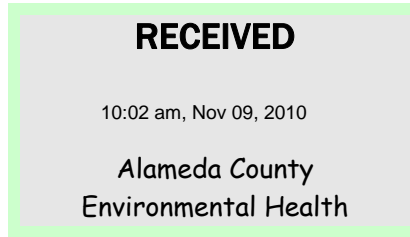




76 Broadway
Sacramento, California 95818



November 4, 2010

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

Re: Closure Summary Report
76 Station no. 3072
2445 Castro Valley Blvd.
Castro Valley, CA

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

November 4, 2010

Ms. Barbara Jakub
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

RE: SITE CLOSURE SUMMARY

76 Service Station No. 3072
2445 Castro Valley Rd
Castro Valley, California
Delta Project No.: C1Q3072069
ACEH Case No. RO# 2968



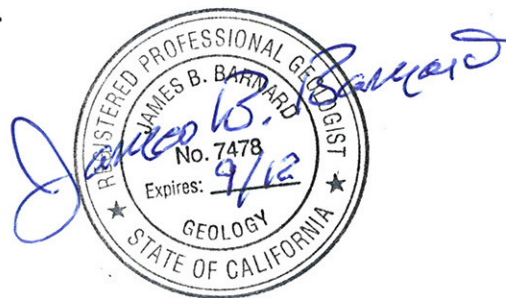
Dear Ms. Jakub

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) has prepared this Site Closure Summary (attached) for above referenced site. Due to declining or non-detect concentrations, COP and Delta request case closure for this site.

If there are any questions regarding this submittal, please call James Barnard at (916) 503-1279.

Sincerely,
Delta Consultants

James B. Barnard



James B. Barnard, P.G.
California Registered Professional Geologist No. 7478

Cc: Mr. Bill Borgh – ConocoPhillips (electronic copy only)

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: [November 4, 2010](#)

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: ConocoPhillips Service Station No. 3072		
Site Facility Address: 2445 Castro Valley Rd, Castro Valley, CA		
RB Case No.:	Local Case No.:	LOP Case No.: RO # 2968
URF Filing Date:	Geotracker ID: T0619794453	APN:
Responsible Parties	Addresses	Phone Numbers
Bill Borgh	76 Broadway, Sacramento, 95818	916-558-7612
Jagdish & Janki Moorjani	2445 Castro Valley Rd, Castro Valley	510-581-6700

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000	Gasoline	Removed	Nov89-Feb90
2	10,000	Gasoline	Removed	Nov89-Feb90
3	10,000	Gasoline	Removed	Nov89-Feb90
4	550	Waste Oil	Removed	Nov89-Feb90
5	12,000	Gasoline	In Place	Active
6	12,000	Gasoline	In Place	Active
7	10,000	Gasoline	In Place	Active
8	550	Waste Oil	In Place	Active
Piping			In Place	Active

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Leaking underground storage tanks, gasoline release.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? None	Number: None	Proper screened interval? N/A*
Highest GW Depth Below Ground Surface: 23.02	Lowest Depth: 11.69	Flow Direction: Southwest
Most Sensitive Current Use: Potential drinking water source.		

EXAMPLE:

* Wells MW-1 thru MW-5 installed in from Jan-Aug 1990, properly screened, destroyed in Jun 1993.

Summary of Production Wells in Vicinity: No production wells identified in area.	
Are drinking water wells affected? No (TRC 2006)	Aquifer Name: East Bay Plain Subbasin
Is surface water affected? No	Nearest SW Name: South Reservoir ~2100 ft SE
Off-Site Beneficial Use Impacts (Addresses/Locations): Bright World Preschool - 450 ft NE - 20613 Stanton Ave, Castro Valley 510-581-1580 Happiness Hill Preschool - 1050 ft SW - 20600 John Dr, Castro Valley 510-537-0773 Strobridge Elementary School - 1400 ft SE - 21400 Bedford Dr, Castro Valley 510-293-8576	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and GeoTracker, and LiveLink

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	3 x 10,000 Gal 1 x 550 Gal	Disposed – Unknown Location	Nov 1989 – Feb 1990
Piping	NA		
Free Product	NA		----
Soil	1800 cu yards	Disposed – Unknown Location	Nov 1989 – Feb 1990
Groundwater	NA		

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	120 ¹	480 ⁴	32 ²	ND<50
TPH (Diesel)	30 ¹	25 ⁴	NA	800
TPH (Motor Oil)	NA	NA	NA	NA
Oil and Grease	NA	NA	NA	NA
Benzene	0.46 ¹	ND<0.50 ⁴	4.2 ²	ND<0.50
Toluene	0.28 ¹	ND<0.50 ⁴	ND ²	ND<0.50
Ethylbenzene	0.70 ¹	1.1 ⁴	0.36 ²	<0.50
Xylenes	3.4 ¹	1.1 ⁴	1.1 ²	<0.50
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	^	^^	^^^	^^^
MTBE	*	**	***	****
Other (8240/8270)	NA	NA	NA	NA

^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn
 ^^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn
 ^^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn
 ^^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn

* NA ppm MTBE; NA ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and NA ppm 1,2-DCA
 ** 0.11⁴ ppm MTBE; 0.014⁴ ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and ND<0.50⁴ ppm 1,2-DCA
 *** NA ppm MTBE; NA ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and NA ppm 1,2-DCA
 **** 10³ ppm MTBE; 54³ ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and ND<0.50³ ppm 1,2-DCA

NOTES:

1. Max concentration from Composite samples collected during tank removal (KEI 1989)
2. Max Concentration from groundwater samples collected after initial installation of MW-1, MW-2, and MW-3 (KEI Apr 1990)
3. Max Concentration from GRAB groundwater samples collected during CPT assessment (TRC 2007)
4. Max Concentration from soil samples collected during baseline assessment (TRC 2005)

Site History and Description of Corrective Actions:

November 1989 through February 1990: Three 10,000 gallon USTs, one 550 gallon waste oil UST, and product piping were removed and replaced. The UST pits were over excavated to remove impacted soil (Kaprealian Engineering (KEI), 1990).

November 14, 1989: Six soil samples (A1, A2, B1, B2, C1, C2) were collected from below the fuel USTs and one soil sample (WO1) was collected from below the waste oil UST. Samples from beneath the gasoline USTs contained concentrations of total petroleum hydrocarbons as gasoline (TPH-g) from non-detection to 11 parts per million (ppm) and non-detection concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Concentrations of total petroleum hydrocarbons as diesel (TPH-d) were non-detect in the samples collected from below the diesel UST. The soil samples collected from beneath the waste oil tank contained reportable concentrations of TPH-g, metals, and 1,1-dichloroethene (1,1-DCE) and were non-detect for all other constituents analyzed (KEI, 1990).

