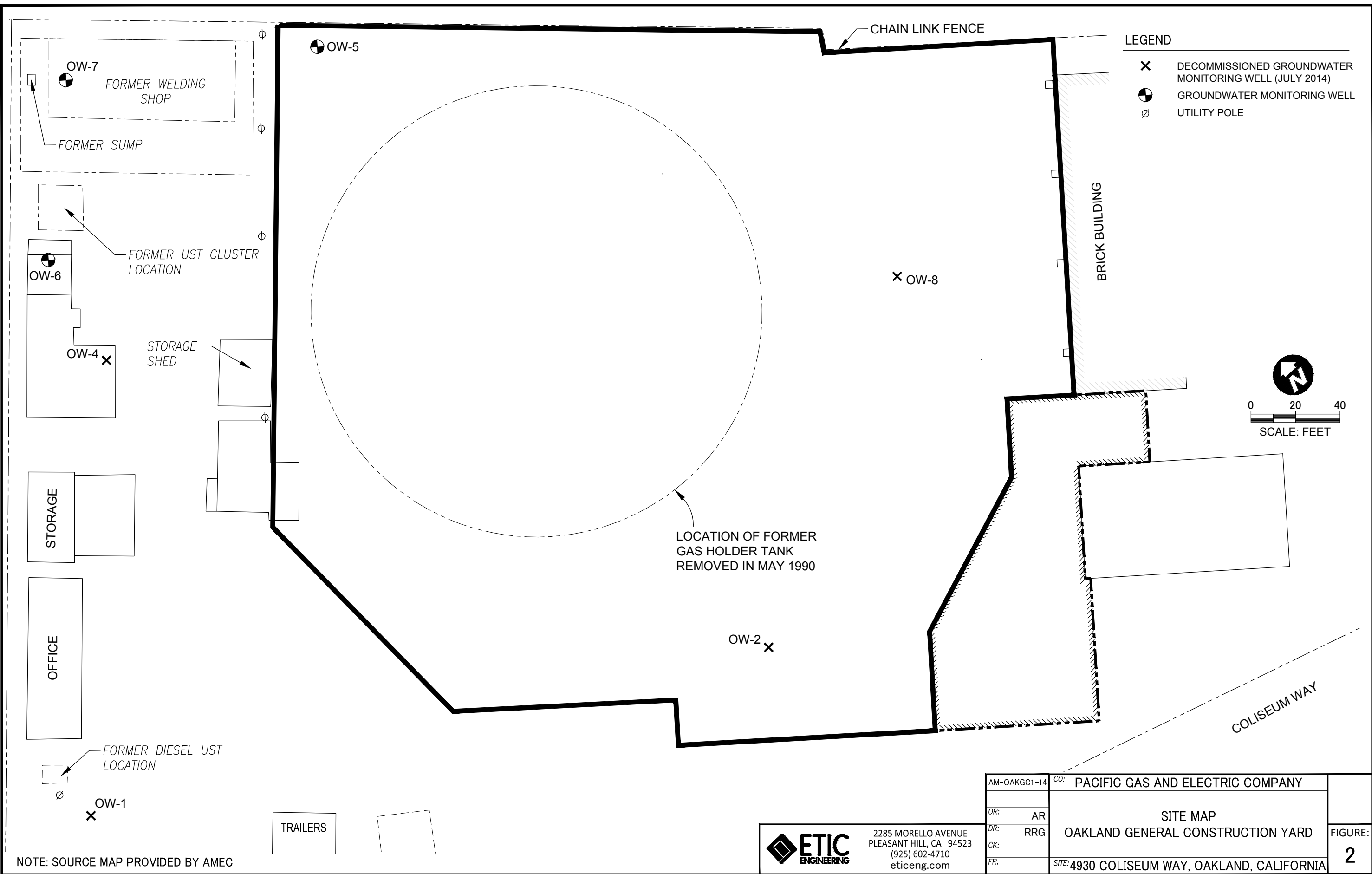
SITE LOCATION AND TOPOGRAPHIC MAP
 OAKLAND GENERAL CONSTRUCTION YARD
 4930 COLISEUM WAY
 OAKLAND, CALIFORNIA

FIGURE:

1



08/25/2014, G:\Graphics\AM\OAKGC1-14\Well-DECOM-0814.dwg, Tab: Fig1



NOTE: SOURCE MAP PROVIDED BY AMEC

TRAILERS

ETIC ENGINEERING
 2285 MORELLO AVENUE
 PLEASANT HILL, CA 94523
 (925) 602-4710
 eticeng.com

AM-OAKGC1-14	CO: PACIFIC GAS AND ELECTRIC COMPANY	
OR: AR	SITE MAP OAKLAND GENERAL CONSTRUCTION YARD	FIGURE:
DR: RRG		2
CK:		
FR:		
SITE: 4930 COLISEUM WAY, OAKLAND, CALIFORNIA		

Tables

TABLE 1 MONITORING WELL CONSTRUCTION DETAILS
 PG&E Oakland General Construction Yard
 4930 Coliseum Way, Oakland, California

Well Number	Date Installed	Date Decommissioned	Borehole Diameter (inches)	Borehole Depth (feet bgs)	Well Depth (feet bgs)	Casing Diameter (inches)	Casing Material	Screened Interval (feet bgs)	Slot Size (inches)	Filter Pack Interval (feet bgs)	Filter Pack Material
OW-1	3/17/1988	7/21/2014	8	18	18	2	PVC	3-18	0.010	2.5-18	unknown
OW-2	3/22/1988	7/21/2014	8	19	19	2	PVC	4-19	0.010	3.5-19	#2/12 sand
OW-3	3/16/1988	NA	8	18.5	18.5	2	PVC	3.5-18.5	0.010	3-18.5	unknown
OW-4	5/18/1988	7/21/2014	12	21.75	20.75	2	PVC	NA-20.75	0.010	NA-21.75	#2/12 sand
OW-5	4/16/1991	---	8	16.5	16.5	2	PVC	6.5-16.5	0.020	6-16.5	#3 sand
OW-6	12/19/1991	---	8	18.5	18	2	PVC	8-18	0.020	6-18.5	#2/12 sand
OW-7	12/19/1991	---	8	18	18	2	PVC	8-18	0.020	6-18	#2/12 sand
OW-8	2/10/1993	7/21/2014	8	18.33	18	2	PVC	8-18	0.020	7-18	#2/12 sand

Notes:

- TOC = Top of well casing elevation; datam is mean sea level.
- PVC = Polyvinyl chloride.
- feet bgs = Feet below ground surface.
- NA = Not available.
- = Not applicable.

Appendix A

Regulatory Correspondence



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

May 7, 2014

Ms. Kathleen Isaacson (*Sent via E-mail to: kai3@pge.com*)
PG&E Consultant Project Manager
WAU & Company
3401 Crow Canyon Road
San Ramon, CA 94583

Subject: Case File Review for SLIC Case No. RO0000099 and GeoTracker Global ID T0600100258, PG&E, 4930 Coliseum Way, Oakland, CA 94601

Dear Ms. Isaacson:

Alameda County Environmental Health (ACEH) staff has reviewed the Spills, Leaks, Investigations, and Cleanups (SLIC) case file for the above referenced site including the most recent correspondence entitled, "*Corrective Action Plan Implementation Status Update, PG&E Oakland Construction Yard, 4930 Coliseum Way, Oakland, California,*" dated May 1, 2014 (Status Update). The Status Update, which was prepared on your behalf by AMEC Environment & Infrastructure, Inc., requests that implementation of the Corrective Action Plan (CAP) be delayed until the 3rd quarter of 2015. CAP implementation, which would involve repaving of approximately 27,000 square feet of the site, was previously scheduled for 2014. Delay of the start is requested based on improvements to the asphalt surface that were made as part of PG&E site maintenance in September 2013. ACEH concurs with the proposal to delay repaving of the site until the 3rd quarter of 2015. Please present results of the CAP implementation in the Remedial Progress Report requested below.

