



76 Broadway  
Sacramento, California 95818

January 13, 2011

Ms. Barbara Jakub  
Alameda County Health Agency  
1131 Harbor Bay Parkway  
Alameda, California 94502

Re: **Monitoring Well Abandonment Report**

76 Service Station No. 5430  
1935 Washington Avenue  
San Leandro, California

Dear Ms. Jakub:

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 contact me at (916) 558-7612.

Sincerely,

A handwritten signature in black ink that reads "Bill Borgh". The signature is written in a cursive, slightly slanted style.

Bill Borgh  
Site Manager – Risk Management and Remediation

Attachment



anteagroup

Antea Group  
11050 White Rock Road, Suite 110  
Rancho Cordova, California 95670  
www.anteagroup.com

RECEIVED

11:25 am, Jan 20, 2011

Alameda County  
Environmental Health

January 13, 2011

Ms. Barbara Jakub  
Alameda County Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California

RE: **MONITORING WELL ABANDONMENT REPORT**  
76 Service Station No. 5430  
1935 Washington Avenue  
San Leandro, CA

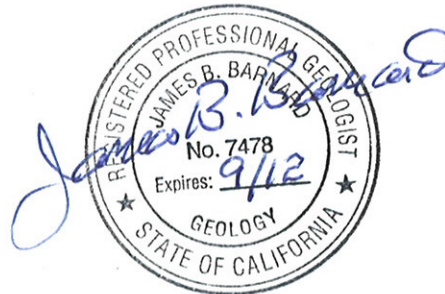
Dear Ms. Jakub:

**Due to global rebranding, as of January 5, 2011 Delta Consultants has become Antea Group. Any reports submitted prior to this date will still be referenced as Delta reports.**

This report has been prepared by Antea Group (Antea) on behalf of ConocoPhillips Company (COP) for the above referenced site (**Figure 1**). Field activities were conducted in accordance with the Alameda County Environmental Health (ACEH) directive letter to COP, dated June 23, 2010 (**Appendix A**)

Sincerely,  
ANTEA GROUP

James B. Barnard  
Project Manager



Enclosure

Cc: Mr. Ted Moise – COP (electronic copy only)

MONITORING WELL ABANDONMENT REPORT  
76 Service Station No. 5430  
1935 Washington Ave  
San Leandro, CA

January 13, 2010

Prepared for

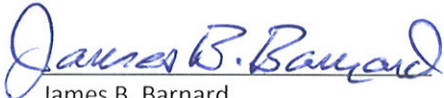
ConocoPhillips  
76 Broadway  
Sacramento, California

The material and data in this report were prepared under the supervision and direction of the undersigned.

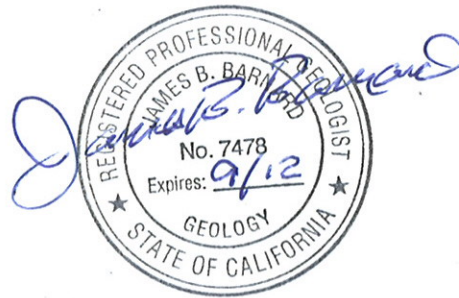
ANTEA GROUP



Alan Buehler  
Staff Geologist



James B. Barnard  
Project Manager  
California Registered Professional Geologist No. 7478



## **1.0 INTRODUCTION**

On behalf of COP, Antea has prepared this report for the 76 Service Station No. 5430 located at 1935 Washington Ave, San Leandro, California (**Figure 1**).

The purpose of this report is to provide a summary of the well abandonment activities performed.

## **2.0 SITE BACKGROUND**

The Site has been an active service station since 1965. Unocal files indicate a product line leak occurred in June of 1976 and that one of the original underground gasoline tanks (USTs) failed a precision test in October 1981. In December 1981, the two original steel gasoline USTs were replaced with two fiberglass USTs.

### **2.1 PREVIOUS ENVIRONMENTAL WORK**

In August, 1993 five exploratory soil borings (U-A through U-E) were advanced and three on-site groundwater monitoring wells (U-1 through U-3) were installed. This investigation is documented in a *Soil and Groundwater Investigation Report* prepared by Pacific Environmental Group (PEG), dated December 2, 1993.

In February, 1995 four additional monitoring wells were installed. Three monitoring wells were installed on-site (U-4 through U-6) and one was installed off-site (U-7). This installation is documented in a *Soil and Groundwater Investigation Report* prepared by PEG, dated June 21, 1995.

In July, 1997 three direct-push borings were advanced on the property to the south of the 76 Station. The results of this investigation are documented in a *Soil and Groundwater Investigation* report prepared by PEG dated September 11, 1997. Based on the findings of that investigation, the southern extent of hydrocarbon impact to groundwater was considered assessed.

In July and August 1998 the product dispensers and associated underground product piping were replaced. Additionally, the waste-oil UST was replaced with an above-ground waste oil storage tank. A total of 50 cubic yards of soil was over-excavated and removed from the site.

In September 2005, Delta became the new consultant for the site.

In February 2007, Delta requested Morrow Surveying survey the site and based on the survey data obtained from Mission Engineers, Inc. the location of missing monitoring well U-5. Subsequent to this Delta returned to the site using a metal detector attempted to locate monitoring well U-5. This search for monitoring well was unsuccessful at the monitoring well was not located.

In June 2007, TRC excavated the an area approximately 2 feet wide by 2 feet long by 2 feet deep where monitoring well U-5 was surveyed by Morrow Surveying. TRC was unable to locate the monitoring well during this excavation work.

### **2.2 SENSITIVE RECEPTOR SURVEY**

In May 1998, a well search was conducted by PEG reported three private domestic wells, nine irrigation wells, and twelve monitoring wells within a one-half mile radius of the site. The results of this well search are documented in an *Offsite Research and Sensitive Receptor Survey* prepared by PEG dated June 10, 1998.

In August 2006, Delta submitted a Public Health Questionnaire presenting specific queries regarding the presence of sensitive was mailed to property owners within 1,000 feet of the site. Based on the data obtained by the returned

questionnaires no drinking water supply wells are present on any of the respondent properties. Three properties have sumps used for irrigation purposes and a basement is present on one property.

As the plume is assessed and stable within on-site boundaries there appears to be no risk to any of these potential receptors due to gasoline in soil/groundwater at the site.

Delta also reviewed the public records of the Department of Water Resources (DWR) to prepare a list of potential parcel numbers, property owner's names, and property addresses of potential receptors within a one-mile radius of the site. Questionnaires were mailed to six addresses on June 1, 2006. Delta did not receive responses to this mailing.

Based on the United States Geological Survey Topographic Map for this area (San Leandro quadrangle, 1967), the nearest surface water body is San Leandro Creek located approximately 3,000 feet northwest of the site.

Delta personnel searched for nearby schools, daycare centers, and hospitals within a 1,000-foot radius of the site. No hospitals, daycare centers or schools were identified.

### **3.0 SCOPE OF WORK**

#### **2.1 PERMITTING, UTILITY NOTIFICATION, AND BOREHOLE CLEARANCE**

Prior to beginning field operations Antea prepared a Health and Safety Plan in accordance with state and federal requirements. Appropriate monitoring well destruction permits were obtained from Alameda County Public Works Agency (ACPWA). An encroachment permit pertaining to the abandonment of U-7 was obtained from the City of San Leandro. Copies of the permits are presented as **Appendix B**.

Prior to field activities, Underground Service Alert (USA) was notified as required and a private utility locating service visited the site to clear the monitoring well locations for underground utilities.

In an effort to reduce the risk of damage to underground utilities and/or field personnel, all drilling locations were pre-cleared to five feet below ground surface (bgs) using air-knife technology.

A site specific Health and Safety Plan was prepared for the site.

#### **2.2 MONITORING WELL ABANDONMENT ACTIVITIES**

The below detailed activities were performed under the directive of ACEH, detailed in a letter to COP date June 23, 2010.

On October 13 through October 15, 2010, Antea supervised the abandonment of onsite monitoring wells U-1, U-2, U-3, U-4, and U-6, as well as offsite monitoring well U-7, located in Washington Avenue. The monitoring well locations are shown on **Figure 2**. The wells were abandoned by Gregg Drilling and Testing, Inc. (Gregg), under supervision of Antea field geologists.

Abandonment of monitoring well U-5 has not been performed. The well cannot be located. It appears as though the well was paved over during station improvements. Several attempts to locate the well have been unsuccessful. Efforts to locate the well using utility locating services and ground penetrating radar were unsuccessful. TRC performed shallow excavation activities in the area of MW-5, but were unable to locate the well head or well box.

Prior to abandonment, all wells were measured for total depth and depth to water. All wells were abandoned by first removing the existing surface concrete and well box. Each well was abandoned by method of pressure grout. Under inspection by ACPWA, grout was applied into the casing of each well to the surface, and then placed under a pressure of 25 pounds per square inch (psi) for a duration of 5 minutes. Each hole, except U-7, was then finished at the surface with

concrete dyed to match existing surface conditions. As required by the encroachment permit, U-7 was finished at the surface with hot asphalt patch under the supervision of a City of San Leandro inspector. A table of well abandonment parameters is provided below.

Well ID	Installed Total Depth (ft)	Measured Total Depth (ft)	Depth to Water (ft)
U-1	40	39.4	32.3
U-2	40	39.2	31.1
U-3	40	38.5	31.0
U-4	40	38.8	31.0
U-6	40	40.2	31.3
U-7	40	37.6	30.7

Initially, wells U-7 and U-3 were intended to be overdrilled, due to the difference in the measured depth to the installed depth. This indicates silting in the well. However, both of these wells were pressure grouted, as approved by ACPWA. U-7 was approximately one foot from a street water main at approximately 20-inches bgs. U-3 was less than 3 feet from a station dispenser island. Both of these situations would have posed a risk to underground utilities or onsite personnel safety had they been abandoned by method of overdrill.

Department of Water Resources (DWR) Well Abandonment Reports, including boring logs, for the six abandoned monitoring wells are presented as **Appendix C**.

**2.3 DISPOSAL OF DERIVED WASTE**

No waste soil or waste water was generated during these abandonment activities. Only construction debris was generated, which does not require laboratory analytical profiling prior to disposal. The drums will be removed and transported to a COP approved disposal facility.

**3.0 LIMITATIONS**

The recommendations contained in this report represent Antea's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Antea 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's Client and anyone else specifically listed on this report. Antea will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea makes no express or implied warranty as to the contents of this report.

