

RECEIVED

By Alameda County Environmental Health 1:58 pm, Oct 06, 2015

September 22, 2015

Mr. Keith Nowell
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Well Destruction Report
Site: 76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California
Fuel Leak Case No. RO0000229

Dear Mr. Nowell;

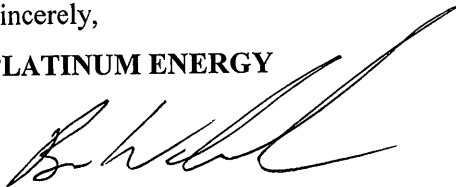
I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call:

Brian Whalen
Platinum Energy
29501 Canwood St., Suite, 200
Agoura Hills, CA 91301
Tel: (818) 206-5704
Fax: (818) 206-5721
bwhalen@platinum-energy.com

Sincerely,

PLATINUM ENERGY



BRIAN WHALEN

Attachment

WELL DESTRUCTION REPORT

*76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California*

*Alameda County Health Care Services Agency
Fuel Leak Case No. RO0000229*

*San Francisco Bay Regional Water Quality
Control Board
No. 01-1588*

GeoTracker Global ID No. T0600101463

Antea Group Project No. I40255325

September 22, 2015

Prepared for:
Mr. Keith Nowell
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502

Prepared by:
Antea®Group
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670
+1 800 477 7411

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Well Destruction Report

*76 Service Station No. 5325
3220 Lakeshore Avenue
Oakland, California
Antea Group Project No. I40255325*

1.0 INTRODUCTION

Antea Group is pleased to submit this Well Destruction Report for the site located at 3220 Lakeshore Avenue in Oakland, California (**Figures 1 and 2**). This report summarizes the destruction of six (6) monitoring wells and three (3) ozone sparge wells associated with the site.

2.0 WELL DESTRUCTION

The well destructions were performed as required for case closure. The Alameda County Health Care Services Agency letter authorizing well destruction is included as **Appendix A**. A summary of previous environmental investigations, remedial activities, and sensitive receptors are included as **Appendix B**.

2.1 Pre-Field Activities

Prior to beginning field operations, Antea Group obtained a well destruction permit from the Alameda County Public Works Agency and an encroachment permit from the City of Oakland for off-site monitoring well MW-6. These permits are included in **Appendix C**.

Antea Group prepared a site-specific Health and Safety Plan (HASP) in accordance with Title 8, Section 5192 of the California Code of Regulations. The HASP contained a list of emergency contacts, as well as a hospital route map to the nearest emergency facility.

Prior to well destruction, Underground Service Alert (USA) was notified, as required by law, and a private utility locator was employed to clear the boring locations for underground utilities.

2.2 Well Destruction Activities

On September 10 and 11, 2015, Gregg Drilling (Gregg), under supervision of an Antea Group field geologist, destroyed all nine (9) wells associated with the site: monitoring wells U-1 through U-6, and ozone sparge wells C-1 through C-3 (**Figure 2**).

Before commencing well destruction activities the depth to water and total depth of each well was measured. This data along with well construction details is included in **Table 1**.

Each well was destroyed by the pressure grout method. Each well casing was filled with grout until the grout level no longer dropped. Then a pressure of 25 pounds per square inch (psi) was applied to the casing for a duration of approximately 5 minutes. Subsequently, the well box was removed. Each well destruction was completed at the surface with concrete dyed to match the surrounding surface.

The completed Department of Water Resources (DWR) Well Completion Report forms are included as **Appendix D**.

2.3 Disposal of Derived Waste

As all wells were pressure grouted, the only waste generated was construction debris consisting of concrete, rebar, and plastic. No analytical analysis or manifests are required for disposal of this type of waste. The driller removed this debris for off-site disposal.

3.0 CONCLUSIONS

The previously discussed monitoring and ozone sparge well destruction activities conclude Antea Group's environmental work at the subject site.