The Status Update also requests that ACEH approval to destroy monitoring wells OW-1, OW-2, OW-4, OW-5, and OW-8. ACEH has no objection to destruction of these monitoring wells prior to CAP implementation. Monitoring wells OW-6 and OW-7 are to remain in place. Well destruction permits may be obtained from the Alameda County Public Works Agency (<http://www.acgov.org/pwa/wells/index.shtml>). Upon completion of the well destruction, please present documentation of the well destruction and waste disposal to this office.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **September 30, 2015** – Begin CAP Implementation
- **November 30, 2015** – Remedial Progress Report
File to be named: REM_R_yyyy-mm-dd RO99

Ms. Kathleen Isaacson
RO0000099
May 7, 2014
Page 2

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,



Digitally signed by Jerry Wickham
DN: cn=Jerry Wickham, o=Alameda County
Environmental Health, ou,
email=jerry.wickham@acgov.org, c=US
Date: 2014.05.07 15:17:38 -07'00'

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ann Conner (*Sent via E-mail to: apb1@pge.com*), PG&E, 3401 Crow Canyon Road, Room 176C,
San Ramon, CA 94583

Yemia Hashimoto, AMEC Environment & Infrastructure, Inc., 2101 Webster Street #12, Oakland, CA
94612 (*Sent via E-mail to: Yemia.Hashimoto@amec.com*)

Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)

GeoTracker, eFile

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements. (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)	REVISION DATE: July 25, 2012
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) require submission of all reports in electronic form to the county's FTP site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single Portable Document Format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

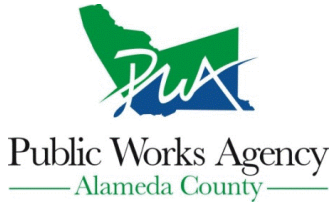
Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to .loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to .loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload.** (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

Appendix B

Well Decommissioning Permit

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/17/2014 By jamesy

Permit Numbers: W2014-0659 to W2014-0663
Permits Valid from 07/21/2014 to 07/23/2014

Application Id: 1405460723150
Site Location: 4930 Coliseum Way, Oakland, CA
Project Start Date: 07/21/2014
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland

Completion Date:07/23/2014

Applicant: PeneCore Drilling - Tuan Nguyen
1238 Alice St, Woodland, CA 95776

Phone: 530-661-3600

Property Owner: PG &E
PO Box 770000, San Francisco, CA 94177

Phone: --

Client: PG &E
3400 Crow Canyon Rd, San Ramon, CA 94583

Phone: 415-392-3875

	Receipt Number: WR2014-0285	Total Due:	\$1985.00
	Payer Name : Cindy Buitrago=ETIC	Total Amount Paid:	\$1985.00
		Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 5 Wells

Driller: PeneCore - Lic #: 906899 - Method: hstem

Work Total: \$1985.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2014-0659	07/17/2014	10/19/2014	OW1	8.00 in.	2.00 in.	2.50 ft	18.00 ft	No Records	93058 ?	No Records
W2014-0660	07/17/2014	10/19/2014	OW2	8.00 in.	2.00 in.	3.50 ft	19.00 ft	No Records	93058 ?	No Records
W2014-0661	07/17/2014	10/19/2014	OW4	12.00 in.	2.00 in.	7.00 ft	21.90 ft	No Records	93058 ?	No Records
W2014-0662	07/17/2014	10/19/2014	OW5	8.00 in.	2.00 in.	6.50 ft	16.50 ft	No Records	93058 ?	No Records
W2014-0663	07/17/2014	10/19/2014	OW8	8.00 in.	2.00 in.	7.00 ft	18.40 ft	No Records	93058 ?	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and

Alameda County Public Works Agency - Water Resources Well Permit

mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

4. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.
6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
7. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
8. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

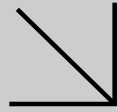
9. Remove the Christy box or similar structure. Pressure Grout with Cement (Less than 30 ft in depth). After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
 10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation



Calscience



WORK ORDER NUMBER: 14-07-1559

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: ETIC Engineering, Inc.

Client Project Name: PG&E Oakland General Construction Yard (OAKGC1-14)

Attention: Tom Neely
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Approved for release on 07/31/2014 by:
Kristin Beckley
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Contents

Client Project Name: PG&E Oakland General Construction Yard (OAKGC1-14)
 Work Order Number: 14-07-1559

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/23/14. They were assigned to Work Order 14-07-1559.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

<p>Client: ETIC Engineering, Inc. 2285 Morello Avenue Pleasant Hill, CA 94523-1850</p>	<p>Work Order: 14-07-1559 Project Name: PG&E Oakland General Construction Yard (OAKGC1-14) PO Number: Date/Time Received: 07/23/14 10:00 Number of Containers: 5</p>
<p>Attn: Tom Neely</p>	

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
Waste Water	14-07-1559-1	07/21/14 17:05	5	Aqueous



Return to Contents

Detections Summary

Client: ETIC Engineering, Inc.
 2285 Morello Avenue
 Pleasant Hill, CA 94523-1850

Work Order: 14-07-1559
 Project Name: PG&E Oakland General Construction Yard
 (OAKGC1-14)
 Received: 07/23/14

Attn: Tom Neely

Page 1 of 1

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
Waste Water (14-07-1559-1)						
Barium	0.775		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Chromium	0.317		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Cobalt	0.0430		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Copper	0.108		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Lead	0.407		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	0.0771		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Nickel	0.0707		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Silver	0.0100		0.00500	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	0.152		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Zinc	1.75		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Diesel Range Organics	480	HD	50	ug/L	EPA 8015B	EPA 3510C
Acetone	300		100	ug/L	GC/MS / EPA 8260B	EPA 5030C
2-Butanone	340		50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Gasoline Range Organics (C4-C12)	510		250	ug/L	GC/MS / EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown



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Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3510C
Method: EPA 8015B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Waste Water	14-07-1559-1-D	07/21/14 17:05	Aqueous	GC 45	07/25/14	07/26/14 07:54	140725B09
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Diesel Range Organics		480		50		1.00	HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		68-140			
Method Blank	099-15-418-787	N/A	Aqueous	GC 45	07/25/14	07/26/14 01:57	140725B09
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Diesel Range Organics		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		82		68-140			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Waste Water	14-07-1559-1-E	07/21/14 17:05	Aqueous	ICP 7300	07/24/14	07/25/14 20:00	140724LA4

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	0.775	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	0.317	0.0100	1.00	
Cobalt	0.0430	0.0100	1.00	
Copper	0.108	0.0100	1.00	
Lead	0.407	0.0100	1.00	
Molybdenum	0.0771	0.0100	1.00	
Nickel	0.0707	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	0.0100	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	0.152	0.0100	1.00	
Zinc	1.75	0.0100	1.00	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3010A Total
Method: EPA 6010B
Units: mg/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-14371	N/A	Aqueous	ICP 7300	07/24/14	07/25/14 19:13	140724LA4

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Antimony	ND	0.0150	1.00	
Arsenic	ND	0.0100	1.00	
Barium	ND	0.0100	1.00	
Beryllium	ND	0.0100	1.00	
Cadmium	ND	0.0100	1.00	
Chromium	ND	0.0100	1.00	
Cobalt	ND	0.0100	1.00	
Copper	ND	0.0100	1.00	
Lead	ND	0.0100	1.00	
Molybdenum	ND	0.0100	1.00	
Nickel	ND	0.0100	1.00	
Selenium	ND	0.0150	1.00	
Silver	ND	0.00500	1.00	
Thallium	ND	0.0150	1.00	
Vanadium	ND	0.0100	1.00	
Zinc	ND	0.0100	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 7470A Total
Method: EPA 7470A
Units: mg/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Waste Water	14-07-1559-1-E	07/21/14 17:05	Aqueous	Mercury 04	07/29/14	07/29/14 20:13	140729L03
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.000500		1.00	
Method Blank	099-04-008-7049	N/A	Aqueous	Mercury 04	07/29/14	07/29/14 13:56	140729L03
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
Mercury		ND		0.000500		1.00	


 Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Waste Water	14-07-1559-1-C	07/21/14 17:05	Aqueous	GC/MS W	07/26/14	07/27/14 07:17	140726L016
Parameter	Result	RL	DF	Qualifiers			
Acetone	300	100	5.00				
Benzene	ND	2.5	5.00				
Bromobenzene	ND	5.0	5.00				
Bromochloromethane	ND	5.0	5.00				
Bromodichloromethane	ND	5.0	5.00				
Bromoform	ND	5.0	5.00				
Bromomethane	ND	50	5.00				
2-Butanone	340	50	5.00				
n-Butylbenzene	ND	5.0	5.00				
sec-Butylbenzene	ND	5.0	5.00				
tert-Butylbenzene	ND	5.0	5.00				
Carbon Disulfide	ND	50	5.00				
Carbon Tetrachloride	ND	2.5	5.00				
Chlorobenzene	ND	5.0	5.00				
Chloroethane	ND	25	5.00				
Chloroform	ND	5.0	5.00				
Chloromethane	ND	50	5.00				
2-Chlorotoluene	ND	5.0	5.00				
4-Chlorotoluene	ND	5.0	5.00				
Dibromochloromethane	ND	5.0	5.00				
1,2-Dibromo-3-Chloropropane	ND	25	5.00				
1,2-Dibromoethane	ND	5.0	5.00				
Dibromomethane	ND	5.0	5.00				
1,2-Dichlorobenzene	ND	5.0	5.00				
1,3-Dichlorobenzene	ND	5.0	5.00				
1,4-Dichlorobenzene	ND	5.0	5.00				
Dichlorodifluoromethane	ND	5.0	5.00				
1,1-Dichloroethane	ND	5.0	5.00				
1,2-Dichloroethane	ND	2.5	5.00				
1,1-Dichloroethene	ND	5.0	5.00				
c-1,2-Dichloroethene	ND	5.0	5.00				
t-1,2-Dichloroethene	ND	5.0	5.00				
1,2-Dichloropropane	ND	5.0	5.00				
1,3-Dichloropropane	ND	5.0	5.00				
2,2-Dichloropropane	ND	5.0	5.00				