Consultant: **ANTEA GROUP**

\*\*\*\*\*

**Monitoring Well Abandonment Report**

76 Service Station No. 5430  
1935 Washington Ave, San Leandro, CA

January 13, 2010

Page 6

**FIGURES**

Figure 1 – Site Location Map

Figure 2 – Site Plan with Abandoned Well Locations

**ATTACHMENTS**

Appendix A – ACEH Directive Letter dated June 23, 2010

Appendix B – Well Abandonment and Encroachment Permits

Appendix C – DWR Well Abandonment Reports

**Monitoring Well Abandonment Report**

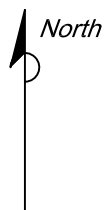
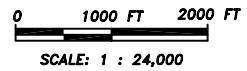
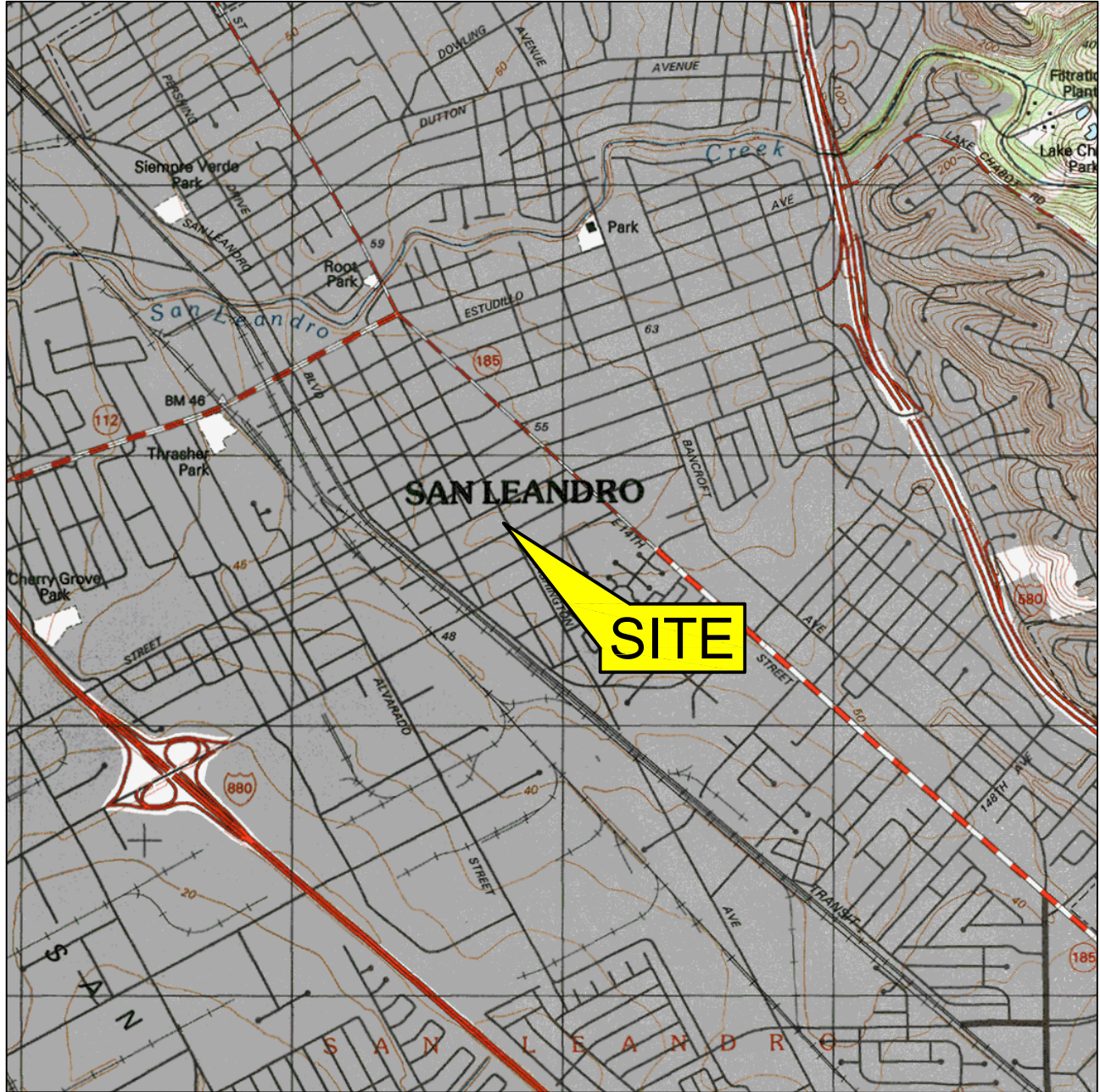
76 Service Station No. 5430

1935 Washington Ave, San Leandro, CA

January 13, 2010

**FIGURES**





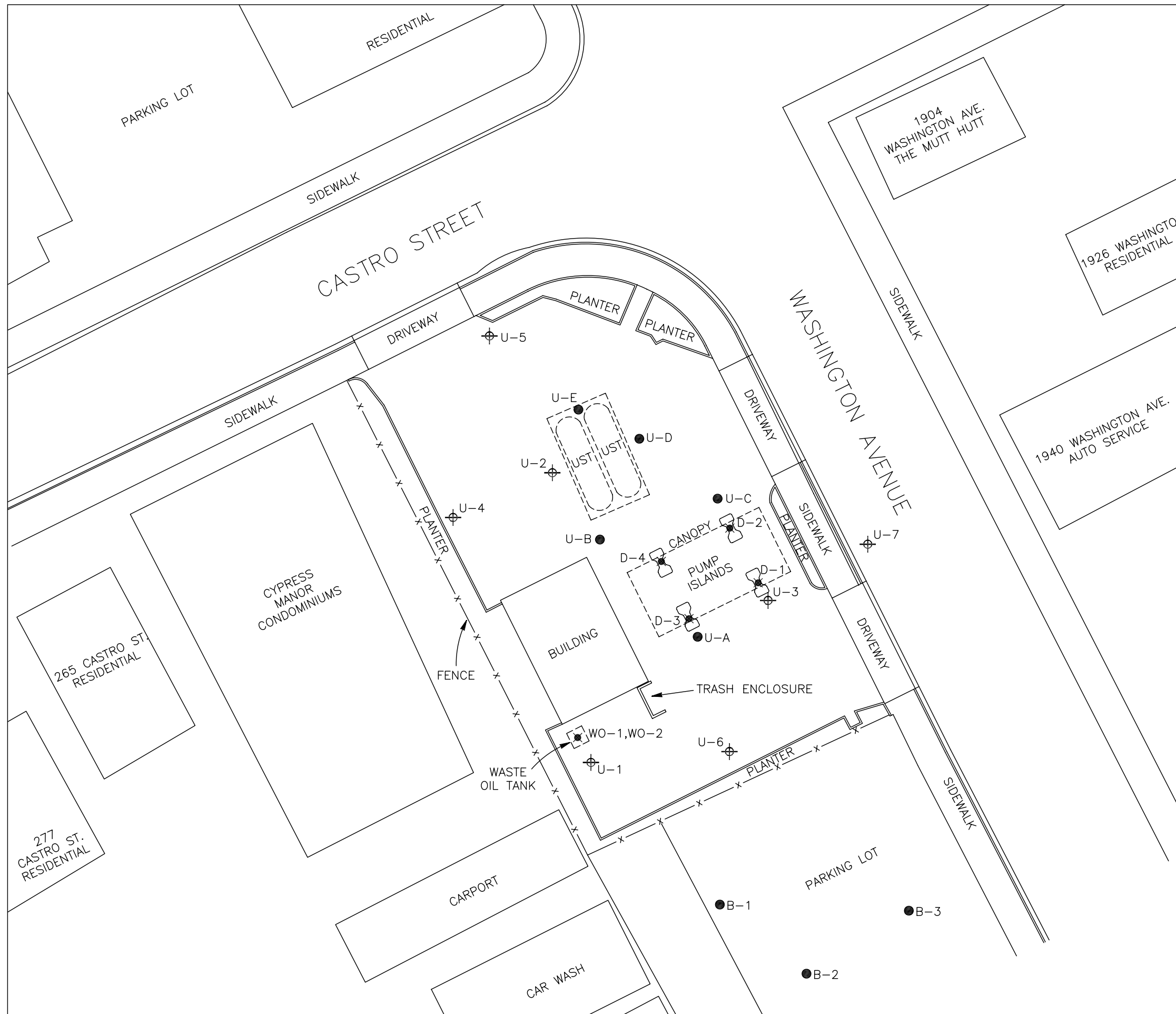
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SAN LEANDRO QUADRANGLE, 1967

FIGURE 1  
SITE LOCATION MAP

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

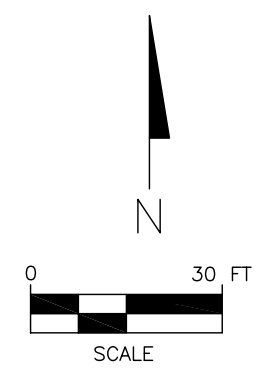
PROJECT NO. C105-430	DRAWN BY JH 12/19/08
FILE NO. Site Locator 5430	PREPARED BY MC
REVISION NO. 1	REVIEWED BY





**LEGEND:**

- ⊕ GROUNDWATER MONITORING WELL
- SOIL BORING
- ✕ SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	

**Monitoring Well Abandonment Report**

76 Service Station No. 5430

1935 Washington Ave, San Leandro, CA

January 13, 2010

**APPENDIX A**

ACEH Directive Letter dated June 23, 2010



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

June 23, 2010

Terry Grayson (via e-mail Terry.L.Grayson@  
contractor.conocophillips.com)  
ConocoPhillips  
76 Broadway  
Sacramento, CA 95818

Ali and Carol Shafiiadi  
1935 Washington Avenue  
San Leandro, CA 94577

Subject: Monitoring Well Decommissioning for Case Closure of Fuel Leak Case No. RO0000443 Global ID # T0600101765, Unocal #5430, 1935 Washington Avenue, San Leandro, CA 94577

Dear Mr. Grayson and Mr. and Mrs. Shafiiadi:

Alameda County Environmental Health (ACEH) and California Regional Water Quality Control Board staff have reviewed the fuel leak case file and case closure summary for the above-referenced site and concur that no further action related to the underground storage tank fuel release is required at this time. Prior to issuance of a remedial action completion certificate, the monitoring wells at the site must be properly destroyed, per California Water Code and all current record owners of fee title to the site must be notified by the primary or active responsible party of the proposed closure action.

ACEH requests that you address the following technical comments, perform the proposed work, and send us the technical reports requested below. Upon receipt of the requested documents a remedial action completion certificate will be sent to the responsible party(ies).