5.0 LIMITATIONS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:



For: _____

Jonathan Fillingame
Staff Professional

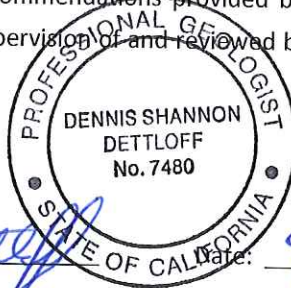
Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Date: 9/22/15

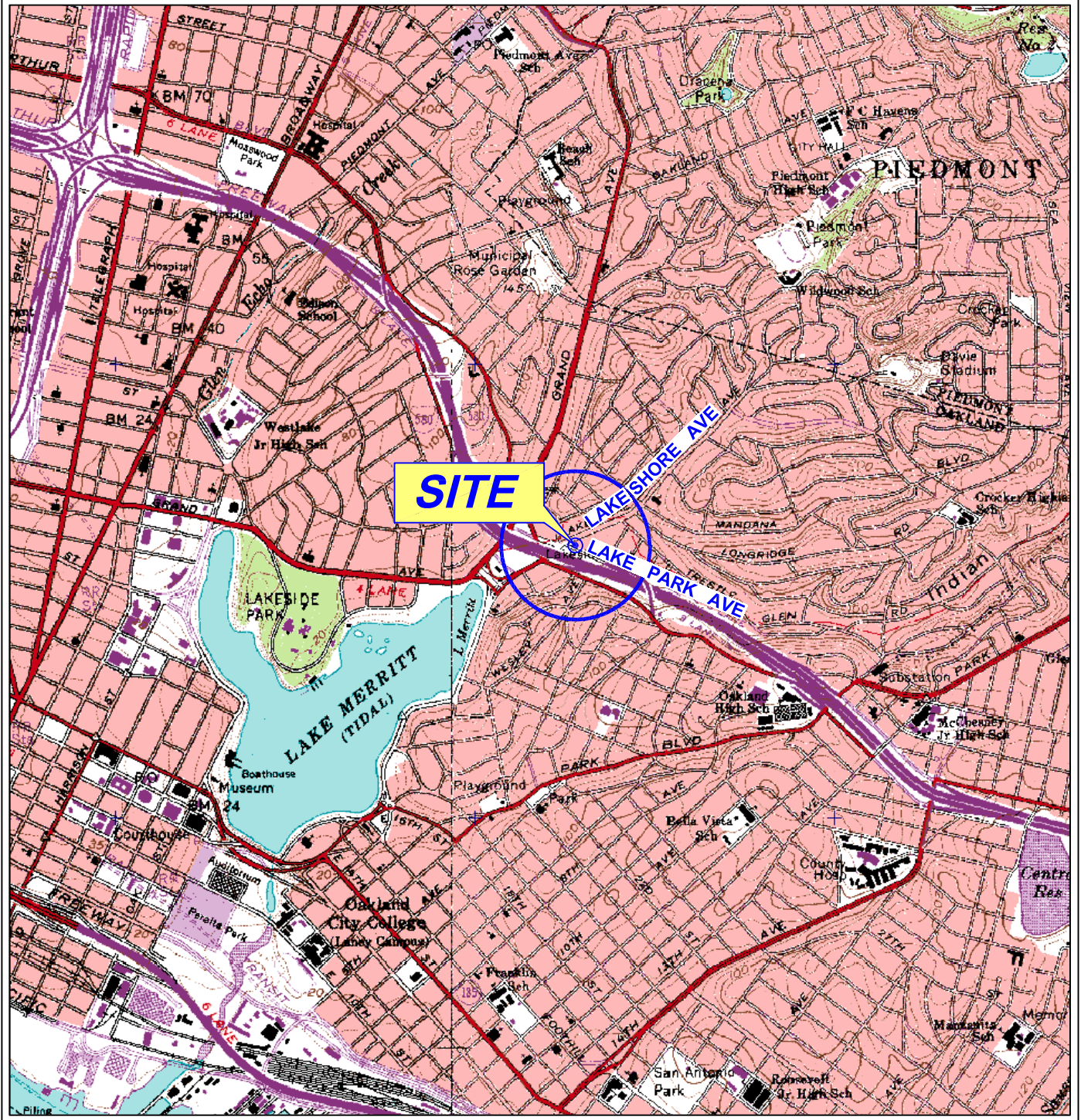
Dennis S. Dettloff, P.G.
Senior Project Manager
California Registered Professional Geologist No. 7480



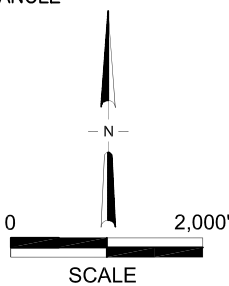
cc: Electronic copy uploaded to GeoTracker