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 2 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	5.0	5.00	
c-1,3-Dichloropropene	ND	2.5	5.00	
t-1,3-Dichloropropene	ND	2.5	5.00	
Ethylbenzene	ND	5.0	5.00	
2-Hexanone	ND	50	5.00	
Isopropylbenzene	ND	5.0	5.00	
p-Isopropyltoluene	ND	5.0	5.00	
Methylene Chloride	ND	50	5.00	
4-Methyl-2-Pentanone	ND	50	5.00	
Naphthalene	ND	50	5.00	
n-Propylbenzene	ND	5.0	5.00	
Styrene	ND	5.0	5.00	
1,1,1,2-Tetrachloroethane	ND	5.0	5.00	
1,1,2,2-Tetrachloroethane	ND	5.0	5.00	
Tetrachloroethene	ND	5.0	5.00	
Toluene	ND	5.0	5.00	
1,2,3-Trichlorobenzene	ND	5.0	5.00	
1,2,4-Trichlorobenzene	ND	5.0	5.00	
1,1,1-Trichloroethane	ND	5.0	5.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5.00	
1,1,2-Trichloroethane	ND	5.0	5.00	
Trichloroethene	ND	5.0	5.00	
Trichlorofluoromethane	ND	50	5.00	
1,2,3-Trichloropropane	ND	25	5.00	
1,2,4-Trimethylbenzene	ND	5.0	5.00	
1,3,5-Trimethylbenzene	ND	5.0	5.00	
Vinyl Acetate	ND	50	5.00	
Vinyl Chloride	ND	2.5	5.00	
p/m-Xylene	ND	5.0	5.00	
o-Xylene	ND	5.0	5.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	5.00	
Tert-Butyl Alcohol (TBA)	ND	50	5.00	
Diisopropyl Ether (DIPE)	ND	10	5.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	5.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	5.00	
Ethanol	ND	500	5.00	
Gasoline Range Organics (C4-C12)	510	250	5.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	94	88-112	
1,4-Bromofluorobenzene	95	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-6605	N/A	Aqueous	GC/MS W	07/26/14	07/27/14 02:04	140726L016

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Acetone	ND	20	1.00	
Benzene	ND	0.50	1.00	
Bromobenzene	ND	1.0	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromodichloromethane	ND	1.0	1.00	
Bromoform	ND	1.0	1.00	
Bromomethane	ND	10	1.00	
2-Butanone	ND	10	1.00	
n-Butylbenzene	ND	1.0	1.00	
sec-Butylbenzene	ND	1.0	1.00	
tert-Butylbenzene	ND	1.0	1.00	
Carbon Disulfide	ND	10	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	1.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	1.0	1.00	
Chloromethane	ND	10	1.00	
2-Chlorotoluene	ND	1.0	1.00	
4-Chlorotoluene	ND	1.0	1.00	
Dibromochloromethane	ND	1.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	1.0	1.00	
Dibromomethane	ND	1.0	1.00	
1,2-Dichlorobenzene	ND	1.0	1.00	
1,3-Dichlorobenzene	ND	1.0	1.00	
1,4-Dichlorobenzene	ND	1.0	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
1,1-Dichloroethane	ND	1.0	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	1.0	1.00	
c-1,2-Dichloroethene	ND	1.0	1.00	
t-1,2-Dichloroethene	ND	1.0	1.00	
1,2-Dichloropropane	ND	1.0	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
2,2-Dichloropropane	ND	1.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 5 of 6

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,1-Dichloropropene	ND	1.0	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	
Ethylbenzene	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Isopropylbenzene	ND	1.0	1.00	
p-Isopropyltoluene	ND	1.0	1.00	
Methylene Chloride	ND	10	1.00	
4-Methyl-2-Pentanone	ND	10	1.00	
Naphthalene	ND	10	1.00	
n-Propylbenzene	ND	1.0	1.00	
Styrene	ND	1.0	1.00	
1,1,1,2-Tetrachloroethane	ND	1.0	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	1.00	
Tetrachloroethene	ND	1.0	1.00	
Toluene	ND	1.0	1.00	
1,2,3-Trichlorobenzene	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	1.0	1.00	
1,1,1-Trichloroethane	ND	1.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1.00	
1,1,2-Trichloroethane	ND	1.0	1.00	
Trichloroethene	ND	1.0	1.00	
Trichlorofluoromethane	ND	10	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	1.0	1.00	
1,3,5-Trimethylbenzene	ND	1.0	1.00	
Vinyl Acetate	ND	10	1.00	
Vinyl Chloride	ND	0.50	1.00	
p/m-Xylene	ND	1.0	1.00	
o-Xylene	ND	1.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.00	
Ethanol	ND	100	1.00	
Gasoline Range Organics (C4-C12)	ND	50	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	95	88-112	
1,4-Bromofluorobenzene	90	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1627-2	Sample	Aqueous	ICP 7300	07/24/14	07/30/14 14:49	140724SA4
14-07-1627-2	Matrix Spike	Aqueous	ICP 7300	07/24/14	07/25/14 19:22	140724SA4
14-07-1627-2	Matrix Spike Duplicate	Aqueous	ICP 7300	07/24/14	07/25/14 19:23	140724SA4

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	0.5000	0.5157	103	0.5228	105	72-132	1	0-10	
Arsenic	0.09913	0.5000	0.6083	102	0.6154	103	80-140	1	0-11	
Barium	0.3165	0.5000	0.7761	92	0.7968	96	87-123	3	0-6	
Beryllium	ND	0.5000	0.5177	104	0.5253	105	89-119	1	0-8	
Cadmium	ND	0.5000	0.5044	101	0.5192	104	82-124	3	0-7	
Chromium	ND	0.5000	0.4940	99	0.5033	101	86-122	2	0-8	
Cobalt	ND	0.5000	0.5292	106	0.5371	107	83-125	1	0-7	
Copper	ND	0.5000	0.5114	102	0.5338	107	78-126	4	0-7	
Lead	ND	0.5000	0.5075	102	0.5167	103	84-120	2	0-7	
Molybdenum	ND	0.5000	0.5239	105	0.5353	107	78-126	2	0-7	
Nickel	ND	0.5000	0.5087	102	0.5206	104	84-120	2	0-7	
Selenium	ND	0.5000	0.5169	103	0.5270	105	79-127	2	0-9	
Silver	ND	0.2500	0.2621	105	0.2647	106	86-128	1	0-7	
Thallium	ND	0.5000	0.5039	101	0.5098	102	79-121	1	0-8	
Vanadium	ND	0.5000	0.5049	101	0.5157	103	88-118	2	0-7	
Zinc	ND	0.5000	0.5065	101	0.5254	105	89-131	4	0-8	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 7470A Total
Method: EPA 7470A

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1725-1	Sample	Aqueous	Mercury 04	07/29/14	07/29/14 14:01	140729S03
14-07-1725-1	Matrix Spike	Aqueous	Mercury 04	07/29/14	07/29/14 14:03	140729S03
14-07-1725-1	Matrix Spike Duplicate	Aqueous	Mercury 04	07/29/14	07/29/14 14:05	140729S03

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.005000	0.006681	134	0.005799	116	80-120	14	0-14	3

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-1804-7	Sample	Aqueous	GC/MS W	07/26/14	07/27/14 04:55	140726S008
14-07-1804-7	Matrix Spike	Aqueous	GC/MS W	07/26/14	07/27/14 05:23	140726S008
14-07-1804-7	Matrix Spike Duplicate	Aqueous	GC/MS W	07/26/14	07/27/14 05:52	140726S008

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	50.64	101	47.78	96	74-122	6	0-21	
Carbon Tetrachloride	ND	50.00	49.58	99	46.30	93	60-144	7	0-21	
Chlorobenzene	ND	50.00	49.23	98	48.15	96	73-120	2	0-22	
1,2-Dibromoethane	ND	50.00	48.61	97	47.87	96	80-122	2	0-20	
1,2-Dichlorobenzene	ND	50.00	47.57	95	46.46	93	70-120	2	0-26	
1,2-Dichloroethane	ND	50.00	51.63	103	49.05	98	64-142	5	0-20	
1,1-Dichloroethene	ND	50.00	46.32	93	44.37	89	52-136	4	0-21	
Ethylbenzene	ND	50.00	49.26	99	47.44	95	77-125	4	0-24	
Toluene	ND	50.00	50.64	101	49.39	99	72-126	2	0-23	
Trichloroethene	ND	50.00	50.54	101	47.43	95	74-128	6	0-22	
Vinyl Chloride	ND	50.00	40.93	82	40.28	81	67-133	2	0-20	
p/m-Xylene	ND	100.0	103.2	103	99.41	99	63-129	4	0-25	
o-Xylene	ND	50.00	55.05	110	52.69	105	62-128	4	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	37.67	75	47.25	94	68-134	23	0-21	4
Tert-Butyl Alcohol (TBA)	ND	250.0	243.5	97	291.9	117	65-143	18	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	49.78	100	48.64	97	61-139	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	49.11	98	46.70	93	64-136	5	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	49.04	98	44.69	89	67-133	9	0-20	
Ethanol	ND	500.0	556.2	111	597.6	120	34-178	7	0-58	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - PDS