#### **TECHNICAL COMMENTS**

1. **Monitoring Well Destruction** – ACEH is requesting that you contact Alameda County Public Works Agency at (510) 567-6791, obtain the necessary permits, decommission the wells, and electronically upload the well destruction report to ACEH's ftp server and the State Water Resources Control Board's GeoTracker website within ninety (90) days from the date of this letter (August 22, 2010). Electronic reporting is described in detail below.
2. **Landowner Notification Form** – As you may be aware, an investigation resulting from underground storage tank leaks was performed at the subject property to which you are named as the primary or active responsible party. Pursuant to Section 25297.15 (a), Alameda County Environmental Health (ACEH), the local agency, shall not consider cleanup or site closure proposals from the primary or active responsible party, issue a closure letter, or make a determination that no further action is required with respect to a site upon which there was an unauthorized release of hazardous substances from an underground storage tank subject to this chapter unless all current record owners of fee title to the site of the

Mr. Grayson and Mr. and Mrs. Shafiiadl  
RO0000443  
June 23, 2010, Page 2

proposed action have been notified of the proposed action by the primary or active responsible party. ACEH is required to notify the primary or active responsible party of their requirement to certify in writing to the local agency that the notification requirement in the above-mentioned regulation has been satisfied and to provide the local agency with a complete mailing list of all record fee title owners.

To satisfy the above-mentioned requirement, please complete the enclosed "List of Landowners Form," and mail it back to ACEH within thirty (30) days from the date of this letter. Also your comments, if any, must be considered prior to the proposed cleanup or closure. Please respond within 30 days from the date of this letter for your comments to be considered.

Upon our receipt of the completed Landowner Notification Form and report of well decommissioning, (which includes confirmation of investigation derived waste disposal) this office will issue you the remedial action completion certificate.

#### **NOTIFICATION OF FIELDWORK ACTIVITIES**

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork.

#### **TECHNICAL REPORT REQUEST**

Please submit technical reports to ACEH (Attention: Barbara Jakub), according to the following schedule:

- **July 23, 2010** – Completed Landowner Notification Form
- **August 23, 2010** – Well Decommissioning Report

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 639-1287 or send me an electronic mail message at [barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org).

Sincerely,

Barbara J. Jakub, P.G.  
Hazardous Materials Specialist

Enclosures: Responsible Party(ies) Legal Requirements/Obligations  
ACEH Electronic Report Upload (ftp) Instructions  
Landowner Notification Form

cc: James Barnard, Delta Environmental, 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670 (sent via e-mail: [jbarnard@deltaenv.com](mailto:jbarnard@deltaenv.com))  
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (Sent via E-mail to: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com))

Donna Drogos, ACEH (Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Barbara Jakub, ACEH (Sent via E-mail to: [barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org))  
GeoTracker, file

## LIST OF LANDOWNERS FORM

County of Alameda  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

### CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR:

Site Name: Unocal #5430

Address: 1935 Washington Avenue

City, State, Zip: San Leandro, CA 94577

Record ID #: RO0000443

Please fill out item 1 if there are multiple site landowners (attach an extra sheet if necessary). If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I, \_\_\_\_\_ (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

2. In accordance with Section 25297.15(a) of Chapter 6.7 of the California Health & Safety Code, I \_\_\_\_\_, certify that I am the sole landowner for the above site.

Sincerely,

---

Signature of Primary Responsible Party

Printed Name

Date

E-mail Address

**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.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

**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.



<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>ISSUE DATE:</b> July 5, 2005
	<b>REVISION DATE:</b> March 27, 2009
	<b>PREVIOUS REVISIONS:</b> December 16, 2005, October 31, 2005
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> 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

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- 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)

#### Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

#### 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 [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)  
Or
    - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
  - 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 and Firefox browsers will not open the FTP site.
  - b) Click on File, then on Login As.
  - 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 [dehloptoxic@acgov.org](mailto:dehloptoxic@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.

**Monitoring Well Abandonment Report**

76 Service Station No. 5430

1935 Washington Ave, San Leandro, CA

January 13, 2010

**APPENDIX B**

Well Abandonment and Encroachment Permits

# 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: 07/28/2010 By jamesy**

**Permit Numbers: W2010-0579 to W2010-0585**  
**Permits Valid from 08/31/2010 to 09/02/2010**

**Application Id:** 1280270423135  
**Site Location:** 1935 Washington Ave, San Leandro, CA  
**Project Start Date:** 08/31/2010  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

**City of Project Site:** San Leandro

**Completion Date:** 09/02/2010

**Applicant:** Delta - James Barnard  
11050 White Rock Rd, Ste 110, Ranco Cordova, CA 94607

**Phone:** 916-503-1279

**Property Owner:** Conoco Phillips, Bill Borgh  
76 Broadway, Sacramento, CA 94607

**Phone:** 916-558-7666

**Client:** \*\* same as Property Owner \*\*

	<b>Total Due:</b>	\$2779.00
<b>Receipt Number: WR2010-0268</b>	<b>Total Amount Paid:</b>	\$2779.00
<b>Payer Name : Delta</b>	Paid By: CHECK	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Destruction-Monitoring - 7 Wells

Driller: Gregg Drilling - Lic #: 485165 - Method: press

**Work Total: \$2779.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-0579	07/28/2010	11/29/2010	U-1	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A3	93010	No Records
W2010-0580	07/28/2010	11/29/2010	U-2	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A4	93010	No Records
W2010-0581	07/28/2010	11/29/2010	U-3	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A5	93010	No Records
W2010-0582	07/28/2010	11/29/2010	U-4	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A6	95063	559902
W2010-0583	07/28/2010	11/29/2010	U-5	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A7	95063	559902
W2010-0584	07/28/2010	11/29/2010	U-6	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A8	95063	559902
W2010-0585	07/28/2010	11/29/2010	U-7	10.00 in.	2.00 in.	16.00 ft	40.00 ft	2S/3W35A9	95063	559902

**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.

## Alameda County Public Works Agency - Water Resources Well Permit

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 mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including 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 Vicky Hamlin for an inspection time at 510-670-5443 or email to [vickyh@acpwa.org](mailto:vickyh@acpwa.org) 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. Remove the Christy box or similar structure. Destroy wells U-3 and U-7 by overdrilling & Tremie Grouting with Cement. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.
  10. Remove the Christy box or similar structure. Destroy wells U-1,U-2,U-4,U-5 and U-6 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.
-



City of San Leandro  
 Engineering and Transportation Department  
 835 East 14th Street  
 San Leandro, California 94577  
 (510) 577-3428



**ENCROACHMENT PERMIT**

Permit Type: Environmental

JL

Permit Number: ENC2010-00308 Job Address: 1935 Washington Av

Issued: 7/29/2010

Project Name: DELTA CONSULTANTS

Description of Work: Presure grout abandonment of monitoring well WM-7 in street and remove of concrete 30"x30" well box. Gregg Drilling & Testing will be the subcontractor.

Customer #  
21902

Planned Start Date : August 30, 2010 Planned Completion Date : November 30, 2010 USA Tag No . 212517

Emergency Contact James Barnard Contact Phone Number 916-764-9928

Applicant: Owner:

DELTA CONSULTANTS  
 11050 WHITE ROCK RD  
 RANCHO CORDOVA CA 95670

Corporatio Tosco  
 P.o. Box 1539  
 Paso Robles CA 93447-1539

Contractor: Agent:

JEMES BARNARD  
 11050 WHITE ROCK RD SUITE 110  
 RANCHO CORDOVA CA 95670

Associated Permits:

- Building Permit No.
- Oro Loma Permit No.
- Cal State Permit No.
- Ala County Permit No.
- Grading Permit No.

PERMIT FEE: 65 To Acct #3306  
 PLAN CHECKER \_\_\_\_\_ Hrs \_\_\_\_\_  
 RESTORE/INSPECT DEPOSIT 1800  
 To CN# 21902  
 STREET CUT FEE \_\_\_\_\_ To Acct #3304  
 TOTAL: 1865.00

Utility /Job Number

Method of Repair  
 Backfill Required

Pavement Section Requir  
 Section 1  
 Section 2  
 Section 3

Min Depth of Cover

All work shall be per City Standard Provisions. Pedestrian safety and access shall be maintained at all times.

Consent Form Pre Video Post Video

**PLEASE CALL (510) 577-3308 FOR INSPECTIONS 24 HOURS PRIOR TO WORK**

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment for all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Signature: On File