Figures

- Figure 1 Site Location Map
- Figure 2 Site Plan



GENERAL NOTES:
 BASE MAP FROM 3-D TOPO QUADS
 OAKLAND WEST & OAKLAND EAST, CA. QUADRANGLE
 7.5 MINUTE TOPOGRAPHIC MAP

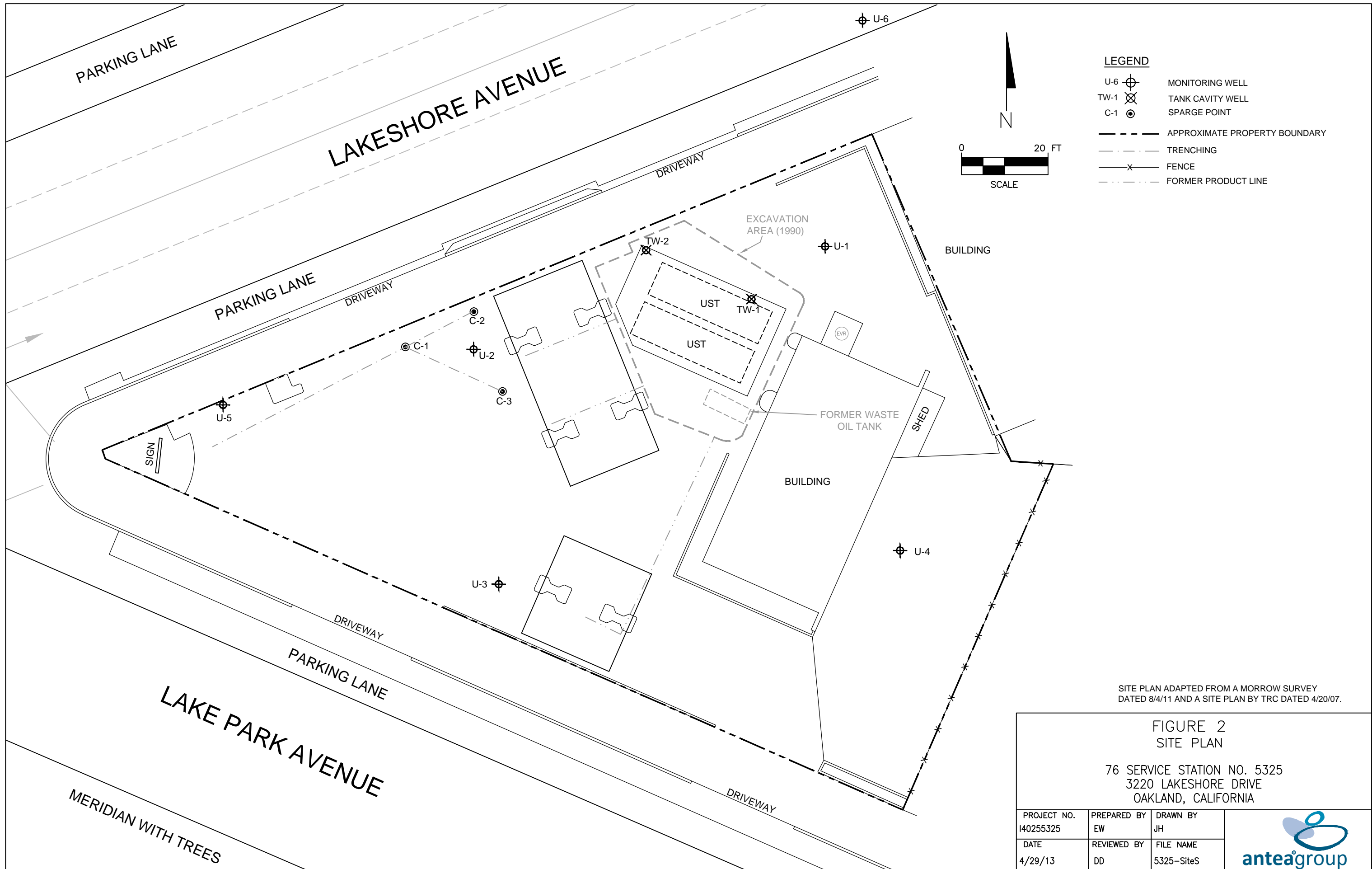


**FIGURE 1
 SITE LOCATION MAP**




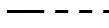



76 SERVICE STATION NO. 5325
 3220 LAKESHORE AVENUE
 OAKLAND, CALIFORNIA

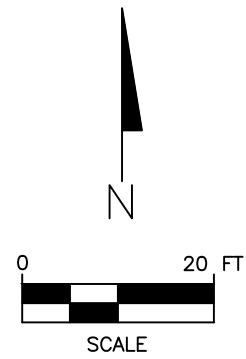
PROJECT NO. 140255325		DRAWN BY JH	
FILE NO. 5325-SLM		PREPARED BY EW	
DATE 28 JAN 11	REV. 2	REVIEWED BY	