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 7470A Total
Method: EPA 7470A

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
14-07-1725-1	Sample	Aqueous	Mercury 04	07/29/14 00:00	07/29/14 14:01	140729S03
14-07-1725-1	PDS	Aqueous	Mercury 04	07/29/14 00:00	07/29/14 14:08	140729S03
Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Mercury	ND	0.005000	0.005716	114	75-125	

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3510C
Method: EPA 8015B

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number				
099-15-418-787	LCS	Aqueous	GC 45	07/25/14	07/26/14 02:14	140725B09				
099-15-418-787	LCSD	Aqueous	GC 45	07/25/14	07/26/14 02:33	140725B09				
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers	
Diesel Range Organics	2000	2053	103	2147	107	75-117	4	0-13		

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
097-01-003-14371	LCS	Aqueous	ICP 7300	07/24/14	07/25/14 19:15	140724LA4	
Parameter		Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony		0.5000	0.5079	102	80-120	73-127	
Arsenic		0.5000	0.4889	98	80-120	73-127	
Barium		0.5000	0.4955	99	80-120	73-127	
Beryllium		0.5000	0.4931	99	80-120	73-127	
Cadmium		0.5000	0.5179	104	80-120	73-127	
Chromium		0.5000	0.5015	100	80-120	73-127	
Cobalt		0.5000	0.5500	110	80-120	73-127	
Copper		0.5000	0.5199	104	80-120	73-127	
Lead		0.5000	0.5261	105	80-120	73-127	
Molybdenum		0.5000	0.5200	104	80-120	73-127	
Nickel		0.5000	0.5243	105	80-120	73-127	
Selenium		0.5000	0.4749	95	80-120	73-127	
Silver		0.2500	0.2355	94	80-120	73-127	
Thallium		0.5000	0.5259	105	80-120	73-127	
Vanadium		0.5000	0.4894	98	80-120	73-127	
Zinc		0.5000	0.5107	102	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 7470A Total
Method: EPA 7470A

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-04-008-7049	LCS	Aqueous	Mercury 04	07/29/14	07/29/14 13:59	140729L03
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury		0.01000	0.009921	99	85-121	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 07/23/14
Work Order: 14-07-1559
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B

Project: PG&E Oakland General Construction Yard (OAKGC1-14)

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number					
099-12-767-6605	LCS	Aqueous	GC/MS W	07/26/14	07/27/14 00:38	140726L016					
099-12-767-6605	LCSD	Aqueous	GC/MS W	07/26/14	07/27/14 01:07	140726L016					
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers	
Benzene	50.00	49.19	98	N/A	N/A	80-120	73-127	N/A	0-20		
Carbon Tetrachloride	50.00	46.63	93	N/A	N/A	67-139	55-151	N/A	0-20		
Chlorobenzene	50.00	49.35	99	N/A	N/A	78-120	71-127	N/A	0-20		
1,2-Dibromoethane	50.00	48.21	96	N/A	N/A	80-120	73-127	N/A	0-20		
1,2-Dichlorobenzene	50.00	47.71	95	N/A	N/A	63-129	52-140	N/A	0-20		
1,2-Dichloroethane	50.00	48.02	96	N/A	N/A	70-130	60-140	N/A	0-20		
1,1-Dichloroethane	50.00	46.44	93	N/A	N/A	66-126	56-136	N/A	0-20		
Ethylbenzene	50.00	50.05	100	N/A	N/A	80-123	73-130	N/A	0-20		
Toluene	50.00	49.98	100	N/A	N/A	80-120	73-127	N/A	0-20		
Trichloroethane	50.00	51.40	103	N/A	N/A	80-122	73-129	N/A	0-20		
Vinyl Chloride	50.00	43.10	86	N/A	N/A	70-130	60-140	N/A	0-20		
p/m-Xylene	100.0	105.9	106	N/A	N/A	75-123	67-131	N/A	0-25		
o-Xylene	50.00	55.44	111	N/A	N/A	74-122	66-130	N/A	0-25		
Methyl-t-Butyl Ether (MTBE)	50.00	49.66	99	N/A	N/A	69-129	59-139	N/A	0-22		
Tert-Butyl Alcohol (TBA)	250.0	221.8	89	N/A	N/A	69-129	59-139	N/A	0-25		
Diisopropyl Ether (DIPE)	50.00	49.64	99	N/A	N/A	68-128	58-138	N/A	0-20		
Ethyl-t-Butyl Ether (ETBE)	50.00	50.86	102	N/A	N/A	63-135	51-147	N/A	0-20		
Tert-Amyl-Methyl Ether (TAME)	50.00	50.63	101	N/A	N/A	67-133	56-144	N/A	0-20		
Ethanol	500.0	519.4	104	N/A	N/A	42-168	21-189	N/A	0-20		
TPPH	1000	1089	109	1085	109	65-135	53-147	0	0-30		

Total number of LCS compounds: 20

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-07-1559

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDS or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

CHAIN OF CUSTODY RECORD

DATE: 7/21/14
PAGE: 1 OF 1

LABORATORY CLIENT: ETIC Engineering, Inc.						GLOBAL ID # / COELT LOG CODE:						P.O. Invoice Yemia Hashimoto at AMEC									
ADDRESS: 2285 Morello Avenue						PROJECT CONTACT: Tom Neely, ETIC Engineering, Inc.						14-07-1559									
CITY: Pleasant Hill, CA						SAMPLER(S) (SIGNATURE) 															
TEL: 925-602-4710 Ext. 2161		FAX: 925-602-4720		EMAIL: <i>See Instructions</i>		REQUESTED ANALYSIS						COOLER RECEIPT Temp = _____ °C									
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS																					
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL _____ / _____ / _____						<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8260B EPA 8260B/GC/MS VOCs plus TPHg</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015B Diesel Range Organics (DRO)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">6010B Metals (ICP)/7470A or 7471A Title 22 Metals</div> </div>						CONTAINER TYPE									
SPECIAL INSTRUCTIONS: email report to eticlabreports@eticeng.com , tneely@eticeng.com PG&E Oakland General Construction Yard (PG-OAKGC1-14)																					
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		MATRIX	NO. OF CONT.															
			DATE	TIME																	
	Waste Water		7/21/14	1705	liquid	1	X														40ml VOA w/ HCl
	Waste Water			1705		1	X														40ml VOA w/ HCl
	Waste Water			1705		1	X														40ml VOA w/ HCl
	Waste Water			1710		1		X													1L Amber
	Waste Water			1700		1			X												Poly w/ Nitric Acid
Relinquished by: (Signature) 						Received by: (Signature) 						Date, & Time: 7/22/14 0920									
Relinquished by: (Signature) 						Received by: (Signature) 						Date, & Time: 7/23/14 1000									
Relinquished by: (Signature) 						Received by: (Signature) 						Date, & Time: 7/23/14 1000									

1559



< WebShip > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Tracking #: 525203899



NPS

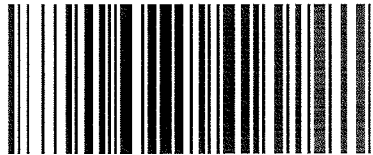
Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD:
\$0.00

D92845A



26815724

Reference:
PHILLIPS 66 , ETIC

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Print Date : 07/22/14 16:55 PM

Package 1 of 1

Send Label To Printer: Print All Edit Shipment Finish

LABEL INSTRUCTIONS:

- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to your package, do not cover the barcode.
- STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

Send Label Via Email Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.