Print Name: JEMES BARNARD

Date: 7/29/2010 11:50:10A

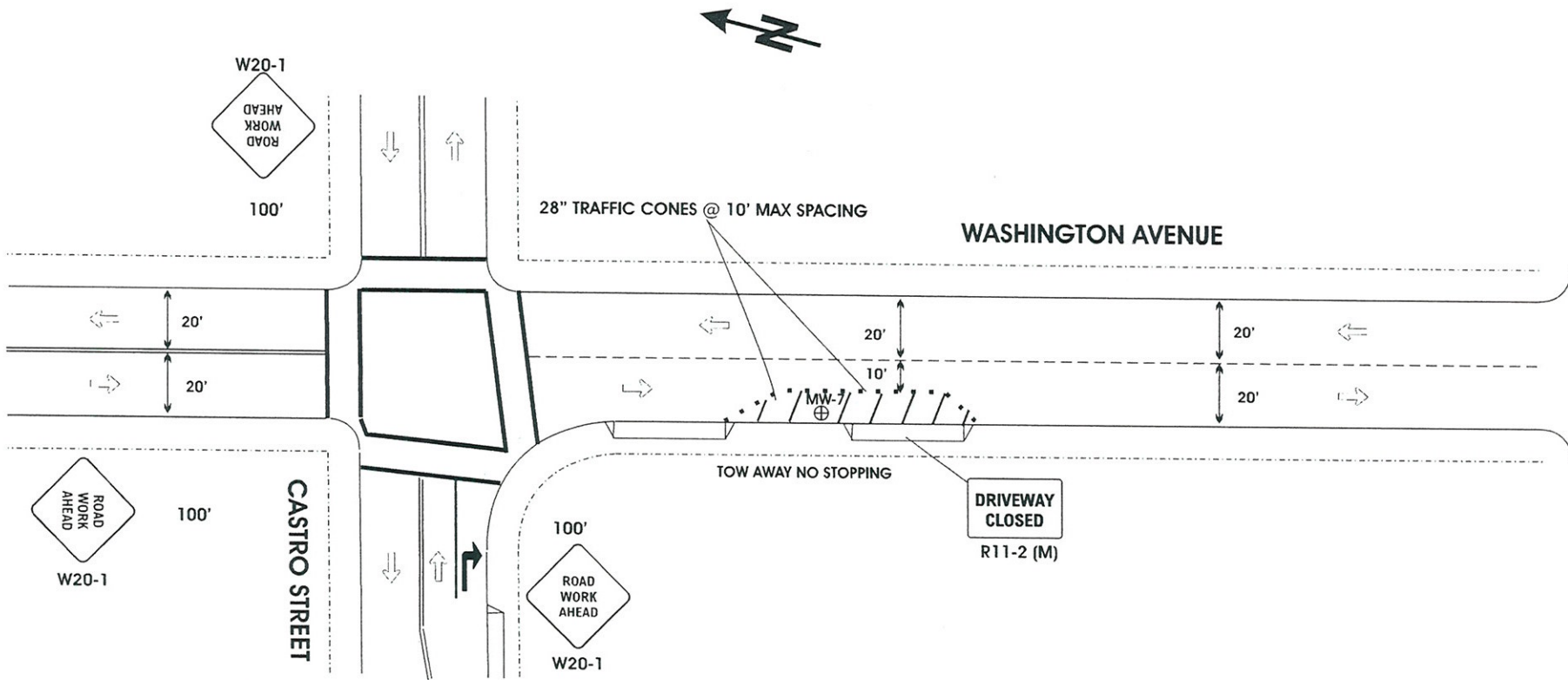
## GENERAL PROVISIONS

- (a) All work must be performed in accordance with City of San Leandro Standard Plans, Specifications, and Title V Chapter 1 of the Municipal Code.
- (b) Twenty four hours notice prior to start and/or request for inspection. All work must be completed between the hours of 8:00AM to 4:00PM. No work is permitted on Saturday, Sunday, City holidays, or Furlough days. The City website has a schedule of holidays and furlough days: <http://www.ci.san-leandro.ca.us/holidayschedule.html>
- (c) City to be notified next working day (by permit application) of all emergency work performed.
- (d) Permittee shall be responsible for all liability imposed by law for personal injury or property damage proximately caused by failure on permittee's part to perform his obligations under said permit respect to maintenance. If any claim of such liability is made against the City of San Leandro or its officers or employees, permittee shall defend, indemnify and hold each of them harmless from such claim.
- (e) No utility contractor or subcontractor shall park their construction equipment, including personal vehicles, entirely or partially in the sidewalk area. Per Section 5610 of the Streets and Highways Code, the permittee shall be responsible for the repair of any damaged sidewalk where utility contractor's or subcontractor's vehicles or equipment are parked whether or not the damage was preexisting.
- (f) Cost of emergency work required to restore unsatisfactorily construction that becomes hazardous will be charged to permittee.
- (g) Permit void 90 days from issue date unless otherwise noted. Extension time may be granted when requested in writing.
- (h) Permit must be readily available at work site. Permit is not assignable.
- (i) Section 6500 of the Labor Code requires permit from the State Division of Industrial Safety (CAL OSHA) prior to an excavation five feet or deeper.
- (j) Prior to digging or drilling, permittee shall request Undergrounding Service Alert (USA) markings, phone #800-227-2600.
- (k) Trenches are to be inspected prior to backfilling. Backfill compaction tests may be required.
- (l) All tunneling prohibited. Pipe must be bored or jacked or open trenched - including under curb, gutter and/or sidewalk.
- (m) Forms for concrete work must be inspected prior to placing concrete.
- (n) All concrete, including concrete pavement (overlayed with A.C. or not), must be sawcut prior to breakout.
- (o) All sawcuts must be along scorelines, 1.5" minimum depth (special conditions for concrete pavements).
- (p) Concrete sections to be replaced shall be no smaller than 30 inches in either length or width.
- (q) If a sawcut falls within 30 inches of a construction joint, expansion joint or edge, the concrete shall be removed to the joint or edge.
- (r) Temporary paving is required in all street and sidewalk areas and is to be placed the same day work is performed. From October 15 through April 15, only A.C. paving is to be used.
- (s) Permanent paving or sidewalk is to be replaced within **30 days**. Permittee shall notify City before placing surfacing.
- (t) Permittee shall provide, erect, and/or maintain such lights, barriers, warning signs, patrols, watchmen and other safeguards as are necessary to protect the traveling public in accordance with the current State "Manual of Warning Signs, Lights, and Devices for Use in Performance of Work Upon Highways".
- (u) Before any work is begun that will interrupt the normal flow of public traffic, proposed lane closures and advanced warning light, sign, and barricade with flashing light details and layout plans shall be submitted to the City. If flagmen are required copies of certifications must be provided prior to issuance of a permit.
- (v) Open trench one lane at a time, necessary traffic control, to keep traffic moving both directions during working hours. If at the end of the work day backfilling operations have not been completed, steel bridging shall be required to make the entire traveled way available to the public traffic.
- (w) Pedestrian safety shall be maintained at all times.
- (x) Permittee shall contact City for final inspection and approval of completed work.

## INSPECTION RECORD

Date	Comments	Inspector	Hours Charged
		Subtotal	

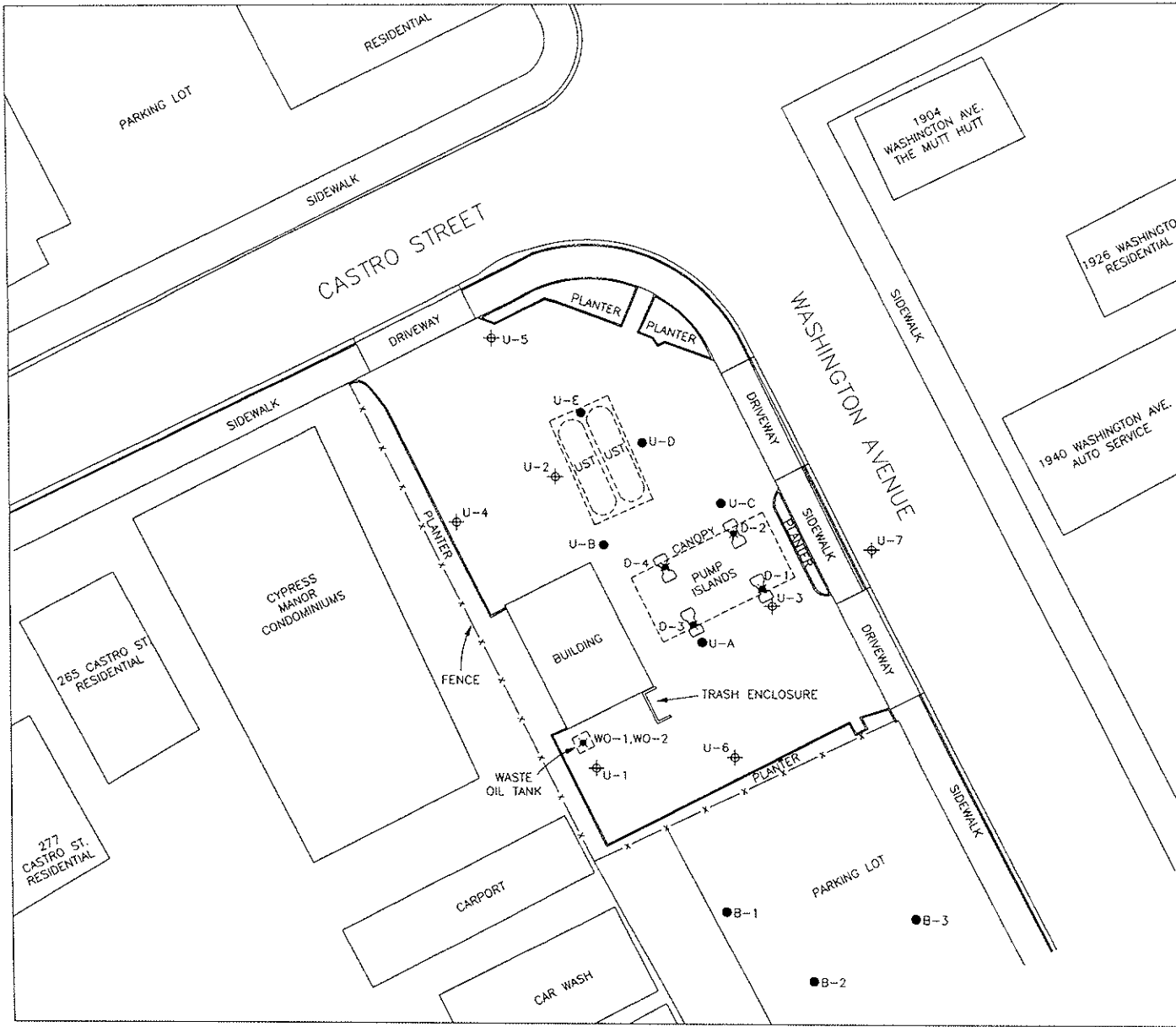
# TRAFFIC CONTROL PLAN - 1935 WASHINGTON STREET, SAN LEANDRO (MW-7)



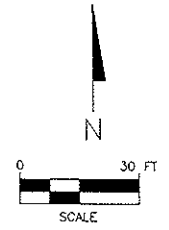
*WORK HOURS: 9:00 AM to 3:00 PM Only per D.H. 7/29/10.*

PREPARED BY: ROBERT SCULLY  
 HIGHWAY TECHNOLOGIES, INC.  
 1277 OLD BAYSHORE HWY.  
 SAN JOSE CA, 95112  
 (408) 295-8210  
 (408) 998-5939 FAX  
 C-31 C-32 CONTRACTORS LIC. 796782

FIGURE 3



- LEGEND:**
- ⊕ GROUNDWATER MONITORING WELL
  - SOIL BORING
  - ✱ SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2**  
**SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	



# CITY OF SAN LEANDRO

835 EAST 14th STREET • SAN LEANDRO, CALIFORNIA 94577

RECEIPT NO. 91677

Taxpayer ID# 94-6000421

RECEIVED  
CITY OF SAN LEANDRO

JUL 29 2010

ENG'G / TRANS.

Date 7/29 2010

Received From Delta Environmental Consultants Inc \$ 1865.00

Address 5910 Rice Creek Parkway, Ste. 100, Shoreview  
MN. 55126

For 1935 Washington Ave.

ENC2010-00308.