November 16, 1989: Six sidewall soil samples (SW-1 through SW-6) and a grab groundwater sample were collected from the fuel UST. Samples SW-1 and SW-4 contained TPH-g concentrations of 140 ppm and 160 ppm, respectively. TPH-d was detected at a concentration of 24 ppm in sample SW-4 (KEI, 1990).

December 22, 1989: Eight sidewall soil samples (SW-1 (17), SW-2 (17), SW-3 (17), and SW-7 through SW-11) were collected after additional excavation of the UST pits. Maximum reported TPH-g concentrations were 1,500 ppm and 1,900 ppm (KEI).

January 18 and 19, 1990: Three 2-inch diameter monitoring wells (MW-1 through MW-3) were installed onsite (KEI, 1990).

February 14, 1990: Three soil samples (P1 through P3) were collected from the product pipeline trenches. Low to non-detect concentration of TPH-g and BTEX were detected with a maximum TPH-g concentration of 87 ppm (KEI, 1990).

March 9, 1990: Three sidewall samples (SW-B, SW-C, SW-D) were collected from the sidewalls of the waste oil UST pit. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 37 ppm (KEI, 1990).

April 24 and 25, 1990: Eight exploratory soil borings (EB-1 through EB-8) were drilled and soil samples collected. The borings were backfilled with neat cement. Low to non-detect concentrations of TPH-g and BTEX were detected with a maximum TPH-g concentration of 5 ppm (KEI, 1991).

August 13, 1990: Two 2-inch monitoring wells (MW4, MW-5) were installed. Soil samples from the monitoring wells pilot borings contained non-detect concentrations of TPHg and BTEX in all samples. Benzene was detected at a maximum concentration of 3.2 ppb (KEI, 1990).

June 15, 1993: Monitoring wells MW-1 through MW-5 were destroyed by KEI.

June 7, 2001: Gettler-Ryan Inc (GR) observed the removal of one hydraulic hoist from the site. A soil sample from 8.5 feet below ground surface (bgs) was reported to contain 1,200 milligrams per kilograms (mg/kg) total petroleum hydrocarbons as hydraulic fluid (TPH-hf) (GR, 2001).

October 2003: Site environmental consulting responsibilities were transferred to TRC.

January 24, 25, and 31, 2005: TRC conducted a Baseline Assessment which involved the advancement of six direct-push borings (SB-1 through SB-6) to assess the presence of

hydrocarbon affected soil and groundwater beneath the site. TPH-g was detected in two soil samples at a maximum concentration of 480 ppm in SB-1 at a depth of 8 feet bgs. Methyl tert butyl ether (MTBE) was detected in two soil samples at a maximum concentration of 0.11 ppm in SB-3 at a depth of 18 feet bgs. MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 ppb in boring SB-1.

January 31, 2006: TRC completed a sensitive receptor survey for the site. No wells or water bodies identified during the survey are believed to be near enough to the site or in the direct path of groundwater flow from the site to be considered sensitive receptors.

May 2007: TRC conducted an additional site assessment using Cone Penetrometer Test (CPT) equipment advancing CPT borings CPT-1, CPT-2, CPT-4, and CPT-5 onsite to depths of up to 55 feet bgs. TPH-d was detected in groundwater samples collected in all four borings, with a maximum concentration of 800 micrograms per liter (ug/L) in the groundwater sample collected from CPT-4. MTBE was in three of four borings with a maximum of 10 ug/L detected in CPT-4. TBA was detected only in CPT-2 at a maximum of 54 ug/L. No other analytes were detected during this investigation.


IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements:		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? Yes No		Date Recorded:
Monitoring Wells Decommissioned: Yes (1993)	Number Decommissioned: 5	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by:	Title: Hazardous Materials Specialist
Signature:	Date:
Approved by: 	Title: Supervising Hazardous Materials Specialist
Signature:	Date:

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name:	Title:
Notification Date:	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 04/15/1993	Date of Well Decommissioning Report: 06/26/1993	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 5	Number Retained: 0
Reason Wells Retained:		
Additional requirements for submittal of groundwater data from retained wells:		
ACEH Concurrence - Signature:	Date:	

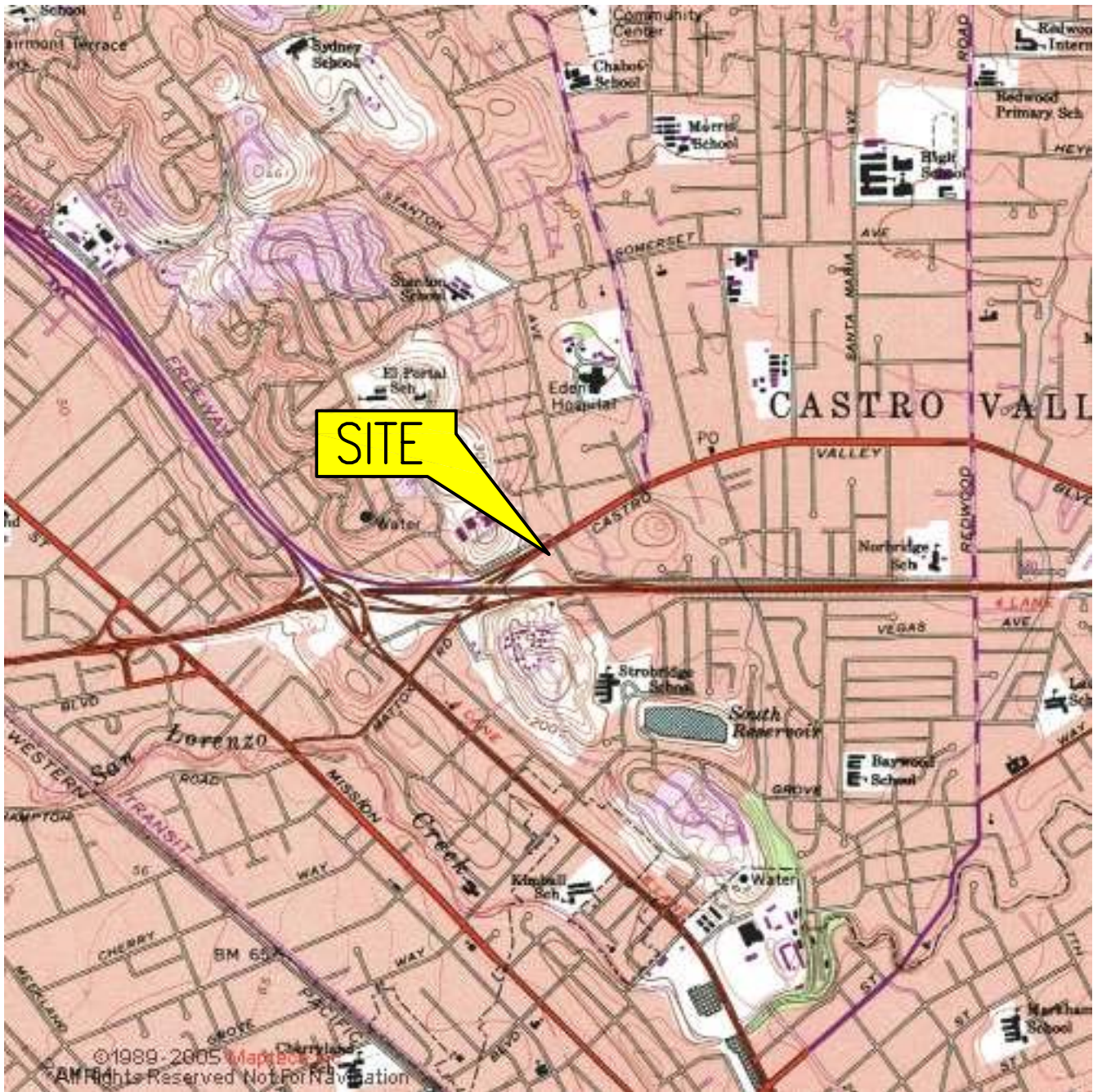
ATTACHMENTS:

- Attachment 1 – Site Vicinity Map (1 pp)
- Attachment 2 – Site Plan with Historical Sampling Locations (1 pp)
- Attachment 3 – KEI 1989 Soil Analyticals (6 pp)
- Attachment 4 – KEI Apr 1990 Groundwater Analyticals (2 pp)
- Attachment 5 – TRC 2005 Soil Analyticals (75 pp)
- Attachment 6 – TRC 2007 Groundwater Analyticals (12 pp)
- Attachment 7 – Historical Boring Logs (43 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

ATTACHMENT 1

Site Vicinity Map
(1 pp)



North

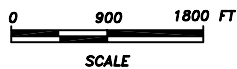


FIGURE 1

SITE LOCATION MAP

76 SERVICE STATION NO. 3072
2445 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

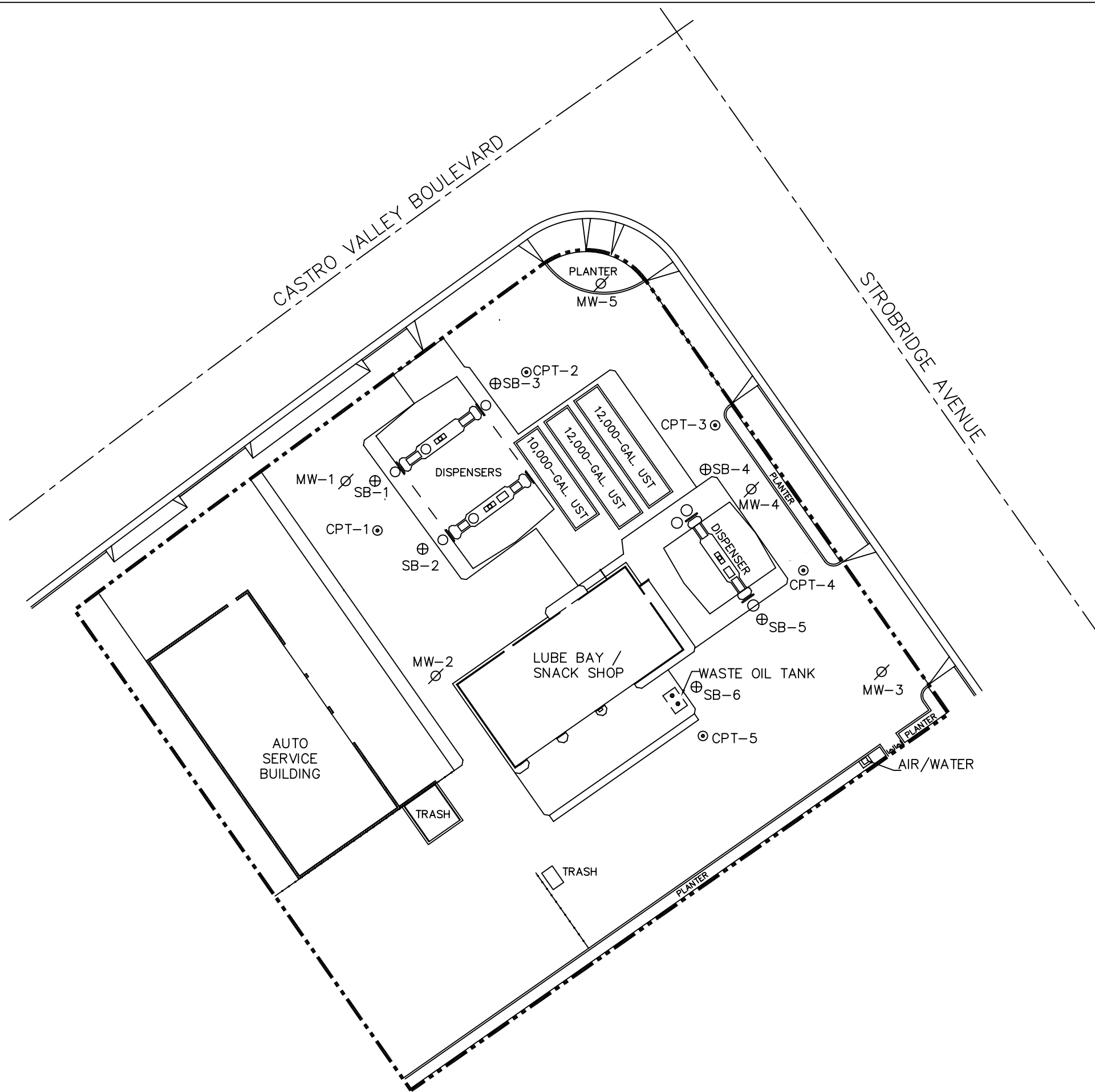
PROJECT NO. C103072	DRAWN BY JH 01/14/09
FILE NO. 3072-SiteLocator	PREPARED BY AB
REVISION NO.	REVIEWED BY JR



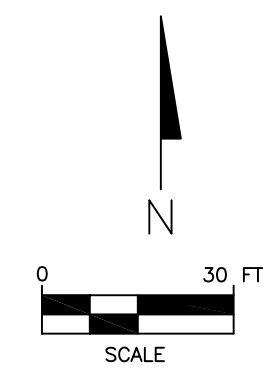
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SAN LEANDRO QUADRANGLE (1973)

ATTACHMENT 2

Site Plan with Historical Sampling Locations
(1 pp)



- LEGEND**
- ⊕ MW-7 PROPOSED MONITORING WELL CLUSTER LOCATION
 - ⊘ MW-1 DESTROYED MONITORING WELL (KEI, 1993)
 - ⊙ CPT-1 CPT BORING (TRC, 2007)
 - ⊕ SB-4 SOIL BORING
 - - - - - PROPERTY BOUNDARY



SOURCE: Client-provided site plan prepared by A&S Engineering, October 1997 and TRC.