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Calscience

WORK ORDER #: 14-07-1559

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC

DATE: 07/23/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 826

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 826

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....			
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** 826

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** 681

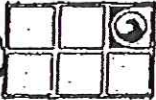
Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered **Scanned by:** 681

Return to Contents

Appendix D

Well Completion Report Forms – DWR 188

PG&E, 1988



GROUNDWATER TECHNOLOGY, INC.
OIL RECOVERY SYSTEMS

Geologist / Engineer ABE License No. 4324

Soil Boring OW-1

Drilling Log

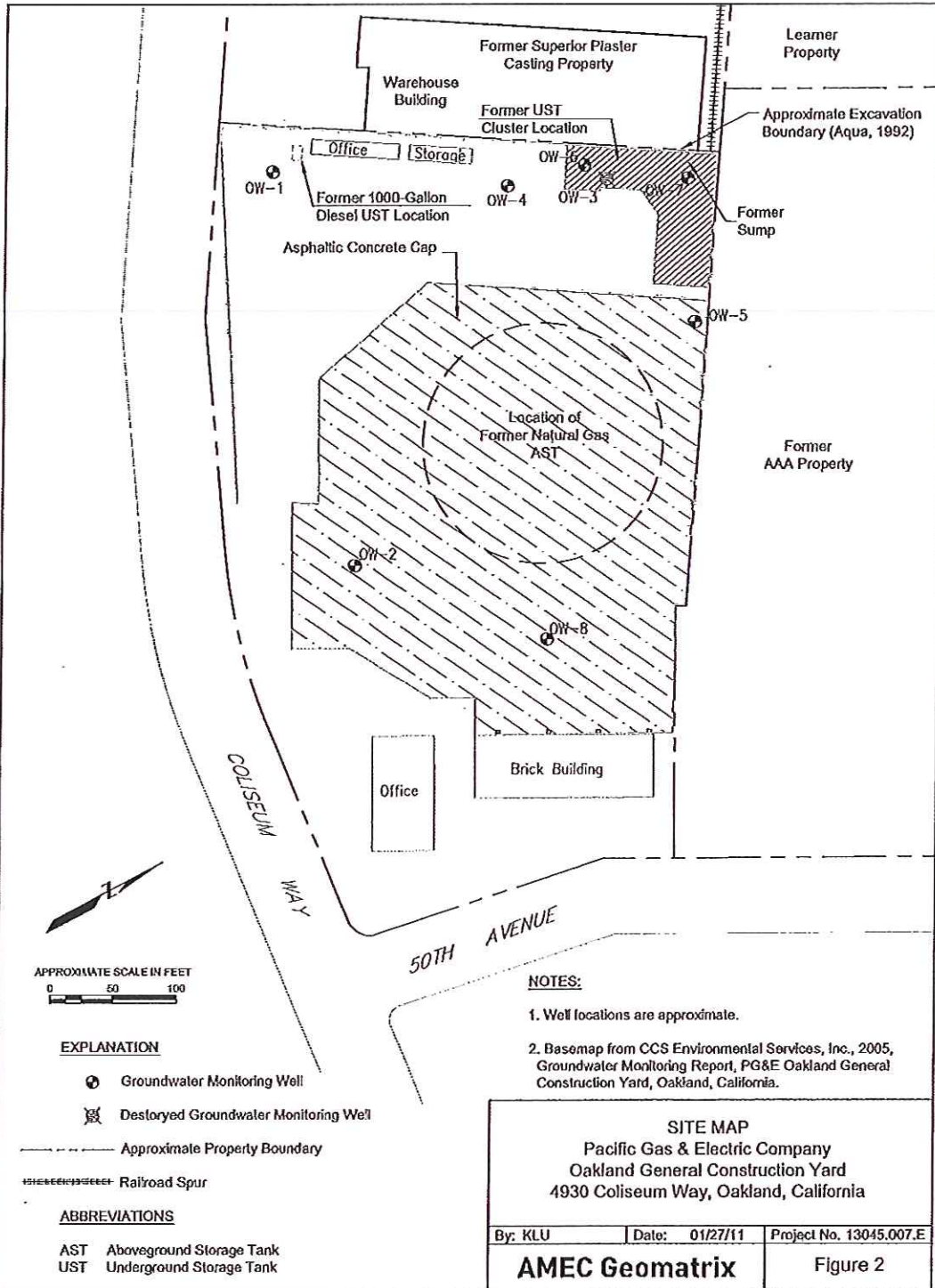
Project PG&E/Oakland Owner Pacific Gas & Electric Co.
 Location Oakland Project Number 203-799-2727
 Date Drilled 3/17/88 Total Depth of Hole 15 ft. Diameter 8 in.
 Surface Elevation _____ Water Level Initial 9.5 ft. 24 hrs
 Screen Dia 2 IN. Length 15 FEET Slot Size .010
 Casing Dia 2 IN. Length 3 FEET Type PVC
 Drilling Company Pacific Gas & Electric Co. Drilling Method HOLLOW STEM AUGER
 Driller N. Hendren Log by D. Uirrine

Sketch Map

Notes

Depth (feet)	Well Construction	TIP (ppm)	Sample Number	Graphic Log	Description/Soil Classification
0					Base course, ± 12 inches
2			30 28 26	GM	Brownish-orange sandy gravel with silt (very dense, moist, no product odor)
4		22	31 29 27	CL	
6		2.5	33 31 29		(Grades to dark grey) Dark grey sandy gravel with clay and silt (very dense, moist, no product odor)
8		31	32 30 28		
10		3.1	18	GC	▼ Encountered water 3/17/88 (1515hrs) (Grades orangish-brown, wet)
12		3.0	32 30 28		
14		2.8	22 24 22	G	(Grades dense)
16					
18					End of boring, installed monitor well.
20					
22					
24					

Plot Date: 01/27/11 - 13:00m. Plotted by: jim.greul
 Drawing Path: S:\13045\13045\13045\007.E\Task_08110_1207_SIR2010-10_ Drawing Name: fig_02_SiteMap.dwg



File Original with DWR

State of California Well Completion Report

Refer to Instruction Pamphlet
No. **e0223491**

DWR Use Only – Do Not Fill In			
State Well Number/Site Number			
Latitude		Longitude	
APN/TRS/Other			

Page 1 of 3

Owner's Well Number OW-2

Date Work Began 07/21/2014

Date Work Ended 7/21/2014

Local Permit Agency Alameda County Public Works Agency

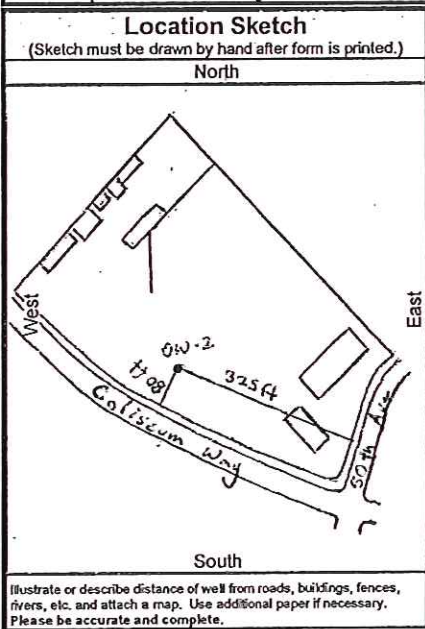
Permit Number W2014-0660

Permit Date 7/17/14

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method _____ Drilling Fluid _____		
Depth from Surface	Feet	Description
Feet	to Feet	Describe material, grain size, color, etc
0	1	Metal traffic box and upper PVC casing removed. Sealed with concrete from 6 inches bgs to surface.
1	19	Well was pressure grouted with neat cement. A tremie pipe was used to add neat cement grout to fill the well casing. Approximately 25 pounds per square inch of pressure was then applied to the casing for 5 minutes to promote the displacement of grout into the filter pack.
See boring log for more information		
Total Depth of Boring <u>19</u> Feet		
Total Depth of Completed Well <u>19</u> Feet		

Well Owner		
Name <u>Pacific Gas and Electric Company</u>		
Mailing Address <u>PO Box 770000</u>		
City <u>San Francisco</u>	State <u>CA</u>	Zip <u>94177</u>

Well Location		
Address <u>4930 Coliseum Way</u>		
City <u>Oakland</u>	County <u>Alameda</u>	
Latitude _____	Longitude _____	
Deg. Min. Sec. N	Deg. Min. Sec. W	
Datum <u>WGS84</u>	Dec. Lat. <u>37.764796</u>	Dec. Long. <u>-122.215293</u>
APN Book <u>43</u>	Page <u>2293</u>	Parcel <u>9-2</u>
Township <u>2S</u>	Range <u>3W</u>	Section <u>17</u>



Activity
<input type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input checked="" type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small>

Planned Uses
<input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____

Water Level and Yield of Completed Well		
Depth to first water _____	(Feet below surface)	
Depth to Static _____	Water Level _____ (Feet) Date Measured _____	
Estimated Yield * _____	(GPM) Test Type _____	
Test Length _____	(Hours) Total Drawdown _____ (Feet)	
*May not be representative of a well's long term yield.		