\$65 3306

\$1800 21902

\$1865 check #628755

Account No. 21902

By Jane Lo

NOT VALID UNTIL RECEIPTED BY CASHIER



**Monitoring Well Abandonment Report**

76 Service Station No. 5430

1935 Washington Ave, San Leandro, CA

January 13, 2010

**APPENDIX C**

DWR Well Abandonment Reports

# CONFIDENTIAL

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

Castro St

Washington  
Ave

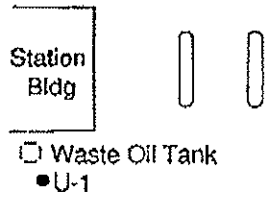
REMOVED



5430

WELL COMPLETION		MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT					1			ML	ASPHALT and BASEROCK
					2				CLAYEY SILT: dark brown; <.5mm rootholes; stiff; no product odor.
		Dp	ND	14	3				
					4				
					5				
					6				
					7				
					8				
					9				
		Dp	ND	16	10				@9.5': dark yellowish brown; 15-25% very fine sand; 20% clay; stiff; no product odor.
					11				
					12				
					13				
					14				
		Dp	ND	22	15			SP	SAND: dark yellowish brown; <5% fines; very fine grained; medium dense; no product odor.
					16				
					17				
					18				
					19				
		Dp	ND	23	20			SM	SILTY SAND: dark yellowish brown; 20-30% silt; very fine to fine grained; <5% coarse sand; medium dense; no product odor.
					21				
					22				

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. U-1  
PAGE 1 OF 3

PROJECT NO. 310-38.01  
 LOGGED BY: DA  
 DRILLER: WEST HAZMAT  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: CAL MOD  
 CASING TYPE: Sch 40 PVC  
 SLOT SIZE: 0.02"  
 GRAVEL PACK: 2X12

CLIENT: UNOCAL  
 DATE DRILLED: 8-4-93  
 LOCATION: 1935 Washington Ave.  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 46'  
 WELL DIAMETER: 2"  
 WELL DEPTH: 40'  
 CASING STICKUP: NA

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. U-1  
PAGE 2 OF 3

PROJECT NO. 310-38.01  
LOGGED BY:  
DRILLER:  
DRILLING METHOD:  
SAMPLING METHOD:  
CASING TYPE:  
SLOT SIZE:  
GRAVEL PACK:

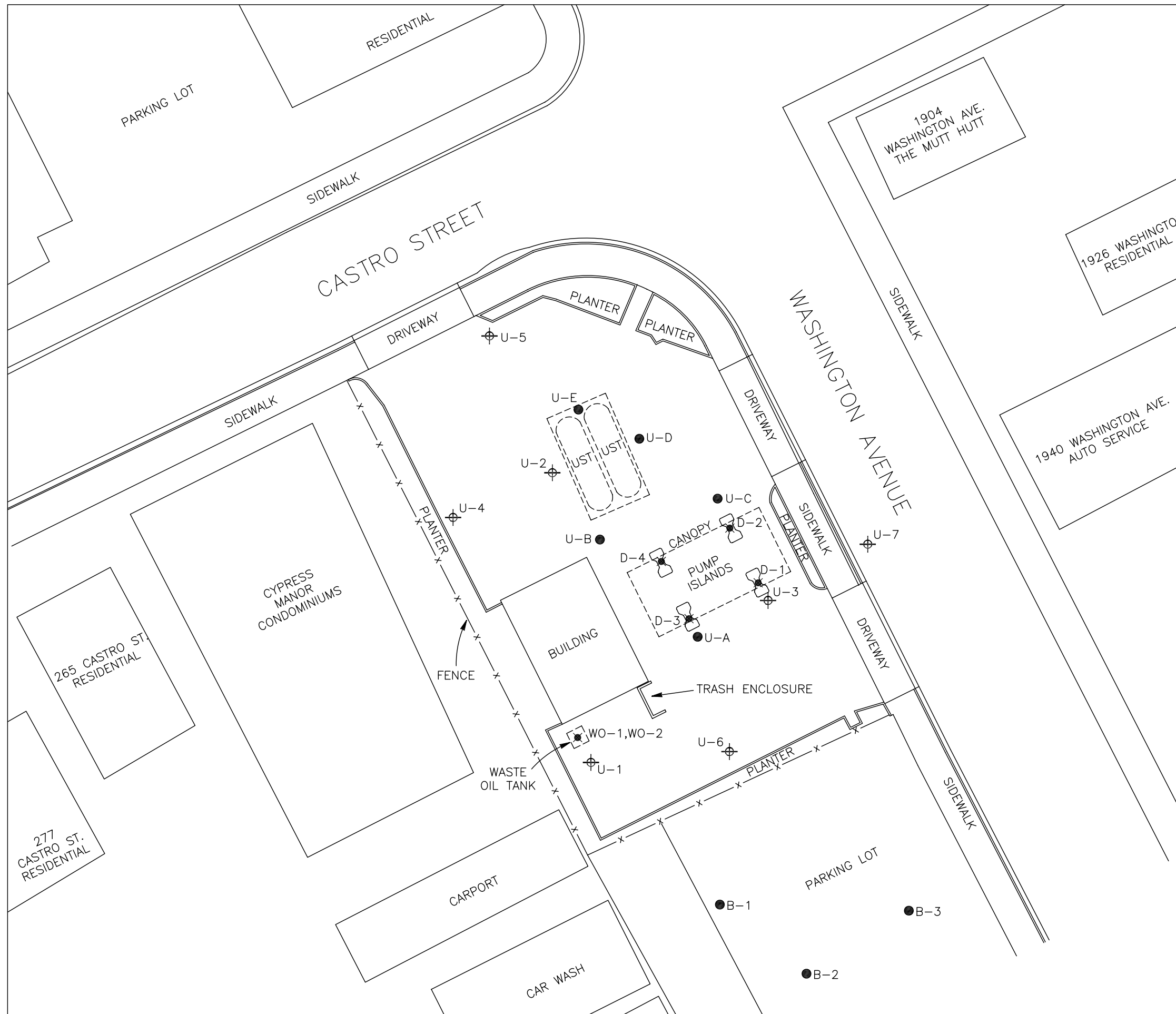
CLIENT: UNOCAL  
DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DIAMETER:  
WELL DEPTH:  
CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND				23			SM	SILTYSAND - continued.
				24			CL	SANDY CLAY: dark brown; 25% very fine sand; <.5mm rootholes; no product odor.
		Wt	8	26	25		SM	SILTY SAND: dark yellowish brown; fine to coarse grained; 5% subrounded fine to grained gravel; medium dense; no product odor.
				27				
				28			CL	SILTY CLAY: brown; trace sand; <.5mm rootholes; very stiff; no product odor.
		Wt		37	30		SC	CLAYEY SAND: dark yellowish brown; 35-45% clay; fine to medium grained; medium dense; no product odor.
		Wt-Sat	ND		31			
				33				
				34				
		Wt	ND	33	35		CL	SILTY CLAY: dark yellowish brown; 20-25% silt; <.5mm rootholes; very stiff; no product odor.
				36				
				37				
				38				
				39				
		Mst	ND	31	40			@40': light olive brown; very stiff; no product odor.
				41				
				42				
				43				
				44				

Backfilled With Bentonite

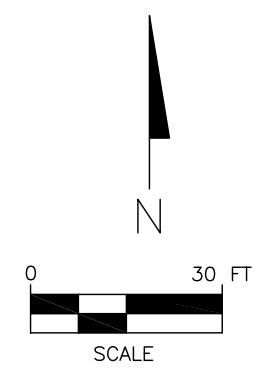
LOCATION MAP  <div style="text-align: center; font-size: 24pt; font-weight: bold;">See Page One</div>	<b>PACIFIC ENVIRONMENTAL GROUP, INC.</b>	WELL NO. U-1 PAGE 3 OF 3
PROJECT NO. 310-38.01 LOGGED BY: DRILLER: DRILLING METHOD: SAMPLING METHOD: CASING TYPE: SLOT SIZE: GRAVEL PACK:		CLIENT: UNOCAL DATE DRILLED: LOCATION: HOLE DIAMETER: HOLE DEPTH: WELL DIAMETER: WELL DEPTH: CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
Backfilled With Bentonite	Wt	ND	29	45		█	CL	SILTY CLAY: dark olive brown; 30-40% silt; very stiff; no product odor.
				46		█		BOTTOM OF BORING 46'
				47				
				48				
				49				
				50				
				51				
				52				
				53				
				54				
				55				
				56				
				57				
				58				
				59				
				60				
				61				
				62				
				63				
				64				
				65				
				66				



**LEGEND:**

- ⊕ GROUNDWATER MONITORING WELL
- SOIL BORING
- ✕ SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	

# CONFIDENTIAL

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

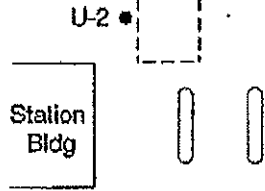
Castro St

Washington Ave

REMOVED



LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. U-2  
PAGE 1 OF 2

PROJECT NO. 310-38.01  
 LOGGED BY: DA  
 DRILLER: WEST HAZMAT  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: CAL MOD  
 CASING TYPE: Sch. 40 PVC  
 SLOT SIZE: .02"  
 GRAVEL PACK: 2X12

CLIENT: UNOCAL  
 DATE DRILLED: 8-5-93  
 LOCATION: 1935 Washington Ave.  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 41'  
 WELL DIAMETER: 2"  
 WELL DEPTH: 40'  
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				1			ML	ASPHALT and BASEROCK
				2				CLAYEY SILT: dark yellowish brown; low plasticity; <5mm rootholes; stiff; no product odor.
				3				
				4				
			15	5				
				6				
				7				
				8				
			19	9			SM	
				10				SILTY SAND: dark yellowish brown; 20-30% silt; very fine grained; medium dense; no product odor.
				11				
				12				
			20	13				
				14				
				15			CL	
				16				SANDY CLAY: dark yellowish brown; silty; 15-20% fine sand; very stiff; no product odor.
				17				
				18				
			23	19				
				20				@19.5': very stiff; no product odor.
				21				
				22				