FIGURE 2
SITE MAP WITH HISTORICAL SAMPLING LOCATIONS

76 SERVICE STATION NO. 3072
2445 CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

PROJECT NO. C103072	PREPARED BY NP	DRAWN BY JH	
DATE 02/03/10	REVIEWED BY LH	FILE NAME 76-3072	

ATTACHMENT 3

KEI 1989 Soil Analyticals
(6 pp)

KEI-J89-1106.R1
December 5, 1989

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Results in ppm)
(Samples collected on November 28, 1989)

<u>Sample</u>	<u>TPH as Diesel</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl-benzene</u>
Comp A	---	120	0.46	ND	3.0	0.20
Comp B	---	54	ND	ND	0.67	0.10
Comp C	---	11	ND	ND	0.29	ND
Comp D	---	3.2	ND	ND	ND	ND
Comp E	---	3.7	ND	ND	ND	ND
Comp F	---	5.2	ND	ND	ND	ND
Comp G	---	28	ND	ND	0.27	0.14
Comp H	---	7.5	ND	ND	ND	ND
Comp I	---	65	ND	0.16	0.58	0.24
Comp J	---	4.4	ND	ND	ND	ND
Comp K	---	6.5	ND	ND	ND	ND
Comp L	---	ND	ND	ND	ND	ND
Comp M	---	2.6	ND	ND	ND	ND
Comp N	---	9.1	ND	ND	ND	ND
Comp O	---	13	ND	ND	ND	ND
Comp P	---	22	0.068	ND	ND	ND
Comp Q	15	21	ND	ND	ND	ND
Comp R	16	9.1	0.054	ND	ND	ND
Comp S	---	5.5	ND	ND	ND	ND
Comp T	7.1	4.7	ND	ND	ND	ND
Comp U	30	4.2	ND	ND	ND	ND
Comp V	---	8.9	ND	ND	ND	ND
Comp W	14	5.9	ND	ND	ND	ND
Comp X	18	4.4	ND	ND	ND	ND
Comp Y	21	8.4	ND	ND	ND	ND
Comp Z	24	13	ND	ND	ND	ND
Comp AA	---	21	ND	ND	ND	ND
Comp BB	---	2.8	ND	ND	ND	ND
Comp CC	---	30	ND	0.12	3.2	0.34
Comp DD	---	1.7	ND	ND	ND	ND
Comp EE	---	5.2	ND	ND	ND	ND
Comp FF	---	16	ND	ND	ND	ND
Comp GG	---	21	ND	ND	ND	ND
Comp HH	---	17	ND	ND	ND	ND
Comp II	---	12	ND	ND	ND	ND
Comp JJ	---	35	ND	0.28	3.4	0.70
Detection Limits	1.0	1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kapreallan Engineering, Inc. P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kapreallan, P.E.	Client Project ID: Unocal, Castro Valley, Strohbridge Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 911-3548 A-B	Sampled: Nov 28, 1989 Received: Nov 28, 1989 Analyzed: Nov 29, 1989 Reported: Nov 30, 1989
--------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
9113548 A-B	Composite A	120	0.48	N.D.	0.20	3.0
9113549 A-B	Composite B	64	N.D.	N.D.	0.10	0.67
9113550 A-B	Composite C	11	N.D.	N.D.	N.D.	0.29
9113551 A-B	Composite D	3.2	N.D.	N.D.	N.D.	N.D.
9113552 A-B	Composite E	3.7	N.D.	N.D.	N.D.	N.D.
9113553 A-B	Composite F	5.2	N.D.	N.D.	N.D.	N.D.
9113554 A-B	Composite G	28	N.D.	N.D.	0.14	0.27
9113555 A-B	Composite H	7.5	N.D.	N.D.	N.D.	N.D.
9113556 A-B	Composite I	65	N.D.	0.16	0.24	0.58
9113557 A-B	Composite J	4.4	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.05	0.1	0.1	0.1
-------------------	-----	------	-----	-----	-----

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Project Manager

9113584.KEI <2>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kapreallan Engineering, Inc.	Client Project ID: Unocal, Castro Valley, Strohbridge	Sampled: Nov 28, 1989
P.O. Box 913	Matrix Descript: Soil	Received: Nov 28, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Nov 29, 1989
Attention: Mardo Kapreallan, P.E.	First Sample #: 911-3558 A-B	Reported: Nov 30, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
9113558 A-B	Composite K	6.5	N.D.	N.D.	N.D.	N.D.
9113559 A-B	Composite L	N.D.	N.D.	N.D.	N.D.	N.D.
9113560 A-B	Composite M	2.6	N.D.	N.D.	N.D.	N.D.
9113561 A-B	Composite N	9.1	N.D.	N.D.	N.D.	N.D.
9113562 A-B	Composite O	13	N.D.	N.D.	N.D.	N.D.
9113563 A-B	Composite P	22	0.068	N.D.	N.D.	N.D.
9113564 A-B	Composite Q	21	N.D.	N.D.	N.D.	N.D.
9113565 A-B	Composite R	9.1	0.054	N.D.	N.D.	N.D.
9113566 A-B	Composite S	5.5	N.D.	N.D.	N.D.	N.D.
9113567 A-B	Composite T	4.7	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.05	0.1	0.1	0.1
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Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Castro Valley, Stobridge	Sampled: Nov 28, 1989
P.O. Box 913	Matrix Descript: Soil	Received: Nov 28, 1989
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Nov 29, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #: 911-3568 A-B	Reported: Nov 30, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
9113568 A-B	Composite U	4.2	N.D.	N.D.	N.D.	N.D.
9113569 A-B	Composite V	8.9	N.D.	N.D.	N.D.	N.D.
9113570 A-B	Composite W	5.9	N.D.	N.D.	N.D.	N.D.
9113571 A-B	Composite X	4.4	N.D.	N.D.	N.D.	N.D.
9113572 A-B	Composite Y	8.4	N.D.	N.D.	N.D.	N.D.
9113573 A-B	Composite Z	13	N.D.	N.D.	N.D.	N.D.
9113574 A-B	Composite AA	21	N.D.	N.D.	N.D.	N.D.
9113575 A-B	Composite BB	2.8	N.D.	N.D.	N.D.	N.D.
9113576 A-B	Composite CC	30	N.D.	0.12	0.34	3.2
9113577 A-B	Composite DD	1.7	N.D.	N.D.	N.D.	N.D.