LEGEND


- U-6  MONITORING WELL
- TW-1  TANK CAVITY WELL
- C-1  SPARGE POINT
-  APPROXIMATE PROPERTY BOUNDARY
-  TRENCHING
-  FENCE
-  FORMER PRODUCT LINE



SITE PLAN ADAPTED FROM A MORROW SURVEY DATED 8/4/11 AND A SITE PLAN BY TRC DATED 4/20/07.

FIGURE 2
SITE PLAN

76 SERVICE STATION NO. 5325
3220 LAKESHORE DRIVE
OAKLAND, CALIFORNIA

PROJECT NO. 140255325	PREPARED BY EW	DRAWN BY JH	
DATE 4/29/13	REVIEWED BY DD	FILE NAME 5325-SiteS	

Table

Table 1 Well Destruction Details

TABLE 1
Well Destruction Details
76 Service Station No. 5325
3220 Lakeshore Drive
Oakland, California

Well I.D.	Construction Date	Elevation (TOC feet above MSL)	Boring Depth (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Casing Material	Slot Size (inches)	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)	Bentonite Seal Interval (feet bgs)	Cement Seal Interval (feet bgs)	Destruction Date	Depth to Water (ft)	Total Depth	Comments
U-1	09/24/90	14.24	27	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4, 20-23	1.5-3				
U-2	09/24/90	13.45	21.5	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4	1.5-3	9/10/15	8.67	13.23	
U-3	09/24/90	16.37	21.5	8	3	Sch 40 PVC	0.020	5-20	4-20	3-4	1.5-3	9/10/15	7.53	19.79	
U-4	06/02/94	16.55	25	10	4	Sch 40 PVC	0.020	5-20	4-20	3.5-4, 20-25	1.5-3.5	9/10/15	10.56	19.37	
U-5	06/02/94	12.77	22	10	4	Sch 40 PVC	0.020	5-20	4-20	3.5-4, 20-21.5	1.5-3.5	9/11/15	9.45	19.54	
U-6	06/02/94	12.88	25	8	2	Sch 40 PVC	0.020	4.5-20	4-20	3.5-4, 20-24.5	1.5-3.5	9/11/15	7.08	20.02	
C-1	04/12/06	--	15	8	2	Sch 80 PVC	0.010	5-24	4-24	3.5-4, 24-24.5	1.5-4	9/10/15	7.52	23.70	
C-2	04/12/06	--	17	8	2	Sch 80 PVC	0.010	9.5-12	8-5-15	6.5-8.5	1-6.5	9/11/15	7.41	11.78	
C-3	04/12/06	--	17	8	2	Sch 80 PVC	0.010	11.5-14	10.5-17	8.5-10.5	1-8.5	9/10/15	6.92	14.04	
							0.010	14.5-17	13.5-17	11.5-13.5	1-8.5	9/10/15	8.61	16.82	

Notes:

bgs = below ground surface

TOC = top of casing

MSL = mean sea level

-- = Not applicable

Elevations are in US survey feet, Vertical Datum is NAD 88

*Well Destruction Report
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325*



Appendix A

Alameda County Health Care Services Agency Well Destruction Authorization



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

August 3, 2015

Western Dealer Holding Company LLC
DBA Platinum Energy
30343 Canwood St., Ste 200
Agoura Hills, CA 91301-4329
Attn.: Shane Nolan
(Sent via E-mail to: snolan@platinum-energy.net)

Phillips 66
76 Broadway
Sacramento, CA 95818
Attn.: Ed Ralston
(Sent via E-mail to: Ed.C.Ralston@p66.com)

Charanjeer Kaur and Kulwant Minhas
PO Box 3545
Yuba City, CA 95992-3545

Sam and Wendy Ng
3220 Lakeshore Avenue
Oakland, CA 94610

Subject: Well Destruction Authorization, Fuel Leak Case No. RO0000229 and Geotracker Global ID T0600101463, UNOCAL #5325, 3220 Lakeshore Avenue, Oakland CA 94610

Dear Responsible Parties:

The public comment period for the subject site ended on July 27, 2015. No comments were received by Alameda County Environmental Health (ACEH).