GROUT

BENTONITE

SAND

LOCATION MAP

See Page One

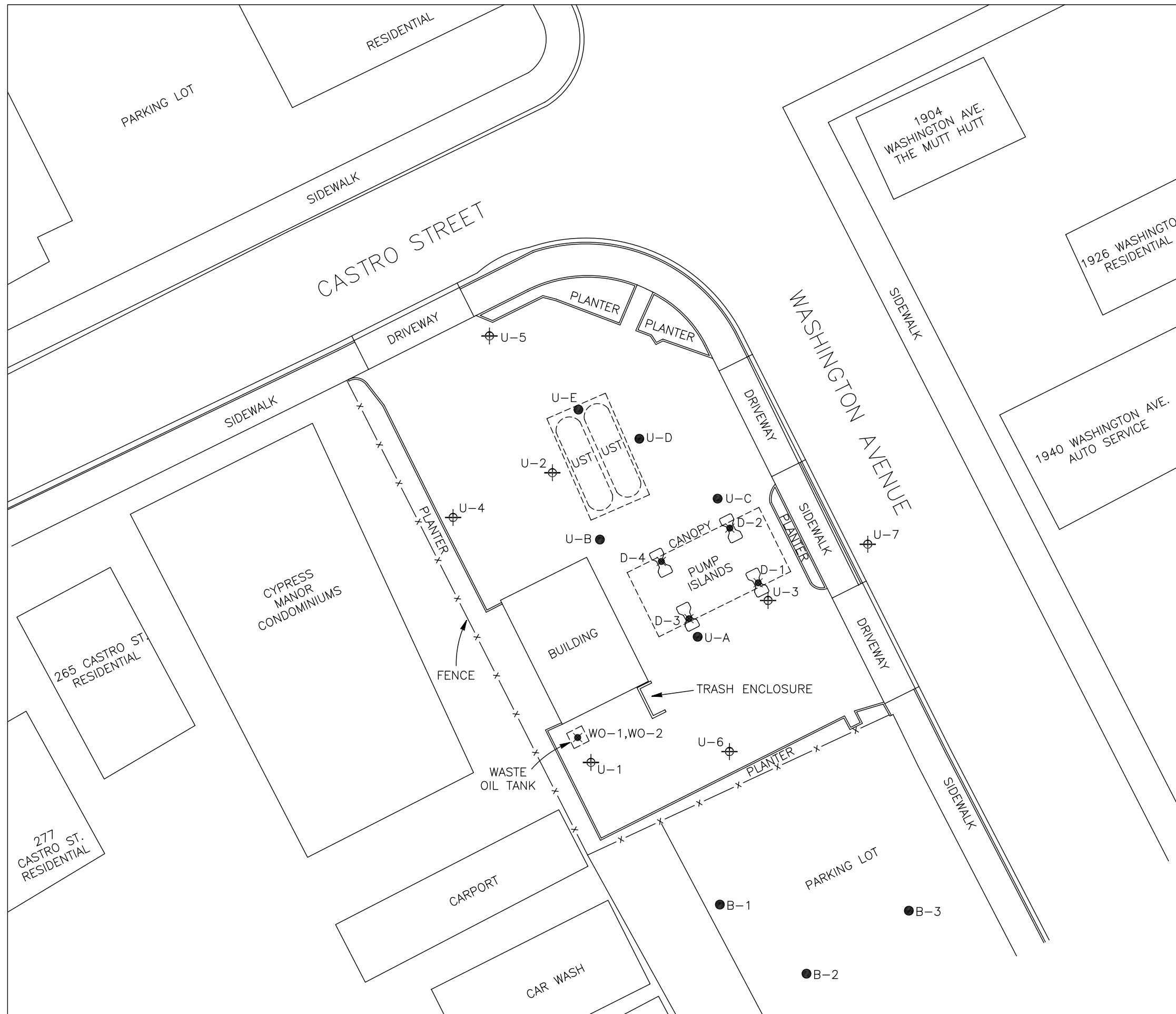
PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. U-2  
PAGE 2 OF 2




PROJECT NO. 310-38.01  
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DRILLING METHOD:  
SAMPLING METHOD:  
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SLOT SIZE:  
GRAVEL PACK:

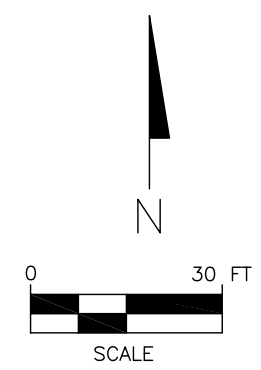
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DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DIAMETER:  
WELL DEPTH:  
CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND		Dp	ND	30	23		CL	SILTY CLAY: trace rounded gravel; rootholes; brown staining; very stiff; no product odor.
					24			
					25			
					26		SM	
					27			
					28			
					29			
					30		CL	
					31			
					32			
					33			
					34			
					35			
					36			
		Mst	ND	37			CL	SANDY CLAY: olive brown; 25-30% very fine sand; very stiff; moderate plasticity; brown roothole staining; <.5mm rootholes.
				38				
				39				
				40				@34.5': dark yellowish brown; very stiff; no product odor.
				41				@39.5': very stiff; no product odor.
				42				BOTTOM OF BORING AT 41'
				43				
				44				



**LEGEND:**


-  GROUNDWATER MONITORING WELL
-  SOIL BORING
-  SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

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1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	

# CONFIDENTIAL

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

Castro St

Washington  
Ave

REMOVED



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

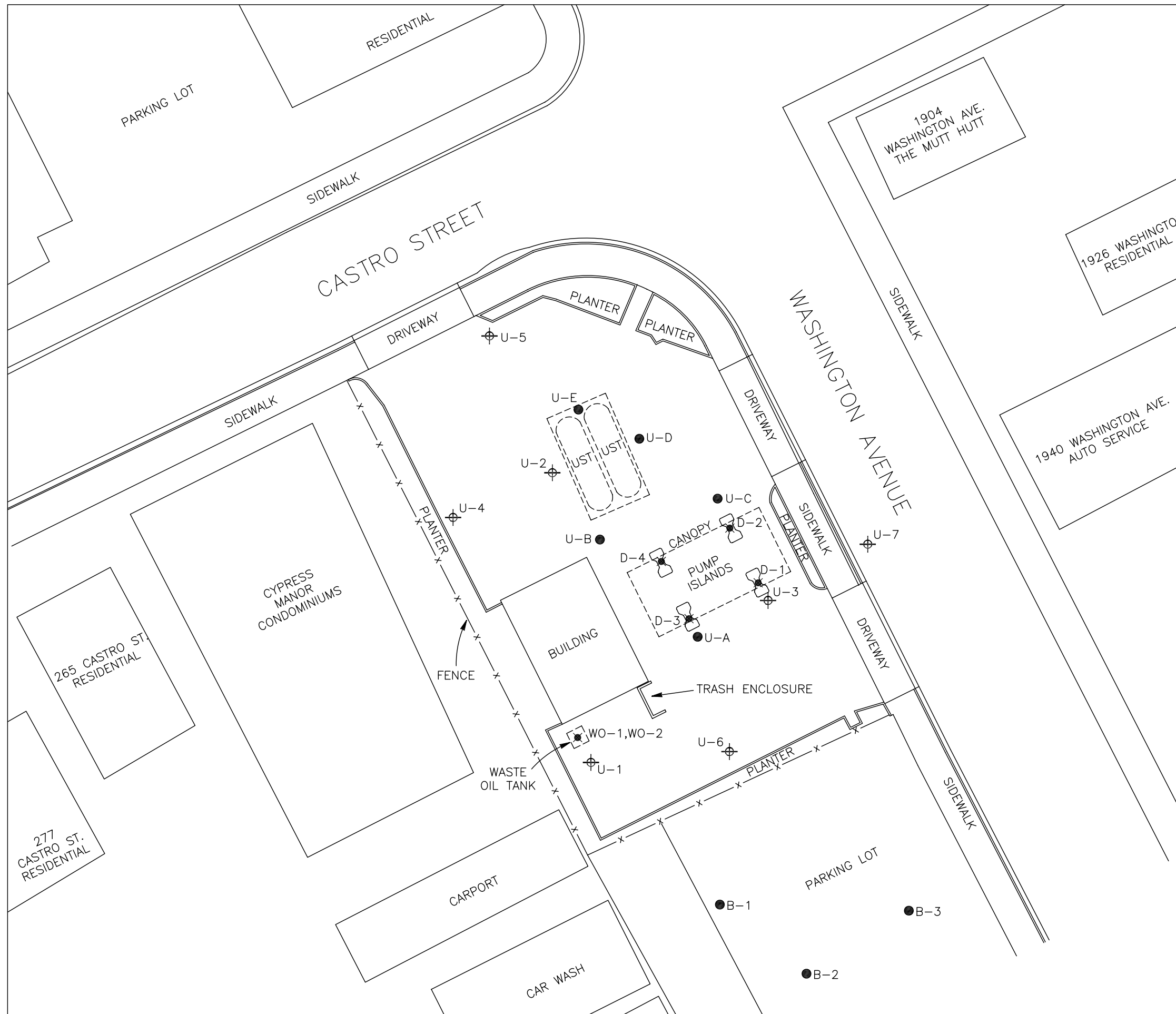
WELL NO. U-3  
PAGE 2 OF 2

See Page One




PROJECT NO. 310-38.01  
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DRILLER:  
DRILLING METHOD:  
SAMPLING METHOD:  
CASING TYPE:  
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GRAVEL PACK:

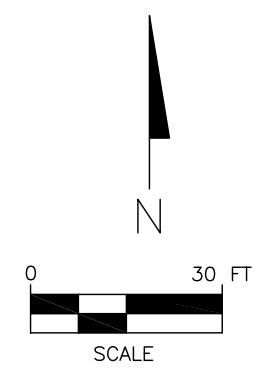
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DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DIAMETER:  
WELL DEPTH:  
CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
SAND	Mst	90	20	23			CL	SILTY CLAY: 30-40% silt; organic matter; very stiff; no product odor.
				24				
				25				
				26				
				27				
				28				
				29				
				30				
				31				
				32				
				33				
				34				
				35				
				36				
	Mst	120	28	29.5			@29.5': 20-30% silt; organic matter; grey roothole staining; very stiff; faint to moderate product odor.	
	Wet	30	32	34.5			@34.5': very stiff; faint to moderate product odor.	
	Wet	25	33	39.5			@39.5': very stiff; no to faint product odor.	
				40			BOTTOM OF BORING AT 41'	
				41				
				42				
				43				
				44				