Detection Limits:	1.0	0.05	0.1	0.1	0.1
-------------------	-----	------	-----	-----	-----

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega

Belinda C. Vega
Project Manager

9113564.KEI <4>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kapreallan Engineering, Inc. P.O. Box 913 Benicia, CA 94510 Attention: Mardo Kapreallan, P.E.	Client Project ID: Unocal, Castro Valley, Strobbridge Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 911-3578 A-B	Sampled: Nov 28, 1989 Received: Nov 28, 1989 Analyzed: Nov 29, 1989 Reported: Nov 30, 1989
--------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
9113578 A-B	Composite EE	5.2	N.D.	N.D.	N.D.	N.D.
9113579 A-B	Composite FF	16	N.D.	N.D.	N.D.	N.D.
9113580 A-B	Composite GG	21	N.D.	N.D.	N.D.	N.D.
9113581 A-B	Composite HH	17	N.D.	N.D.	N.D.	N.D.
9113582 A-B	Composite II	12	N.D.	N.D.	N.D.	N.D.
9113583 A-B	Composite JJ	35	N.D.	0.28	0.70	3.4

Detection Limits:	1.0	0.05	0.1	0.1	0.1
-------------------	-----	------	-----	-----	-----

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Project Manager

9113564.KEI <5>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kapreallan Engineering, Inc.	Client Project ID: Unocal, Castro Valley, Stobridge	Sampled: Nov 28, 1989
P.O. Box 913	Matrix Descript: Soil	Received: Nov 28, 1989
Benicia, CA 94510	Analysis Method: EPA 3550/8015	Extracted: Nov 29, 1989
Attention: Mardo Kapreallan, P.E.	First Sample #: 911-3564 A-B	Analyzed: Nov 29, 1989
		Reported: Nov 30, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
9113564 A-B	Composite Q	15
9113565 A-B	Composite R	16
9113567 A-B	Composite T	7.1
9113568 A-B	Composite U	30
9113570 A-B	Composite W	14
9113571 A-B	Composite X	18
9113572 A-B	Composite Y	21
9113573 A-B	Composite Z	24

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega

Belinda C. Vega
Project Manager

9113564.KEI <1>

ATTACHMENT 4

KEI Apr 1990 Groundwater Analyticals
(2 pp)

KEI-J89-1106.R7
April 12, 1990

TABLE 3

SUMMARY OF LABORATORY ANALYSES
WATER

(Samples collected on March 22, 1990)

<u>Sample #</u>	<u>Depth to Water (feet)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
MW1	8.85	32	4.2	ND	1.1	0.36
MW2	9.00	ND	ND	ND	ND	ND
MW3	7.35	ND	ND	ND	ND	ND
MW4	NA	ND	ND	ND	ND	ND
Detection Limits		30	0.3	0.3	0.3	0.3

ND = Non-detectable.

NA = Not applicable.

NOTE: Sample MW4 is a duplicate of sample MW2.

Results in parts per billion (ppb), unless otherwise indicated.



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Castro Valley, 2445 Castro Valley	Sampled: Mar 22, 1990
P.O. Box 996	Matrix Descript: Water	Received: Mar 22, 1990
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Mar 22, 1990
Attention: Mardo Kaprealian, P.E.	First Sample #: 003-3236 A-B	Reported: Mar 23, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons	Benzene	Toluene	Ethyl Benzene	Xylenes
		$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)	$\mu\text{g/L}$ (ppb)
0033236 A-B	MW1	32	4.2	N.D.	0.36	1.1
0033237 A-B	MW2	N.D.	N.D.	N.D.	N.D.	N.D.
0033238 A-B	MW3	N.D.	N.D.	N.D.	N.D.	N.D.
0033239 A-B	MW4	N.D.	N.D.	N.D.	N.D.	N.D.

Detection Limits:

30

0.30

0.30

0.30

0.30

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Project Manager

33236.KEI <1>

ATTACHMENT 5

TRC 2005 Soil Analyticals
(75 pp)

Table 1

RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
76 Station # 3072
2445 Castro Valley Blvd, Castro Valley, California

Sample Number	Sample Date	Depth (fbg)	TPH-D	TPPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1, 2-DCA	EDB	Ethanol	Total Lead	Oil & Grease
			(mg/kg) EPA 8015	(mg/kg) EPA 8260B	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1 @ 8'	1/24/2005	8.0	--	480	<0.50	<0.50	1.1	1.1	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--	--
SB-1 @ 25.5'	1/24/2005	25.5	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.013	0.074	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-2 @ 12'	1/24/2005	12.0	--	<1.0	<0.0050	<0.0050	0.043	0.021	0.014	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-2 @ 24'	1/24/2005	24.0	--	<1.0	<0.0050	<0.0050	<0.0050	0.011	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-3 @ 18'	1/25/2005	18.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.11	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-4 @ 8'	1/25/2005	8.0	25	470	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--	--
SB-4 @ 50'	1/25/2005	50.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-5 @ 23'	1/31/2005	23.0	2.1	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-6 @ 10'	1/31/2005	10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.4	670
SB-6 @ 50'	1/31/2005	50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.7	<50
Composite	1/25/2005	na	5.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	7.5	

Notes:

TPH-D	= total petroleum hydrocarbon as diesel	1,2 DCA	= 1,2-dichloroethane
TPPH	= total purgeable petroleum hydrocarbons	EDB	= ethylene dibromide
TBA	= tertiary butyl alcohol	fbg	= feet below grade
MTBE	= methyl tertiary butyl ether	mg/kg	= milligrams per kilogram
DIPE	= di-isopropyl ether	--	= not analyzed, measured, or collected
ETBE	= ethyl tertiary butyl ether	na	= not applicable
TAME	= tertiary amyl methyl ether		

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
COMPOSITE	01/25/2005 19:30	Soil	12

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3050B	Test(s): 6010B
Sample ID: COMPOSITE	Lab ID: 2005-01-0746 - 12
Sampled: 01/25/2005 19:30	Extracted: 1/28/2005 11:52
Matrix: Soil	QC Batch#: 2005/01/28-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.5	1.0	mg/Kg	1.00	01/31/2005 11:19	