Casings								Annular Material		
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any	Depth from Surface	Fill	Description
Feet	to Feet	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	Feet	Feet	Feet

Attachments
<input checked="" type="checkbox"/> Geologic Log <input checked="" type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Site Map</u>
<small>Attach additional information, if it exists.</small>

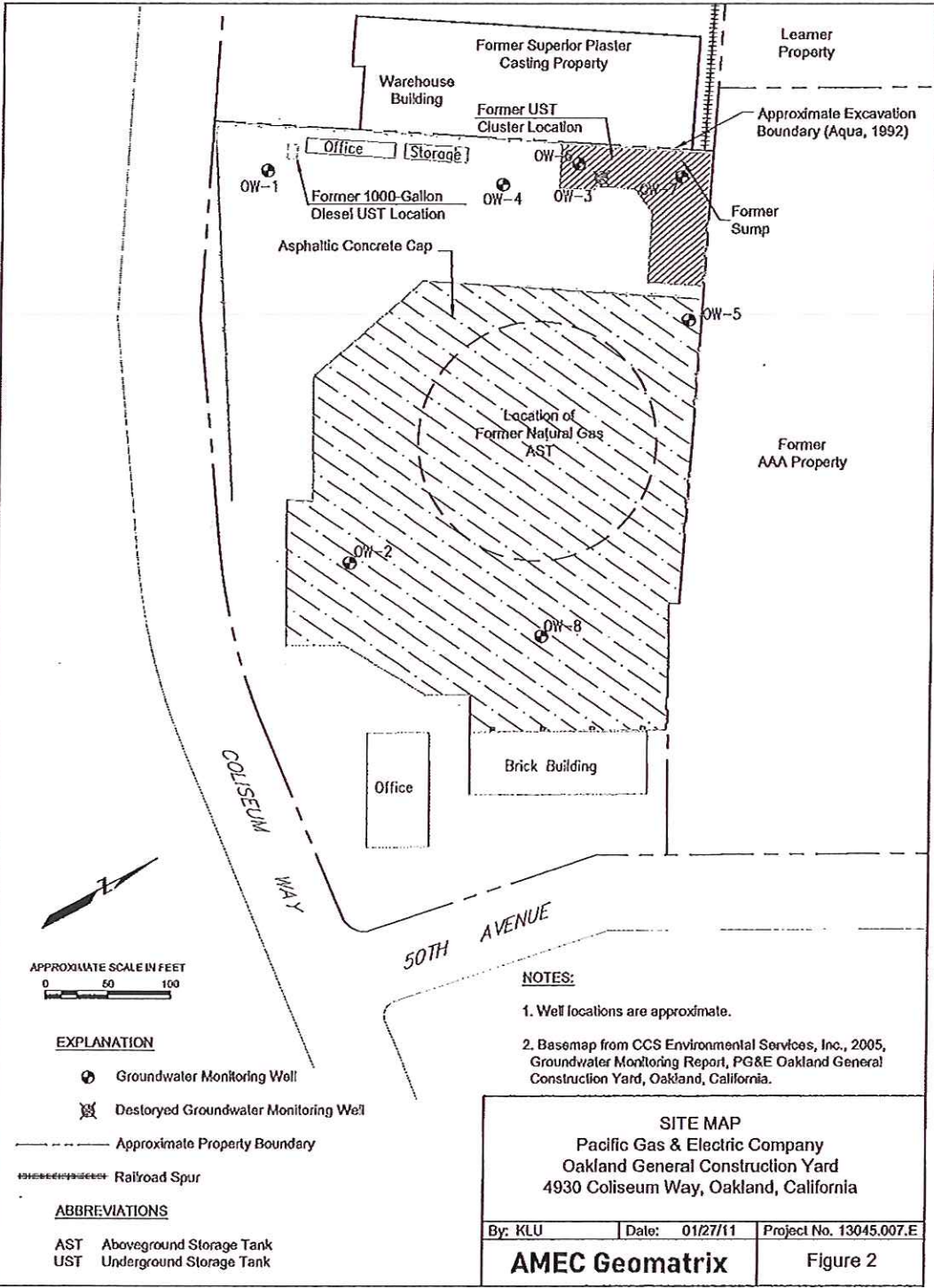
Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name <u>Penecore Drilling</u>			
<small>Corporation</small>			
<u>1220 N. GAST ST.</u>		<u>Woodland</u>	<u>CA 95776</u>
<small>Address</small>		<small>City</small>	<small>State Zip</small>
Signed _____		<u>8/20/14</u>	<u>906899</u>
<small>C-57 Licensed Water Well Contractor</small>		<small>Date Signed</small>	<small>C-57 License Number</small>

FIELD SOIL BORING LOG

Project Oakland GC Yard		Job No. TES 3647	Boring No. OW-2	Sheet 1 of 1
Ground Elevation	Type & Diameter of Boring 8" O.D. Hollow-Stem Auger	Location COLISEUM WAY, OAKLAND		
Bottom of Hole Elevation	Depth 19'	Groundwater Elevation N 9' below grade	Date 3/21/88	Date Started 3/21/88
Name of Operator RON HENDREN		Name of Inspector ERIC JOHNSON	Boring Contractor PG&E MOBILE B-80	
Date Finished 3/22/88				

ELEVATION	DESCRIPTION	DEPTH (FT)	SOIL SYMBOL	SAMPLE TYPE & NUMBER	RECOVERY (INCHES)	BLOWS & IR	NOTES ON GROUNDWATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, METHOD OF ADVANCING BORING, SIZE OF CASING
	PIEZOMETER ONLY. BORING NOT LOGGED. NO SOIL SAMPLES COLLECTED.	0					Concrete seal
		5					Bedrock soil 2" dia PVC solid casing
	GROUNDWATER ENCOUNTERED AT 9'	10					2" dia PVC casing slotted 0.01"
		15					Filter pack: Lone Star No. 2/12 Sand
		20					PVC plug
							Watertight, security traffic box installed at ground surface. 2" pvc cap installed on top of casing.

Plot Date: 01/27/11 - 1:30pm, Plotted by: jmgpaul
 Drawing Path: S:\13045\13045\07_E\Task_0810_1207_SIP2010-10_1.dwg, Drawing Name: fig_02_SiteMap.dwg



SITE MAP Pacific Gas & Electric Company Oakland General Construction Yard 4930 Coliseum Way, Oakland, California		
By: KLU	Date: 01/27/11	Project No. 13045.007.E
AMEC Geomatrix		Figure 2

Job No. **TES 3647** Boring No. **OW-4** Sheet **1** of **1**

PG#E OAKLAND GC YARD

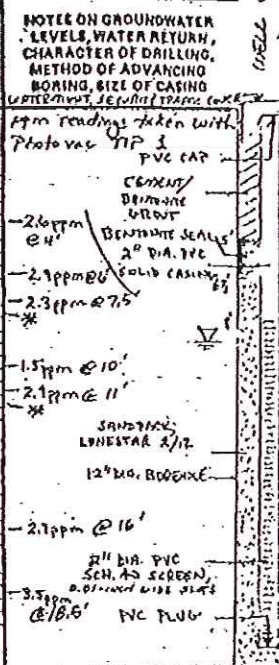
Location **Coliseum Way, Oakland**

Date Bored **5/18/88** Finished **5/18/88**

Driller **RON HENDREN** Name of Installer **DARREN KUNGMAN** Boring Equipment **PG#E Model 8-80**

DEPTH (FEET)	SOIL SYMBOL	SAMPLE TYPE & NUMBER	RECOVERY (INCHES)	BLOW COUNT	SPT	NOTE ON GROUNDWATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, METHOD OF ADVANCING BORING, SIZE OF CASING
0	GW					WELL GRADED GRAVEL - medium brown, dry, dense, gravels to 4" across. Fill (no odor)
1	CL	2-4	19	3		CLAY with silt, sand, gravel, and debris - dark gray with brown mottling, moist, stiff, FILL (no odor) saturated @ 2', decreasing gravel content @ 3' moist @ 4', saturated @ 6'
5	GC	3-3	11	13		CLAYEY GRAVEL with sand - medium grayish-green, moist, dense (no odor)
10	GM	3-3	14	14		SILTY GRAVEL with sand - medium yellowish-brown, wet to saturated @ 9', dense (no odor)
11	GM	3-3	14	14		SILTY SAND - medium yellowish-brown, saturated, dense, sand is medium-grained (no odor)
15	GP	3-3	14	14		POORLY GRADED GRAVEL with silt - medium yellowish brown, saturated, dense, recovered gravels to 1" across (no odor)
16	SC	3-3	10	7		CLAYEY SAND - light brown, saturated, dense, sand is medium to coarse-grained (no odor)
17	CL	3-3	7	7		LEAN CLAY - light brown, saturated, stiff to very stiff (no odor)
20						
25						