You are free to proceed with the destruction of all wells associated with the site (groundwater, vapor, etc). Please contact the Alameda County Public Works Agency to obtain well destruction permits. Following the well destruction, please provide ACEH with a well destruction report according to the schedule outlined below. The well destruction report should document site activities, provide well destruction permit documentation, and documentation indicating that any remaining investigation, remediation, and well destruction derived waste have been removed from the site. The State Water Resources Control Board's (SWRCBs) Well Destruction and Waste Removal Requirements fact sheet is included as an attachment.

TECHNICAL REPORT REQUEST

Please submit reports to Alameda County Environmental Health (Attention: Keith Nowell), and upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **September 18, 2015 – Well Destruction Report** - File to be named RO229_WELL_DCM_R_yyyy-mm-dd

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Responsible Parties
RO0000229
August 3, 2015, Page 2

Should you have any questions, please contact me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org.

If your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,



Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda
County, ou=Department of
Environmental Health,
email=keith.nowell@acgov.org, c=US
Date: 2015.08.03 11:57:27 -0700'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements/Obligations and
Electronic Report Upload (ftp) Instructions

Attachment 2 – The State Water Resources Control Board's Well Destruction and Waste
Removal Requirements Fact Sheet

cc: Dennis Dettloff, Antea Group, 11050 White Rock Rd., Suite 110 Rancho Cordova, CA 95670
(Sent via E-mail to: ddettloff@anteagroup.com)

Mark Arniola, Environmental Program Supervisor, Oakland Public Works, 250 Frank H. Ogawa
Plaza, Ste. 4314, Oakland, CA94612-2032 (Sent via E-mail to: marniola@oaklandnet.com)

James Yoo, Alameda Co. Dept. of Public Works, Water Resources Section, 399 Elmhurst Street,
Hayward, CA 94544 (Sent via E-mail to: jamesy@acpwa.org)

Susan Hugo, ACEH (Sent via E-mail to: susan.hugo@acgov.org)

Dilan Roe, ACEH, (sent via e-mail to dilan.roe@acgov.org)
Keith Nowell, ACEH, (sent via e-mail keith.nowell@acgov.org)
Geotracker, Electronic File

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10, 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). 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, 6835, 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, later 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 SLIC)	REVISION DATE: May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) 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 deh.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 <ftp://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 deh.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.

ATTACHMENT 2



Fact Sheet

Well Destruction and Waste Removal Requirements Prior to Underground Storage Tank Case Closure

Background: Proper destruction of wells helps to protect groundwater from potential threats and is a critical component of the Underground Storage Tank (UST) case closure process. The Low-Threat Underground Storage Tank (UST) Case Closure Policy (Policy) mandates that monitoring wells be properly destroyed prior to UST case closure, unless they will be kept and maintained in accordance with applicable local and state requirements. The Policy also mandates that all investigation and remediation-derived waste materials be removed prior to case closure. As of May 15, 2015, there were a total of 836 "Open-Eligible for Closure" cases throughout California, for which remaining wells and wastes served as impediments to closure.

Information for Responsible Parties and

Site Owners: If you received a letter from the State Water Resources Control Board (State Water Board), Regional Water Quality Control Board, or a local agency directing well destruction and waste removal, you must take action before your UST case can be closed. A uniform closure letter (UCL) will not be issued for your case until the wastes are removed and the wells are either destroyed or approved for continued maintenance by the regulatory agency overseeing your UST case. Your local well permitting agency may require ongoing monitoring of wells even though the regulatory agency is not requiring it, so additional costs may be incurred. A list of open cases with directives to destroy wells and remove wastes can be viewed on the public GeoTracker webpage at: http://geotracker.waterboards.ca.gov/ptcp_destruction_report.asp.