**LEGEND:**


-  GROUNDWATER MONITORING WELL
-  SOIL BORING
-  SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	

# CONFIDENTIAL

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

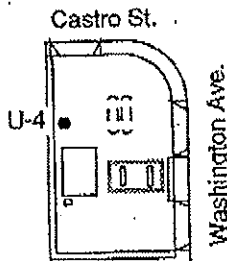
Castro St

Washington  
Ave

REMOVED



LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

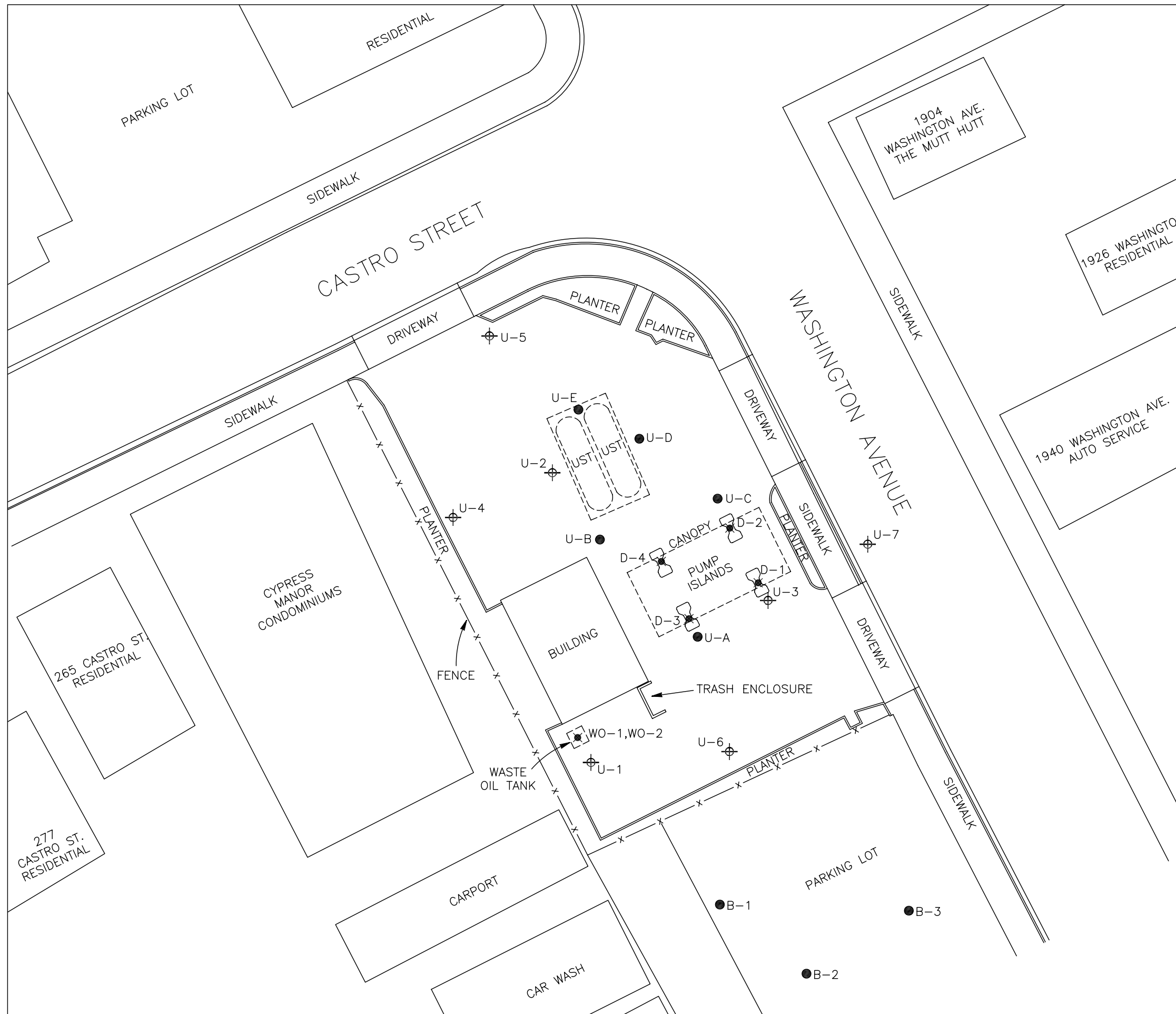
WELL NO. U-4  
PAGE 1 OF 1

PROJECT NO. 310-038.1C  
LOGGED BY: MOTO  
DRILLER: MDE  
DRILLING METHOD: HSA  
SAMPLING METHOD: CALMOD  
CASING TYPE: SCH 40 PVC  
SLOT SIZE: 0.020"  
GRAVEL PACK: 2 X 12 SAND




CLIENT: UNOCAL  
DATE DRILLED: 2-21-95  
LOCATION: 1935 Washington Ave.  
HOLE DIAMETER: 8"  
HOLE DEPTH: 40.5'  
WELL DIAMETER: 2"  
WELL DEPTH: 40'  
CASING STICKUP: NA

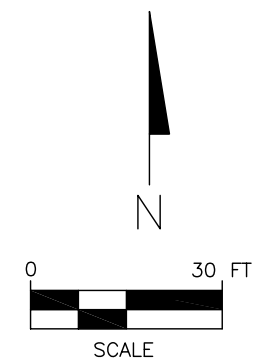
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	ASPHALT & BASEROCK
				4			SC	CLAY: very dark gray; moderate plasticity; 85% clay; 10% silt; trace fine sand; very stiff; no product odor.
	Mst	0	27	6			SC	CLAYEY SAND: yellowish brown; 20% clay; 75% fine sand; trace coarse sand; medium dense; no product odor.
				8				
	Mst	0	31	10			SP	SAND: dark yellowish brown; 10% silt; 85% fine sand; trace coarse sand; medium dense; no product odor.
				12				
	Mst	0	30	14				@14.5': 85% fine sand; 15% subangular to subrounded gravel to 1/2" diameter; medium dense; no product odor.
				16				
	Mst	0	30	18			CL	SILTY CLAY: dark yellowish brown; low plasticity; 75% clay; 20% silt; trace fine sand; very stiff; no product odor.
				20				
	Mst-Wt	0	29	22			CL	CLAY: dark gray; low to moderate plasticity; 85% clay; 10% silt; trace fine sand; 0.5mm rootholes common; very stiff; no product odor.
				24				
	Wt	0	29	26			SC	CLAYEY SAND: olive; 35% clay; 55% fine sand; 10% fine gravel; bluish gray mottling common; iron oxide staining along rootholes; dense; no product odor.
				28				
	Wt	0	30	30			CL	SANDY CLAY: light olive brown; low to moderate plasticity; 85% clay; 15% fine sand; pervasive bluish gray mottling; very stiff; no product odor.
				32				
	Wt	0	28	34			CL	SILTY CLAY: light olive brown; low to moderate plasticity; 80% clay; 15% silt; trace fine gravel; very stiff; no product odor.
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 40.5'



**LEGEND:**

-  GROUNDWATER MONITORING WELL
-  SOIL BORING
-  SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430



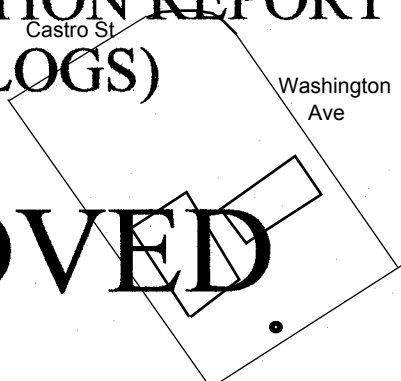
# CONFIDENTIAL

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

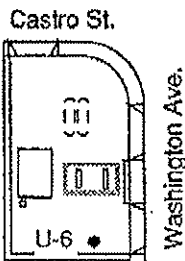
Castro St

Washington  
Ave

# REMOVED



LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

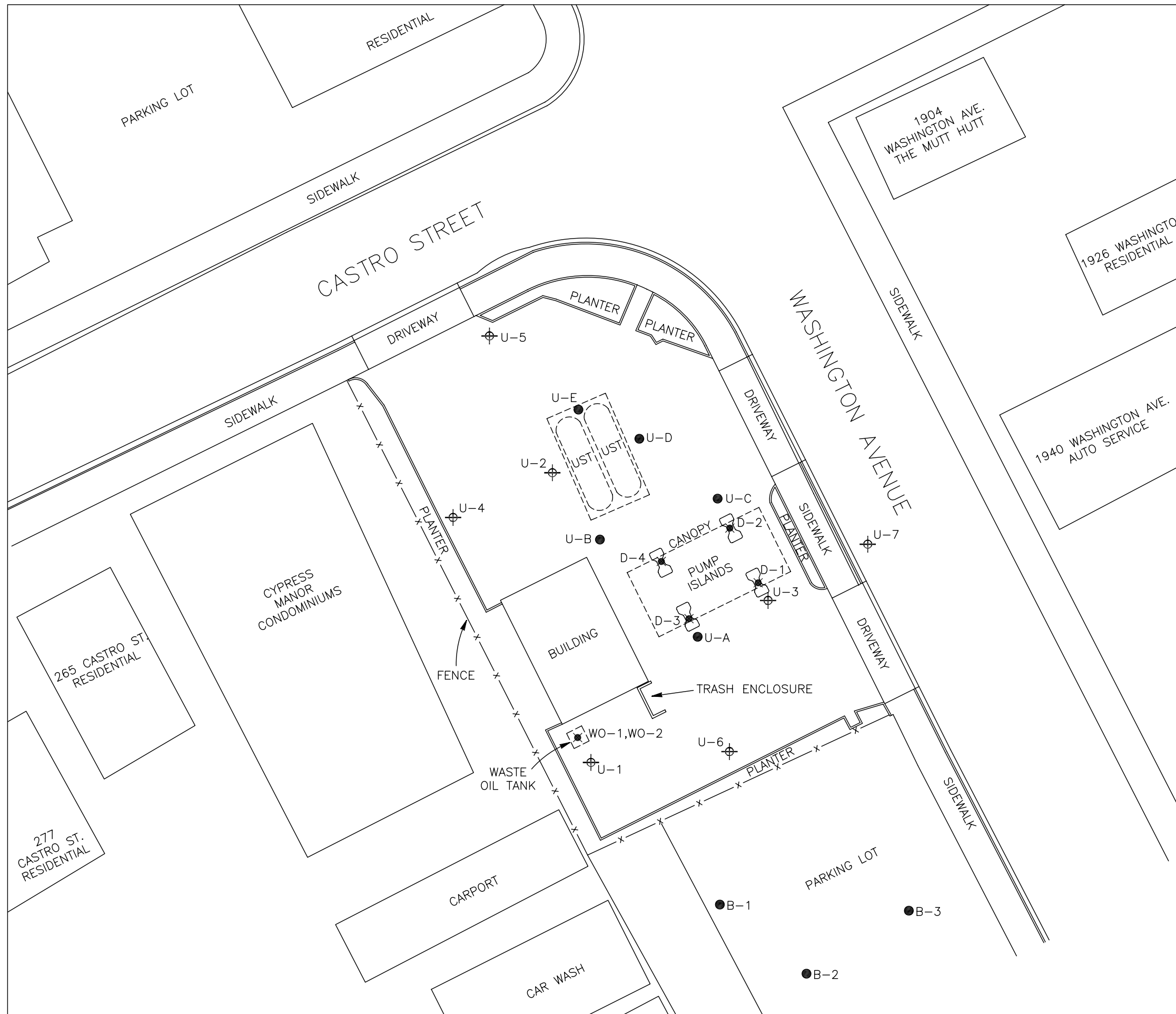
WELL NO. U-6  
PAGE 1 OF 1

PROJECT NO. 310-038.1C  
 LOGGED BY: MOTO  
 DRILLER: MDE  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: CALMOD  
 CASING TYPE: SCH 40 PVC  
 SLOT SIZE: 0.020"  
 GRAVEL PACK: 2 X 12 SAND