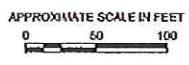
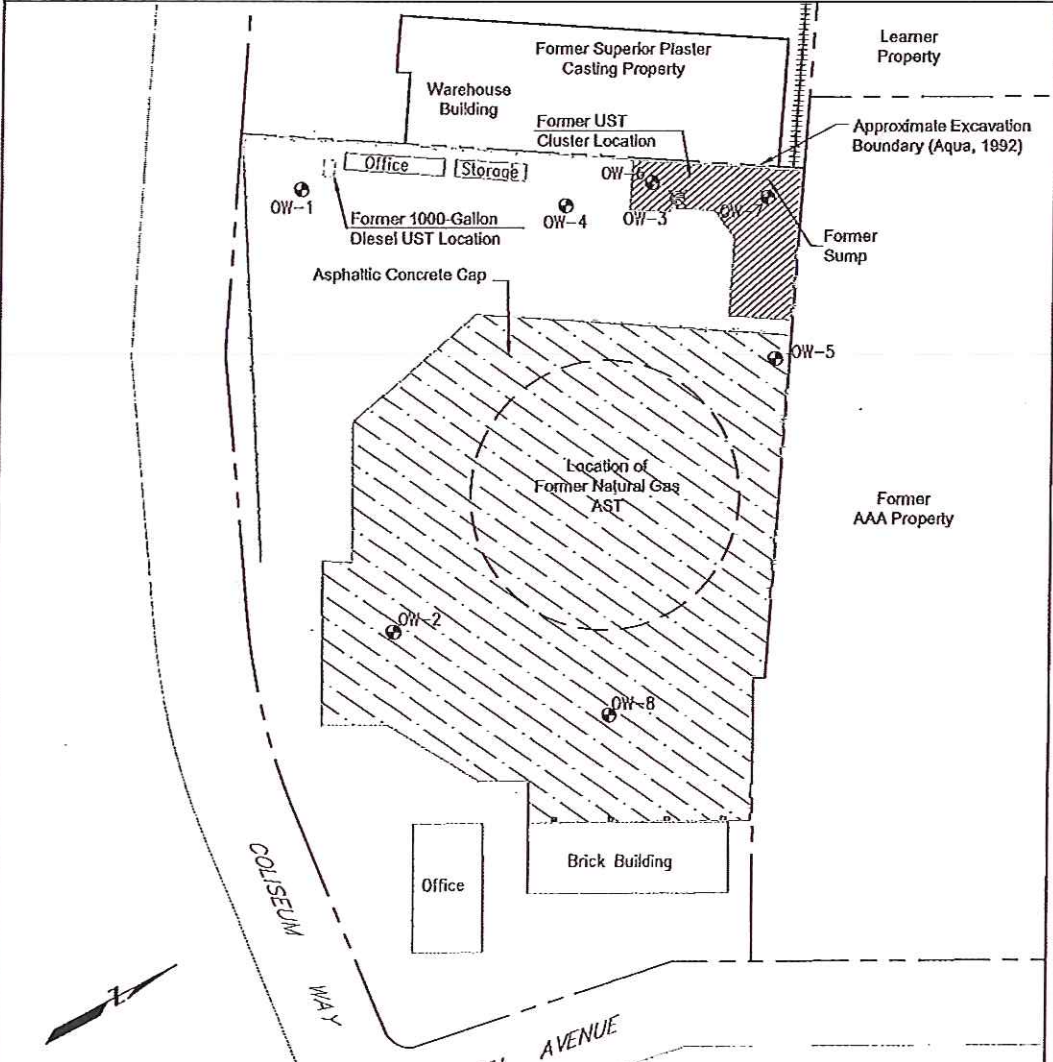
WELL CONSTRUCTION



BORING TERMINATED @ 21' 9"
MONITORING WELL (2" Ø)
INSTALLED

* sample submitted for lab chemical analysis

NOTES:



EXPLANATION

- Groundwater Monitoring Well
- Destroyed Groundwater Monitoring Well
- Approximate Property Boundary
- Railroad Spur

ABBREVIATIONS

- AST Aboveground Storage Tank
- UST Underground Storage Tank

NOTES:

1. Well locations are approximate.
2. Basemap from CCS Environmental Services, Inc., 2005, Groundwater Monitoring Report, PG&E Oakland General Construction Yard, Oakland, California.

<p>SITE MAP Pacific Gas & Electric Company Oakland General Construction Yard 4930 Coliseum Way, Oakland, California</p>		
By: KLU	Date: 01/27/11	Project No. 13045.007.E
AMEC Geomatrix		Figure 2

Plot Date: 01/27/11 - 1:38pm, Plotted by: jmg/mul
 Drawing Path: S:\13045\13045\13045.007_E\basemap.dwg
 Job ID: 1207_S1R2010-101, Drawing Name: fg_02_SiteMap.dwg

File Original with DWR

Page 1 of 4

Owner's Well Number OW-8

Date Work Began 07/21/2014

Local Permit Agency Alameda County Public Works Agency

Permit Number W2014-0663

State of California

Well Completion Report

Refer to Instruction Pamphlet

No. **e0223495**

Date Work Ended 7/21/2014

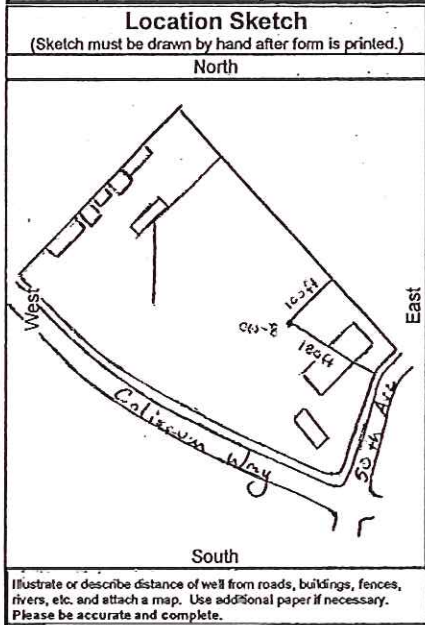
Permit Date 7/17/14

DWR Use Only - Do Not Fill In									
State Well Number/Site Number									
Latitude					Longitude				
APN/TRS/Other									

Geologic Log		
Orientation	Drilling Method	Drilling Fluid
<input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Depth from Surface	Feet	Description
0	1	Metal traffic box and upper PVC casing removed. Sealed with concrete from 6 inches bgs to surface.
1	18	Well was pressure grouted with neat cement. A tremie pipe was used to add neat cement grout to fill the well casing. Approximately 25 pounds per square inch of pressure was then applied to the casing for 5 minutes to promote the displacement of grout into the filter pack.
See boring log for more information		
Total Depth of Boring <u>18.4</u> Feet		
Total Depth of Completed Well <u>18.3</u> Feet		

Well Owner		
Name	<u>Pacific Gas and Electric Company</u>	
Mailing Address	<u>PO Box 770000</u>	
City	<u>San Francisco</u>	State <u>CA</u> Zip <u>94177</u>

Well Location		
Address	<u>4930 Coliseum Way</u>	
City	<u>Oakland</u>	County <u>Alameda</u>
Latitude	N Longitude W	
Datum	<u>WGS84</u>	Dec. Lat. <u>37.764890</u> Dec. Long. <u>-122.214815</u>
APN Book	<u>43</u>	Page <u>2293</u> Parcel <u>9-2</u>
Township	<u>2S</u>	Range <u>3W</u> Section <u>17</u>



Activity
<input type="radio"/> New Well <input type="radio"/> Modification/Repair <input type="radio"/> Deepen <input type="radio"/> Other _____ <input checked="" type="radio"/> Destroy <small>Describe procedures and materials under "GEOLOGIC LOG"</small>
Planned Uses
<input type="radio"/> Water Supply <input type="checkbox"/> Domestic <input type="checkbox"/> Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="radio"/> Cathodic Protection <input type="radio"/> Dewatering <input type="radio"/> Heat Exchange <input type="radio"/> Injection <input type="radio"/> Monitoring <input type="radio"/> Remediation <input type="radio"/> Sparging <input type="radio"/> Test Well <input type="radio"/> Vapor Extraction <input type="radio"/> Other _____

Water Level and Yield of Completed Well		
Depth to first water	_____ (Feet below surface)	
Depth to Static	_____	
Water Level	_____ (Feet)	Date Measured _____
Estimated Yield *	_____ (GPM)	Test Type _____
Test Length	_____ (Hours)	Total Drawdown _____ (Feet)
*May not be representative of a well's long term yield.		

Casings								Annular Material		
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size if Any	Depth from Surface	Fill	Description
Feet to Feet	(Inches)			(Inches)	(Inches)		(Inches)	Feet to Feet		

Attachments
<input checked="" type="checkbox"/> Geologic Log <input checked="" type="checkbox"/> Well Construction Diagram <input type="checkbox"/> Geophysical Log(s) <input type="checkbox"/> Soil/Water Chemical Analyses <input checked="" type="checkbox"/> Other <u>Site Map</u>
<small>Attach additional information, if it exists.</small>

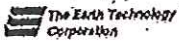
Certification Statement		
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief		
Name	<u>Penecore Drilling</u>	
Person, Firm or Corporation	<u>220 N. EAST ST.</u>	
Address	<u>Woodland</u>	<u>CA</u> <u>95776</u>
Signed	<u>[Signature]</u>	City State Zip
C-57 Licensed Water Well Contractor	Date Signed <u>8/20/14</u>	906899
		C-57 License Number

Borehole Log

ACFCWCD, 1993

Project Name: PG&E Oakland		Project Number: 690262.03	
Borehole Location: 100 ft west of east Prop. line 75' north or south Prop. line		Borehole No. OW-8	Sheet 1 of 1
Drilling Agency: HEW		Driller: Jasper Booker/Hike Caspy (helper)	
Drilling Equipment: CHE 55		Date Started: 0900 2/10/93	Total Depth (feet): 18'4"
Drilling Method: Hollow Stem Auger		Date Finished: 0925 2/10/93	Depth to Bedrock (feet):
Drilling Fluid: NA		Number of grab only Samples for logging	Depth to Water (feet): 11:30 7.71'
Completion Information: 2" PVC set bottom @ 18.2' screen (0.020); 8'-18' bentonite; 6'-7' sand (2/12); 7'-18' cement grout @ 0.5'-6'		Borehole Diameter (in): 8"	Elevation and Datum:
		Logged By: HP	
		Checked by:	Date:

Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B	PID (ppm) S/B	Graphic	USCS or Rock Type		
0										4" Asphalt over approx 10" lt gray base rock overlying about 10" brown base rock w/ sand, moist	
5									CL	SANDY SILT, dk yellowish brown (10YR3/4), moist, some gravel to 1"	
10									CL	SANDY CLAY (CL), very dk gray (10YR2/1) to black (2.5YR2/-), wet to saturated at 7', medium stiff to soft, fine grained sand, trace gravel	
15									SC	SANDY CLAY, dk brown (10YR 2/3), wet, stiff, coarse grained sand, some subangular gravel to 1/2"	
20									CH	CLAYEY SAND, dk yellowish brown (10YR4/4), saturated, medium dense, uncemented	
25										SILTY CLAY (CH), olive gray (5Y5/2), moist to wet, stiff, high plasticity	
30										Bottom at 18'4"	



Monitoring Well Construction Log - Flush Mount

Project Name: PG&E Oakland	Project Number: 690262.03	Date: 2/10/93
Well Observation/Monitoring	Well ID: OH-8	Sheet 1 of 1
Owner: Jasper Booker	Borehole Diameter (in): 8"	Total Depth 18'4"
Drilling Agency: HEW	Date Started: 2/10/93	Depth to Water (ft)
Drilling Equipment: CME-55	Date Finished: 2/10/93	Elevation and Datum
Drilling Method: Hollow Stem Auger	Logged by: H. Peterson	Checked by:
Drilling Fluid: NA	Number of Samples: 0	Date:

PROTECTIVE CO Diversified Well Products
 Model/Type: Cast-Iron cover w/ PVC sleeve
 Diameter: 8" ID/8 3/4" OD
 Depth BGS: 0" Weep Hole (Y) (U)

GUARD POSTS (Y) (U)
 Mat: Type:

SURFACE PAD
 Composition and Size: Concrete - 16" Diameter

RIBBON PIPE
 Type: SCH 40 PVC
 Diameter: 2"

Total Length (TOG to TOP): 8'
 Ventilated Cap (Y) (U)

GROUT
 Composition and Proportion: 2-94 lb sacks/13 gal
 N/A

Treated (Y) (U) 0.5' to 6'

Interval BGS: CENTRALIZERS
 Device(s): NA

SEAL 3/8" Bentonite pellets
 Type:

Source: Setup/Hydraton Time: 25 min Vol. Fluid Added: 3 gallons

Treated (Y) (U) 10:05 - 10:30

FILTER PACK
 Type: Lapis Lustrre 2/12
 Amt. Used: 3-100 lb. sacks

Treated (Y) (U) 7' to 18'4"
 Source: RMC Lone star

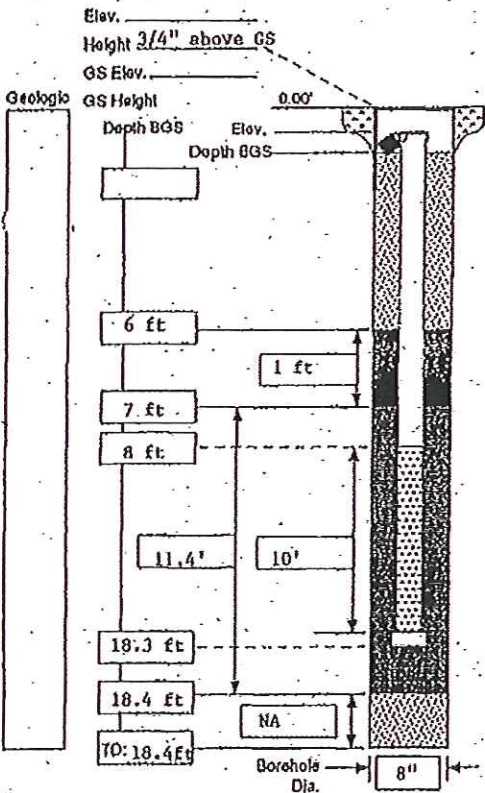
Or. Size Dist: SCREEN
 Type: SCH 40 PVC
 Diameter: 2"

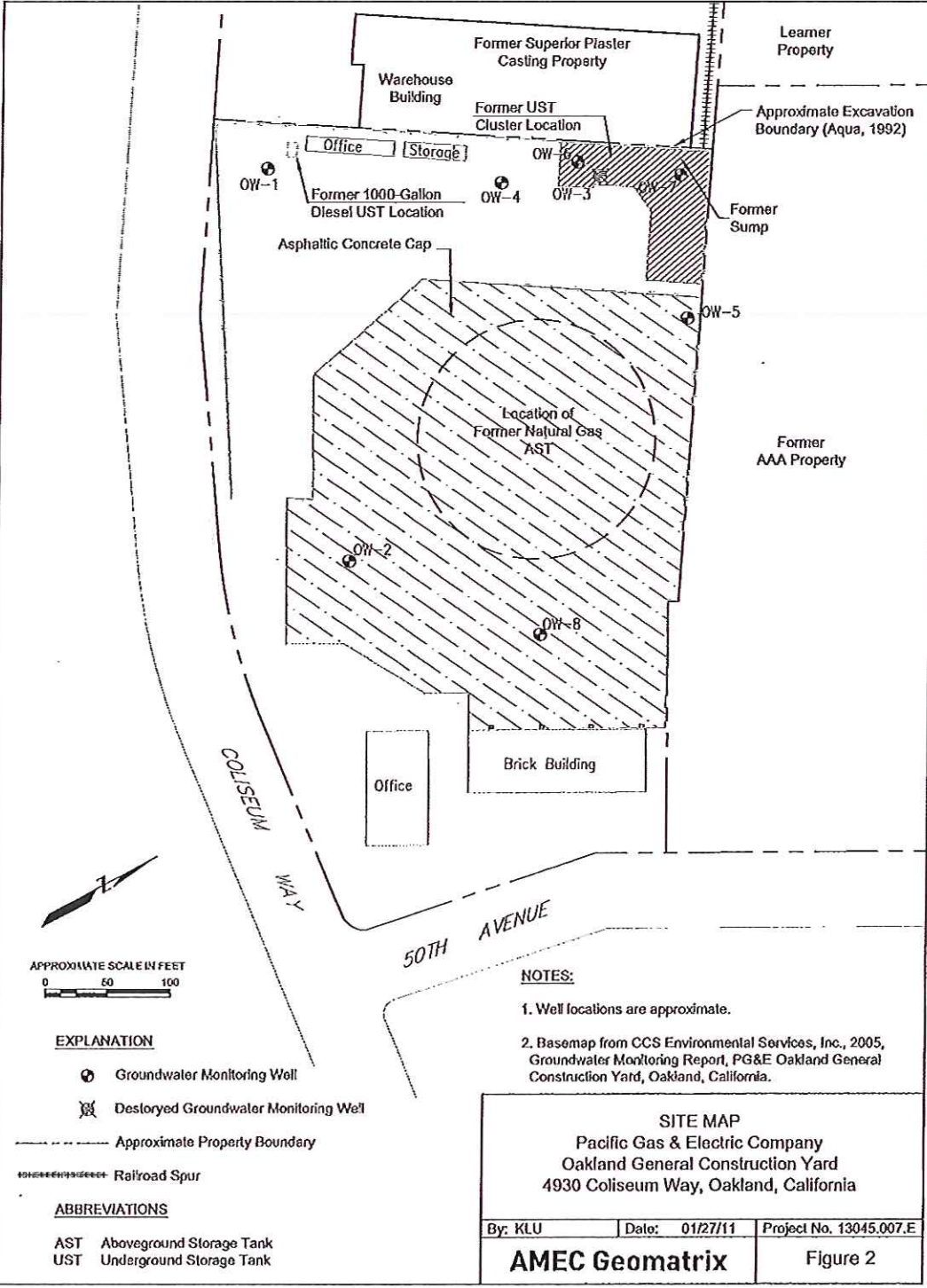
Slot Size and Type: 0.020 slot
 Interval BGS: 8' to 18'

WELL FOOT (Y) (U)
 Interval BGS: 18' to 18.3' Length: 3/4"

Bottom Cap (Y) (U)
 BACKFILL PLUG
 Material: NA

Setup/Hydraton Time: Form # 1025
 Treated (Y) (U) 2/15/91





Plot Date: 01/27/11 - 1:30pm, Plotted by: jmg/maul
 Drawing Path: S:\13045\13045.007.E\Task_08\10_1207_SITMAP.dwg, Drawing Name: fig_02_SITMAP.dwg