Note: The State Water Board has the authority to administratively impose civil penalties of up to \$10,000 per day per UST on responsible parties and site owners that fail to comply with the requirements of UST case closure order. **Do not let penalties be imposed on you!**

The contractor that helped you with corrective actions at your site can provide more information about the well destruction and waste removal process. If you do not currently have a contractor, you can contact the regulatory agency that is responsible for oversight of your UST case and ask if they have a list of contractors in the area. Your regulatory agency can also let you know if your contractor is required to submit a work plan for approval before well destruction and waste removal begins. Once the work is complete, submit confirmation documentation to the regulatory agency overseeing your UST case. After the well and waste

Important: Check the current standing of any contractor with the California Contractors State License Board. You can do this at the following location on the web: <https://www2.cslb.ca.gov/OnlineServices/CheckLicense/CheckLicense.aspx>

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

STATE WATER RESOURCES CONTROL BOARD

1001 I Street, Sacramento, CA 95814 • Mailing Address: P.O. Box 100, Sacramento, CA 95812-0100 • www.waterboards.ca.gov





Fact Sheet

removal has been completed, approved by your regulatory agency, and communicated to the State Water Board, a UCL will be issued and uploaded to GeoTracker.

If you have an eligible claim with the UST Cleanup Fund, the cost of well destruction is considered corrective action and reasonable and necessary costs are typically reimbursable. Monitoring of wells after you have been informed that the wells should be destroyed is not normally considered to be corrective action and may not be eligible for reimbursement. Additional information can be obtained on the State Water Board UST Cleanup Fund (Fund) website at: http://www.waterboards.ca.gov/water_issues/programs/ustcf/. You may also contact the Fund staff by email: ustcleanupfund@waterboards.ca.gov, message phone line: 1-800-813-Fund (3863), or fax: 916-341-5806.

Information for Consultants/Contractors/Drillers: A list of open cases with directives to destroy wells can be viewed on the public GeoTracker webpage at: http://geotracker.waterboards.ca.gov/ptcp_destruction_report.asp. Seek approval with regulatory agencies having jurisdiction before performing any well destruction work. Encroachment permits and/or access agreements may also be necessary. A list of local well-permitting agencies can be found at: <http://water.ca.gov/groundwater/wells/permitting.cfm>

Reference: *Plan for Implementation of Low-Threat UST Case Closure Policy and Additional Program Improvements*
(http://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2012/110612_6_final_ltcp%20imp%20plan.pdf).

(This fact sheet was last updated May 21, 2015.)

*Well Destruction Report
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325*



Appendix B

Summary of Previous Environmental Investigations

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

May 1990 Three exploratory soil borings were advanced adjacent to the UST complex to depths ranging from 10 to 12.5 feet below ground surface (bgs). Soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and xylenes (BTEX). The samples contained TPH-G concentrations ranging from 2 to 7,500 parts per million (ppm) and benzene concentrations ranging from 0.14 to 13 ppm.

June 1990 Two 10,000-gallon gasoline USTs, one 550-gallon waste oil UST, and related product dispensers were replaced. Soil samples from the UST excavation sidewalls and bottom and product line trenches were reported to contain TPH-G and benzene at concentrations ranging from 12 to 2,800 ppm and 0.008 to 11 ppm, respectively. Approximately 250 cubic yards of soil and backfill material were aerated onsite to reduce concentrations to below 100 ppm TPH-G, then transported to an appropriate soil disposal facility. Groundwater was encountered at approximately 7.5 feet bgs.

September 1990 Monitoring wells U-1, U-2, and U-3 were installed. TPH-G was detected in soil samples collected from the capillary fringe in well borings U-1 and U-2 at levels of 110 and 480 ppm, respectively. Benzene was detected in the soil sample from well boring U-1 at a level of 4.5 ppm. Petroleum hydrocarbons were not detected in soil or groundwater samples from U-3. Groundwater samples collected from wells U-1 and U-2 were reported to contain 690 and 38 parts per billion (ppb) TPH-G and 780 and 27 ppb benzene, respectively.

June 1990 Monitoring wells U-4, U-5, and U-6 were installed. TPH-G and benzene were detected in the capillary fringe soil sample collected from boring U-5 at levels of 400 ppm and 1.9 ppm, respectively. TPH-G and benzene were not detected in soil samples collected from borings U-4 and U-6. Groundwater levels stabilized at depths between 8.8 and 9.2 feet bgs.