Total Lead

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3050B Test(s): 6010B
Method Blank **Soil** **QC Batch # 2005/01/28-05.15**
 MB: 2005/01/28-05.15-025 Date Extracted: 01/28/2005 11:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/31/2005 10:19	

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike

Soil

QC Batch # 2005/01/28-05.15

LCS 2005/01/28-05.15-026

Extracted: 01/28/2005

Analyzed: 01/31/2005 10:24

LCSD 2005/01/28-05.15-027

Extracted: 01/28/2005

Analyzed: 01/31/2005 10:28

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	104	105	100.0	104.0	105.0	1.0	80-120	20		

Diesel (C9-C24)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-3	01/25/2005 11:10	Water	8

Diesel (C9-C24)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3511	Test(s): 8015M
Sample ID: SB-3	Lab ID: 2005-01-0746 - 8
Sampled: 01/25/2005 11:10	Extracted: 2/2/2005 12:38
Matrix: Water	QC Batch#: 2005/02/02-09.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	02/03/2005 23:08	
Surrogate(s) o-Terphenyl	98.5	78-177	%	1.00	02/03/2005 23:08	

Diesel (C9-C24)

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report					
Prep(s): 3511		Test(s): 8015M			
Method Blank		Water		QC Batch # 2005/02/02-09.10	
MB: 2005/02/02-09.10-001		Date Extracted: 02/02/2005 12:38			
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	02/03/2005 23:38	
Surrogates(s) o-Terphenyl	100.0	78-177	%	02/03/2005 23:38	

Diesel (C9-C24)

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
Laboratory Control Spike			Water			QC Batch # 2005/02/02-09.10				
LCS	2005/02/02-09.10-002		Extracted: 02/02/2005			Analyzed: 02/04/2005 00:07				
LCSD	2005/02/02-09.10-003		Extracted: 02/02/2005			Analyzed: 02/04/2005 00:36				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	473	523	680	69.6	76.9	10.0	60-150	25		
Surrogates(s) o-Terphenyl	1.09	1.22	1.25	87.4	97.4		78-177	0		

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-3 @ 18	01/25/2005 09:10	Soil	7
SB-4 @ 8	01/25/2005 12:55	Soil	9
COMPOSITE	01/25/2005 19:30	Soil	12

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: SB-3 @ 18	Lab ID: 2005-01-0746 - 7
Sampled: 01/25/2005 09:10	Extracted: 2/2/2005 11:06
Matrix: Soil	QC Batch#: 2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/03/2005 08:32	
Surrogate(s) o-Terphenyl	72.0	60-130	%	1.00	02/03/2005 08:32	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SB-4 @ 8	Lab ID:	2005-01-0746 - 9
Sampled:	01/25/2005 12:55	Extracted:	2/2/2005 11:06
Matrix:	Soil	QC Batch#:	2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	25	1.0	mg/Kg	1.00	02/03/2005 21:19	Q2
Surrogate(s) o-Terphenyl	85.2	60-130	%	1.00	02/03/2005 21:19	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	COMPOSITE	Lab ID:	2005-01-0746 - 12
Sampled:	01/25/2005 19:30	Extracted:	2/2/2005 11:06
Matrix:	Soil	QC Batch#:	2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	5.0	1.0	mg/Kg	1.00	02/03/2005 23:31	Q2
Surrogate(s) o-Terphenyl	85.5	60-130	%	1.00	02/03/2005 23:31	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2005/02/02-6B.10-001

Soil

Test(s): 8015M

QC Batch # 2005/02/02-6B.10

Date Extracted: 02/02/2005 11:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/02/2005 16:49	
Surrogates(s) o-Terphenyl	68.2	60-130	%	02/02/2005 16:49	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2005/02/02-6B.10

LCS 2005/02/02-6B.10-002

Extracted: 02/02/2005

Analyzed: 02/02/2005 17:15

LCSD 2005/02/02-6B.10-003

Extracted: 02/02/2005

Analyzed: 02/02/2005 17:41

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	30.5	32.9	41.5	73.5	78.9	7.1	60-130	25		
Surrogates(s) o-Terphenyl	17.2	18.0	20.0	86.1	90.0		60-130			

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1	01/24/2005 09:00	Water	3
SB-2	01/24/2005 12:30	Water	6
SB-3	01/25/2005 11:10	Water	8
SB-4	01/25/2005 18:50	Water	11

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1	Lab ID:	2005-01-0746 - 3
Sampled:	01/24/2005 09:00	Extracted:	2/7/2005 12:09
Matrix:	Water	QC Batch#:	2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 12:09	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethylbenzene	0.77	0.50	ug/L	1.00	02/07/2005 12:09	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 12:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 12:09	
Methyl tert-butyl ether (MTBE)	87	0.50	ug/L	1.00	02/07/2005 12:09	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 12:09	
EDB	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethanol	ND	50	ug/L	1.00	02/07/2005 12:09	
Surrogate(s)						
1,2-Dichloroethane-d4	99.6	73-130	%	1.00	02/07/2005 12:09	
Toluene-d8	98.7	81-114	%	1.00	02/07/2005 12:09	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-2	Lab ID: 2005-01-0746 - 6
Sampled: 01/24/2005 12:30	Extracted: 2/7/2005 13:17
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 13:17	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Total xylenes	1.2	1.0	ug/L	1.00	02/07/2005 13:17	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 13:17	
Methyl tert-butyl ether (MTBE)	0.68	0.50	ug/L	1.00	02/07/2005 13:17	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 13:17	
EDB	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethanol	ND	50	ug/L	1.00	02/07/2005 13:17	
Surrogate(s)						
1,2-Dichloroethane-d4	98.4	73-130	%	1.00	02/07/2005 13:17	
Toluene-d8	97.2	81-114	%	1.00	02/07/2005 13:17	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-3	Lab ID: 2005-01-0746 - 8
Sampled: 01/25/2005 11:10	Extracted: 2/7/2005 13:39
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 13:39	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 13:39	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 13:39	
Methyl tert-butyl ether (MTBE)	5.1	0.50	ug/L	1.00	02/07/2005 13:39	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 13:39	
EDB	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethanol	ND	50	ug/L	1.00	02/07/2005 13:39	
Surrogate(s)						
1,2-Dichloroethane-d4	99.7	73-130	%	1.00	02/07/2005 13:39	
Toluene-d8	100.8	81-114	%	1.00	02/07/2005 13:39	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-4	Lab ID: 2005-01-0746 - 11
Sampled: 01/25/2005 18:50	Extracted: 2/7/2005 14:02
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 14:02	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 14:02	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 14:02	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 14:02	
EDB	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethanol	ND	50	ug/L	1.00	02/07/2005 14:02	
Surrogate(s)						
1,2-Dichloroethane-d4	100.4	73-130	%	1.00	02/07/2005 14:02	
Toluene-d8	97.4	81-114	%	1.00	02/07/2005 14:02	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/02/07-2A.66