CLIENT: UNOCAL  
 DATE DRILLED: 2-21-95  
 LOCATION: 1935 Washington Ave.  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 40.5'  
 WELL DIAMETER: 2"  
 WELL DEPTH: 40'  
 CASING STICKUP: NA

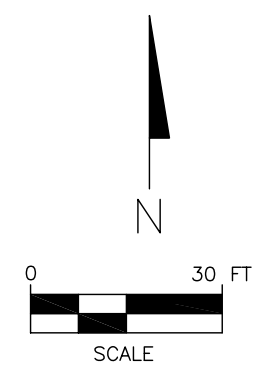
WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				ASPHALT & BASEROCK
	Mst	0	16	4			ML	SILT: dark yellowish brown; low plasticity; 15% clay; 75% silt; 10% fine sand; 1/4" roots common; stiff; no product odor.
	Mst	0	24	10				@10': yellowish brown; low plasticity; trace clay; 90% silt; trace fine sand; very stiff; no product odor.
	Mst	0	28	14				@15': brownish yellow; trace rootholes; very stiff; no product odor.
	Mst	0	34	20				@20': sandy silt; brownish yellow; trace clay; 80% silt; 15% fine sand; trace iron oxide and manganese oxide staining; very stiff; no product odor.
	Mst	0	33	24			SC	CLAYEY SAND: dark yellowish brown; 15% clay; 15% silt; 70% fine sand; trace iron oxide staining; medium dense; no product odor.
	Wt	0	29	26			CL	SANDY CLAY: dark yellowish brown; low plasticity; 75% clay; 10% silt; 15% fine sand; very stiff; no product odor.
	Wt	105	22	30			SC	CLAYEY SAND: dark yellowish brown; 25% clay; 70% fine sand; 5% fine gravel; trace iron oxide staining; trace dark gray mottling; very stiff; no product odor.
	Wt	0	30	32			CL	CLAY: olive; low plasticity; 90% clay; trace silt; trace fine sand; trace manganese oxide staining; trace bluish gray mottling; iron oxide staining common; very stiff; faint product odor.
				34				
				36				
				38				
				40				@40': mottling color change to gray; very stiff; no product odor.
				42				
				44				

BOTTOM OF BORING AT 40.5'



**LEGEND:**


-  GROUNDWATER MONITORING WELL
-  SOIL BORING
-  SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH	
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430	

# CONFIDENTIAL

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

Castro St

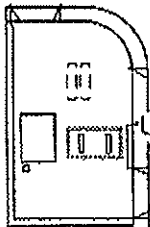
Washington Ave

REMOVED



LOCATION MAP

Castro St.



Washington Ave.

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. U-7

PAGE 1 OF 1

PROJECT NO. 310-038.1C  
 LOGGED BY: C.R.  
 DRILLER: MDE  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: CALMOD  
 CASING TYPE: SCH 40 PVC  
 SLOT SIZE: 0.020"  
 GRAVEL PACK: 2 X 12 SAND

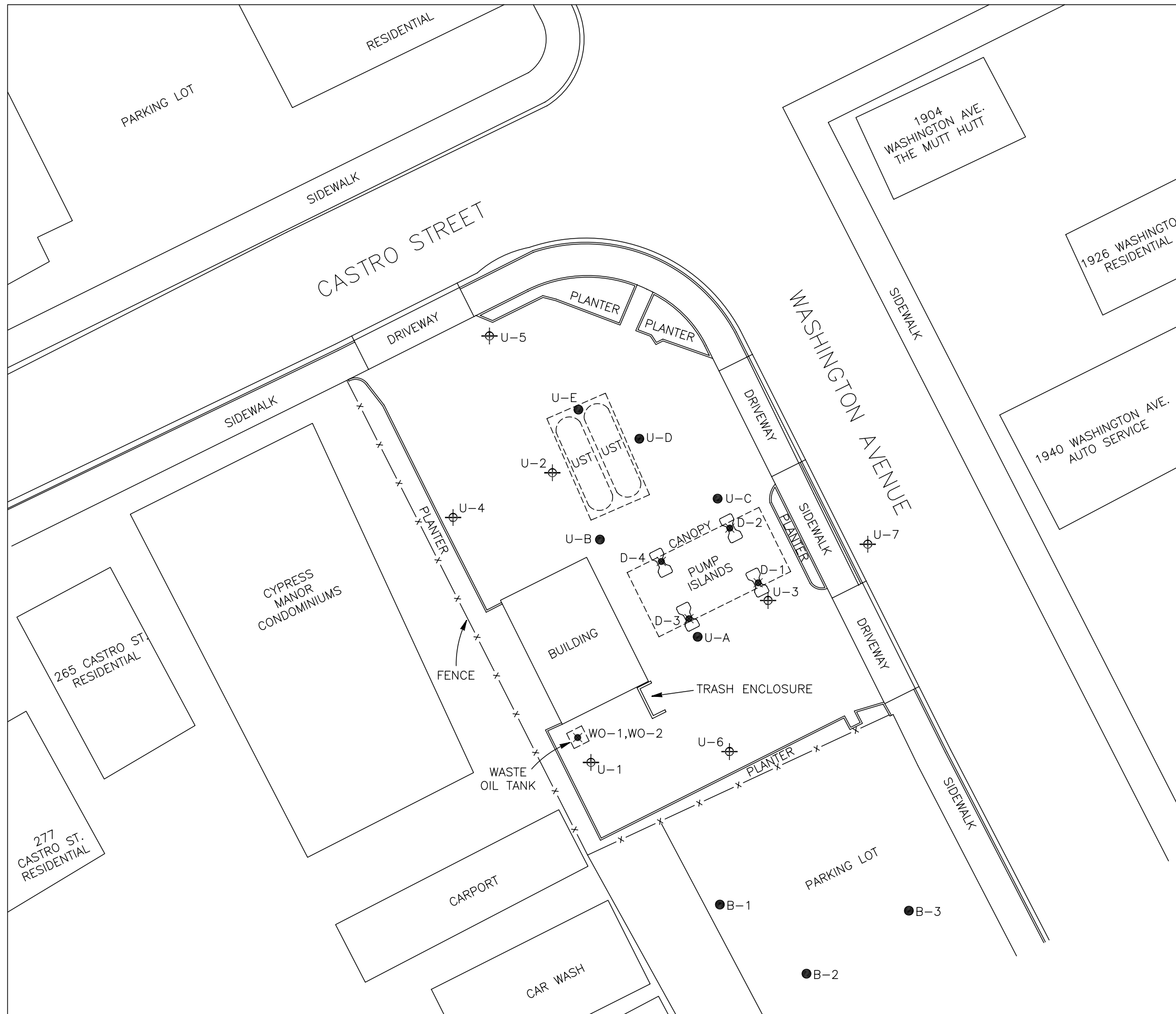
CLIENT: UNOCAL  
 DATE DRILLED: 2-22-95  
 LOCATION: 1935 Washington Ave.  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 40.5'  
 WELL DIAMETER: 2"  
 WELL DEPTH: 40'  
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SUPPLEMENTAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				ASPHALT & CONCRETE
	Mst	0	26	4			CL	CLAY: dark yellowish brown; low plasticity; 90% clay; 10% silt; occasional rootholes 0.5 mm; very stiff; no product odor.
	Mst	0	24	8			ML	SILT: light yellowish brown; low plasticity; 10% clay; 80% silt; 10% fine sand; very stiff; no product odor.
	Mst	0	26	14			SP	SAND: light yellowish brown; 10% fines; 90% fine sand; iron oxide staining; manganese oxide; medium dense; no product odor.
	Mst	0	32	18			CL	
	Mst	0	28	20				SANDY CLAY: dark brown; low plasticity; 60% clay; 10% silt; 25% fine sand; trace gravel <1/2"; organic matter; roots; very stiff; no product odor.
	Mst	0	26	24				@19': 70% clay; 10% sand; 20% gravel; very stiff; no product odor.
	Mst	0	28	26				@20': dark yellowish brown; low plasticity; 80% clay; 10% silt; 10% fine sand; very stiff; no product odor.
	Wt	0	40	28			SP	SAND: olive brown; trace silt; 45% fine sand; 50% medium to coarse sand; very stiff; no product odor.
	Wt	0	25	30			CL	SANDY CLAY: light yellowish brown; low plasticity; 60% clay; 10% silt; 30% fine sand; very stiff; no product odor.
	Wt	0	25	34			CL	CLAY: light olive brown; low plasticity; 85% clay; trace silt; trace fine to coarse sand; trace gravel; pervasive blue gray mottling; very stiff; no product odor.
	Wt	0	24	36				@40': light yellowish brown; low to moderate plasticity; 90% clay; trace silt; trace fine sand; 0.5mm rootholes; manganese oxide specks; trace gray mottling around rootholes; very stiff; no product odor.
				40				BOTTOM OF BORING AT 40.5'




GROUT

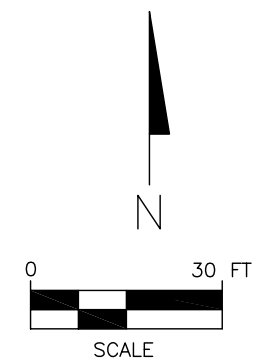
SAND

BENTONITE



**LEGEND:**

-  GROUNDWATER MONITORING WELL
-  SOIL BORING
-  SOIL SAMPLE LOCATION



MAP CREATED FROM SURVEYED COORDINATES PROVIDED BY MORROW SURVEYING (FEB.2007), AN EXTENDED SITE MAP BY PACIFIC ENVIRONMENTAL GROUP AND AERIAL PHOTOGRAPHY.

**FIGURE 2  
SITE PLAN**

76 SERVICE STATION NO. 5430  
1935 WASHINGTON AVENUE  
SAN LEANDRO, CALIFORNIA

PROJECT NO. C105430	PREPARED BY EW	DRAWN BY JH
DATE 12/16/08	REVIEWED BY DD	FILE NAME 76-5430