November 1996 One 550-gallon waste oil UST was removed and the product lines and dispensers were replaced. A soil sample collected from the sidewall of the waste oil UST excavation contained 1.5 ppm total petroleum hydrocarbons as diesel (TPH-D) and 78 ppm total oil and grease (TOG). TPH-G, benzene, methyl tertiary butyl ether (MTBE), halogenated volatile organic compounds (HVOCs), and semi-volatile organic compounds (SVOCs) were not detected. Product line trench excavation and over excavation samples were reported to contain petroleum hydrocarbon levels ranging from non-detect to 880 ppm of TPH-G, non-detect to 3.6 ppm of benzene, and non-detect to 23 ppm of MTBE. Approximately 276 tons of excavated soil was transported to an appropriate disposal facility.

June 1997 Two exploratory borings (U-D and U-E) and one UST observation well were installed. U-D was advanced offsite on Lakeshore Avenue. TPH-G, BTEX, and MTBE were detected in one or all of the soil samples collected at the capillary fringe from the soil borings. TPH-G and MTBE were detected at a maximum of 450 ppm and 1.1 ppm, respectively, in U-D.

October 2003 Site environmental consulting responsibilities were transferred to TRC.



April 2006 Three ozone sparge wells (C-1 through C-3) were installed by TRC in the vicinity of U-2 for the purpose of an ozone pilot study. Total purgeable petroleum hydrocarbons (TPPH) were detected at a maximum of 4,600 milligrams per kilograms (mg/kg) in the five feet below grade (fbg) soil sample collected from C-1.

June through August 2006 A 3-month ozone sparge event was completed on sparge points C-1 through C-3 located in the vicinity of Site well U-2 using a mobile ozone sparge treatment system.

October 2007 Site environmental consulting responsibilities were transferred to Delta Consultants.

January 2011 Delta Consultants rebranded to Antea Group.

September 2015 The six (6) monitoring wells (U-1 through U-6) and three (3) ozone sparge wells (C-1 through C-3) were destroyed by pressure grout in preparation for site closure.

REMEDIATION

June through August 2006 A 3-month ozone sparge event was completed on sparge points C-1 through C-3 located in the vicinity of Site well U-2 using a mobile ozone sparge treatment system.

SENSITIVE RECEPTORS SURVEY

Lake Merritt is located approximately 0.3 miles down gradient. No domestic water wells are located within a one mile distance of the site.

Current Consultant: Antea Group

*Well Destruction Report
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325*



Appendix C

Permits

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
— Alameda County —

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

Application Approved on: 08/18/2015 By jamesy

Permit Numbers: W2015-0779 to W2015-0785
Permits Valid from 09/08/2015 to 09/09/2015

Application Id: 1439336636034
Site Location: 3220 Lakeshore Avenue, Oakland, CA
Project Start Date: 09/08/2015
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Oakland

Completion Date: 09/09/2015

Applicant: Antea Group - Ed Weyrens
11050 White Rod #110, Rancho Cordova, CA 95670

Phone: 916-503-1277

Property Owner: Sam, Wendy Ng
3220 Lakeshore Ave, Oakland, CA 94610

Phone: --

Client: Phillips 66 Ed Ralston
76 Broadway, Sacramento, CA 95818

Phone: 916-558-7633

Receipt Number: WR2015-0407	Total Due:	\$2647.00
Payer Name : Antea Group	Total Amount Paid:	\$2647.00
	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 6 Wells

Driller: Gregg - Lic #: 485165 - Method: other

Work Total: \$2382.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0779	08/18/2015	12/07/2015	U1	8.00 in.	3.00 in.	0.00 ft	27.00 ft	1S/3W25R	No Records	No Records
W2015-0780	08/18/2015	12/07/2015	U2	8.00 in.	3.00 in.	0.00 ft	21.50 ft	1S/3W25R	No Records	No Records
W2015-0781	08/18/2015	12/07/2015	U3	8.00 in.	4.00 in.	0.00 ft	21.50 ft	1S/3W25R	No Records	No Records
W2015-0782	08/18/2015	12/07/2015	U4	10.00 in.	4.00 in.	0.00 ft	25.00 ft	1S/3W25R	94124	412522
W2015-0783	08/18/2015	12/07/2015	U5	10.00 in.	2.00 in.	0.00 ft	22.00 ft	1S/3W25R	94124	412523
W2015-0784	08/18/2015	12/07/2015	U6	8.00 in.	2.00 in.	0.00 ft	25.00 ft	1S/3W25R	94124	412524

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

Alameda County Public Works Agency - Water Resources Well Permit

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 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 10 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. 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.
9. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
10. Remove the Christy box or similar structure. Destroy well U-6 by overdrilling the upper 5ft. below ground surface (bgs) and then tremie grouting with neat cement. 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 by approved encroachment permit concrete material and asphalt material by Caltrans Spec or County/City Codes.
11. Remove the Christy box or similar structure. Destroy all other wells 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.