MB: 2005/02/07-2A.66-013

Date Extracted: 02/07/2005 09:13

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	02/07/2005 09:13	
Benzene	ND	0.5	ug/L	02/07/2005 09:13	
Toluene	ND	0.5	ug/L	02/07/2005 09:13	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 09:13	
Total xylenes	ND	1.0	ug/L	02/07/2005 09:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/07/2005 09:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 09:13	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	02/07/2005 09:13	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	02/07/2005 09:13	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	02/07/2005 09:13	
1,2-DCA	ND	0.5	ug/L	02/07/2005 09:13	
EDB	ND	0.5	ug/L	02/07/2005 09:13	
Ethanol	ND	50	ug/L	02/07/2005 09:13	
Surrogates(s)					
1,2-Dichloroethane-d4	99.6	73-130	%	02/07/2005 09:13	
Toluene-d8	96.8	81-114	%	02/07/2005 09:13	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/02/07-2A.66

LCS 2005/02/07-2A.66-050

Extracted: 02/07/2005

Analyzed: 02/07/2005 08:50

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.4		25	85.6			65-165	20		
Benzene	22.8		25	91.2			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	481		500	96.2			73-130			
Toluene-d8	488		500	97.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/02/07-2A.66

SB-1 >> MS

Lab ID: 2005-01-0746 - 003

MS: 2005/02/07-2A.66-032

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:32

Dilution: 1.00

MSD: 2005/02/07-2A.66-054

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:54

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	112	115	86.7	25	101.2	113.2	11.2	65-165	20		
Benzene	24.9	26.3	ND	25	99.6	105.2	5.5	69-129	20		
Toluene	30.6	31.7	ND	25	122.4	126.8	3.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	450	489		500	90.0	97.8		73-130			
Toluene-d8	490	509		500	98.0	101.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1 @ 25.5	01/24/2005 17:50	Soil	2
SB-2 @ 12	01/24/2005 08:40	Soil	4
SB-2 @ 24	01/24/2005 12:15	Soil	5
SB-3 @ 18	01/25/2005 09:10	Soil	7
SB-4 @ 50	01/25/2005 19:20	Soil	10
COMPOSITE	01/25/2005 19:30	Soil	12

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-1 @ 25.5	Lab ID: 2005-01-0746 - 2
Sampled: 01/24/2005 17:50	Extracted: 2/7/2005 11:24
Matrix: Soil	QC Batch#: 2005/02/07-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 11:24	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
tert-Butyl alcohol (TBA)	0.013	0.010	mg/Kg	1.00	02/07/2005 11:24	
Methyl tert-butyl ether (MTBE)	0.074	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 11:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 11:24	
Surrogate(s)						
1,2-Dichloroethane-d4	104.2	72-124	%	1.00	02/07/2005 11:24	
Toluene-d8	92.6	75-116	%	1.00	02/07/2005 11:24	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-2 @ 12	Lab ID:	2005-01-0746 - 4
Sampled:	01/24/2005 08:40	Extracted:	2/5/2005 13:34
Matrix:	Soil	QC Batch#:	2005/02/05-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/05/2005 13:34	
Benzene	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Toluene	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Ethyl benzene	0.043	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Total xylenes	0.021	0.0050	mg/Kg	1.00	02/05/2005 13:34	
tert-Butyl alcohol (TBA)	0.014	0.010	mg/Kg	1.00	02/05/2005 13:34	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/05/2005 13:34	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
EDB	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Ethanol	ND	0.1	mg/Kg	1.00	02/05/2005 13:34	
Surrogate(s)						
1,2-Dichloroethane-d4	103.9	72-124	%	1.00	02/05/2005 13:34	
Toluene-d8	94.4	75-116	%	1.00	02/05/2005 13:34	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-2 @ 24	Lab ID: 2005-01-0746 - 5
Sampled: 01/24/2005 12:15	Extracted: 2/7/2005 11:47
Matrix: Soil	QC Batch#: 2005/02/07-1A.66
Analysis Flag: N1 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 11:47	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Total xylenes	0.011	0.0050	mg/Kg	1.00	02/07/2005 11:47	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/07/2005 11:47	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 11:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 11:47	
Surrogate(s)						
1,2-Dichloroethane-d4	106.2	72-124	%	1.00	02/07/2005 11:47	
Toluene-d8	94.1	75-116	%	1.00	02/07/2005 11:47	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-3 @ 18	Lab ID: 2005-01-0746 - 7
Sampled: 01/25/2005 09:10	Extracted: 2/7/2005 23:03
Matrix: Soil	QC Batch#: 2005/02/07-3A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 23:03	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/07/2005 23:03	
Methyl tert-butyl ether (MTBE)	0.11	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 23:03	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 23:03	
Surrogate(s)						
1,2-Dichloroethane-d4	114.7	72-124	%	1.00	02/07/2005 23:03	
Toluene-d8	93.7	75-116	%	1.00	02/07/2005 23:03	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-4 @ 50	Lab ID: 2005-01-0746 - 10
Sampled: 01/25/2005 19:20	Extracted: 2/8/2005 13:49
Matrix: Soil	QC Batch#: 2005/02/08-1A.66
Analysis Flag: N1 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/08/2005 13:49	
Benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Toluene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/08/2005 13:49	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/08/2005 13:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
EDB	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Ethanol	ND	0.1	mg/Kg	1.00	02/08/2005 13:49	
Surrogate(s)						
1,2-Dichloroethane-d4	116.9	72-124	%	1.00	02/08/2005 13:49	
Toluene-d8	82.6	75-116	%	1.00	02/08/2005 13:49	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: COMPOSITE	Lab ID: 2005-01-0746 - 12
Sampled: 01/25/2005 19:30	Extracted: 2/8/2005 14:11
Matrix: Soil	QC Batch#: 2005/02/08-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/08/2005 14:11	
Benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Toluene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/08/2005 14:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/08/2005 14:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
EDB	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Ethanol	ND	0.1	mg/Kg	1.00	02/08/2005 14:11	
Surrogate(s)						
1,2-Dichloroethane-d4	110.6	72-124	%	1.00	02/08/2005 14:11	
Toluene-d8	96.0	75-116	%	1.00	02/08/2005 14:11	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/05-1A.66