Remediation Well Destruction-Injection - 3 Wells

Driller: Gregg - Lic #: 485165 - Method: other

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-0785	08/18/2015	12/07/2015	C1	8.00 in.	2.00 in.	0.00 ft	15.00 ft	1S/3W25R	W2006-0222	0925993
W2015-	08/18/2015	12/07/2015	C2	8.00 in.	2.00 in.	0.00 ft	17.00 ft	1S/3W25R	W2006-	0925994

Alameda County Public Works Agency - Water Resources Well Permit

0785

0223

W2015-
0785

08/18/2015 12/07/2015 C3

8.00 in.

2.00 in.

0.00 ft

17.00 ft

1S/3W25R

W2006-
0224

0925995

Specific Work Permit Conditions

1. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 100 days after expiration or final.

JOB SITE



CITY OF OAKLAND



250 FRANK H. OGAWA PLAZA ▪ 2ND FLOOR ▪ OAKLAND, CA 94612

Planning and Building Department
www.oaklandnet.com

PH: 510-238-3891
FAX: 510-238-2263
TDD: 510-238-3254

Permit No: X1501918 OPW - Excavation

Filed Date: 8/24/2015

Job Site: 3200 LAKESHORE AVE

Schedule Inspection by calling: 510-238-3651

Parcel No: 023 042401801

For SL; X; and CGS permits see **SPECIAL NOTE** below

District:

Project Description: Abandon monitoring well U-6 on Lakeshore Ave. Alameda County documentation provided.
If working within 25' feet of a monument you must comply with State Law 8771, contact the Inspector prior to starting excavation: minimum \$5,800.00 fine for non-compliance.
Permit valid 90 days.
Contact: E Weyrens, 916 503-1277
Separate Obstruction permit required to reserve/block parking lane. One space NO FEE w/ Excavation permit.

Call PWA INSPECTION prior to start: 510-238-3651, 4th FLOOR.
Re: Encroach into the public right of way with 2 monitoring well s. recorded 4/14/94

Related Permits: ENMI96007

	<u>Name</u>	<u>Applicant</u>	<u>Address</u>	<u>Phone</u>	<u>License #</u>
Owner:	UNION OIL COMPANY OF AMERICA			1111111	
Contractor-Employee:	GREGG DRILLING & TESTING INC	X	2726 WALNUT AVENUE SIGNAL HILL, CA	(562) 427-6899	485165

PERMIT DETAILS: Building/Public Infrastructure/Excavation/NA

General Information

Excavation Type: Private Party
Date Street Last Resurfaced:
Worker's Compensation Company Name:
Worker's Compensation Policy #:

Special Paving Detail Required:
Tree Removal Involved:
Holiday Restriction (Nov 1 - Jan 1):
Limited Operation Area (7AM-9AM) And (4PM-6PM):

Key Dates

Approximate Start Date:
Approximate End Date:

TOTAL FEES TO BE PAID AT FILING: \$434.91					
Application Fee	\$70.00	Excavation - Private Party Type	\$309.00	Records Management Fee	\$36.01
Technology Enhancement Fee	\$19.90				

Plans Checked By _____ Date _____ Permit Issued By Date 8.24
Finalized By _____ Date _____

SPECIAL NOTE

- For SL; X; and CGS permits Call PWA INSPECTION prior to start: 510-238-3651 or visit 4th FLOOR.
- SL and X permits valid 90 days; CGS permits valid 30 days

Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.



Permit No: X1501918

Parcel No: 023 042401801

Job Site: 3200 LAKESHORE AVE

Page 2 of 2

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

CONSTRUCTION LENDING AGENCY DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 8172, Civil Code).

Lender's Name _____

Branch Designation _____

Lender's Address _____

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

HAZARDOUS MATERIALS DECLARATION

I hereby affirm that the Intended occupancy WILL WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted. I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

Name _____

Signature _____

Contractor, or Contractor's Agent

Date

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.

*Well Destruction Report
76 Service Station No. 5325
Oakland, CA
Antea Group Project No. I40255325*



Appendix D

DWR Well Completion Report Forms

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

**STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)**

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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CONFIDENTIAL

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(WELL LOGS)

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