MB: 2005/02/05-1A.66-055

Date Extracted: 02/05/2005 11:55

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/05/2005 11:55	
Benzene	ND	0.005	mg/Kg	02/05/2005 11:55	
Toluene	ND	0.005	mg/Kg	02/05/2005 11:55	
Ethyl benzene	ND	0.005	mg/Kg	02/05/2005 11:55	
Total xylenes	ND	0.005	mg/Kg	02/05/2005 11:55	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/05/2005 11:55	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/05/2005 11:55	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/05/2005 11:55	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/05/2005 11:55	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/05/2005 11:55	
1,2-DCA	ND	0.005	mg/Kg	02/05/2005 11:55	
EDB	ND	0.005	mg/Kg	02/05/2005 11:55	
Ethanol	ND	0.100	mg/Kg	02/05/2005 11:55	
Surrogates(s)					
1,2-Dichloroethane-d4	107.2	72-124	%	02/05/2005 11:55	
Toluene-d8	110.8	75-116	%	02/05/2005 11:55	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/07-1A.66

MB: 2005/02/07-1A.66-027

Date Extracted: 02/07/2005 08:27

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/07/2005 08:27	
Benzene	ND	0.005	mg/Kg	02/07/2005 08:27	
Toluene	ND	0.005	mg/Kg	02/07/2005 08:27	
Ethyl benzene	ND	0.005	mg/Kg	02/07/2005 08:27	
Total xylenes	ND	0.005	mg/Kg	02/07/2005 08:27	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/07/2005 08:27	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/07/2005 08:27	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/07/2005 08:27	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/07/2005 08:27	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/07/2005 08:27	
1,2-DCA	ND	0.005	mg/Kg	02/07/2005 08:27	
EDB	ND	0.005	mg/Kg	02/07/2005 08:27	
Ethanol	ND	0.100	mg/Kg	02/07/2005 08:27	
Surrogates(s)					
1,2-Dichloroethane-d4	100.4	72-124	%	02/07/2005 08:27	
Toluene-d8	96.8	75-116	%	02/07/2005 08:27	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/07-3A.66

MB: 2005/02/07-3A.66-005

Date Extracted: 02/07/2005 18:05

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/07/2005 18:05	
Benzene	ND	0.005	mg/Kg	02/07/2005 18:05	
Toluene	ND	0.005	mg/Kg	02/07/2005 18:05	
Ethyl benzene	ND	0.005	mg/Kg	02/07/2005 18:05	
Total xylenes	ND	0.005	mg/Kg	02/07/2005 18:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/07/2005 18:05	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/07/2005 18:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/07/2005 18:05	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/07/2005 18:05	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/07/2005 18:05	
1,2-DCA	ND	0.005	mg/Kg	02/07/2005 18:05	
EDB	ND	0.005	mg/Kg	02/07/2005 18:05	
Ethanol	ND	0.100	mg/Kg	02/07/2005 18:05	
Surrogates(s)					
1,2-Dichloroethane-d4	98.6	72-124	%	02/07/2005 18:05	
Toluene-d8	96.4	75-116	%	02/07/2005 18:05	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/08-1A.66

MB: 2005/02/08-1A.66-027

Date Extracted: 02/08/2005 07:27

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/08/2005 07:27	
Benzene	ND	0.005	mg/Kg	02/08/2005 07:27	
Toluene	ND	0.005	mg/Kg	02/08/2005 07:27	
Ethyl benzene	ND	0.005	mg/Kg	02/08/2005 07:27	
Total xylenes	ND	0.005	mg/Kg	02/08/2005 07:27	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/08/2005 07:27	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/08/2005 07:27	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/08/2005 07:27	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/08/2005 07:27	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/08/2005 07:27	
1,2-DCA	ND	0.005	mg/Kg	02/08/2005 07:27	
EDB	ND	0.005	mg/Kg	02/08/2005 07:27	
Ethanol	ND	0.100	mg/Kg	02/08/2005 07:27	
Surrogates(s)					
1,2-Dichloroethane-d4	103.0	72-124	%	02/08/2005 07:27	
Toluene-d8	96.4	75-116	%	02/08/2005 07:27	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2005/02/05-1A.66

LCS 2005/02/05-1A.66-033

Extracted: 02/05/2005

Analyzed: 02/05/2005 11:33

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0478		0.05	95.6			65-165	20		
Benzene	0.0404		0.05	80.8			69-129	20		
Toluene	0.0505		0.05	101.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	527		500	105.4			72-124			
Toluene-d8	544		500	108.8			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

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Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
Laboratory Control Spike			Soil			QC Batch # 2005/02/07-1A.66				
LCS	2005/02/07-1A.66-049		Extracted: 02/07/2005			Analyzed: 02/07/2005 09:49				
LCSD										

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0370		0.05	74.0			65-165	20		
Benzene	0.0371		0.05	74.2			69-129	20		
Toluene	0.0469		0.05	93.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	496		500	99.2			72-124			
Toluene-d8	514		500	102.8			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
Laboratory Control Spike			Soil			QC Batch # 2005/02/07-3A.66				
LCS	2005/02/07-3A.66-043		Extracted: 02/07/2005			Analyzed: 02/07/2005 17:43				
LCSD										

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0452		0.05	90.4			65-165	20		
Benzene	0.0413		0.05	82.6			69-129	20		
Toluene	0.0532		0.05	106.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	486		500	97.2			72-124			
Toluene-d8	500		500	100.0			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord
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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
Laboratory Control Spike			Soil			QC Batch # 2005/02/08-1A.66				
LCS	2005/02/08-1A.66-003		Extracted: 02/08/2005			Analyzed: 02/08/2005 07:04				
LCSD										

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0450		0.05	90.0			65-165	20		
Benzene	0.0454		0.05	90.8			69-129	20		
Toluene	0.0563		0.05	112.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	478		500	95.6			72-124			
Toluene-d8	490		500	98.0			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2005/02/05-1A.66

MS/MSD

Lab ID: 2005-02-0085 - 001

MS: 2005/02/05-1A.66-004

Extracted: 02/05/2005

Analyzed: 02/05/2005 15:04

Dilution: 1.00

MSD: 2005/02/05-1A.66-026

Extracted: 02/05/2005

Analyzed: 02/05/2005 15:26

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0385	0.0409	ND	0.047348	81.3	84.1	3.4	65-165	20		
Benzene	0.0391	0.0380	ND	0.047348	82.6	78.1	5.6	69-129	20		
Toluene	0.132	0.0948	0.134	0.047348	-4.2	-80.6	-180	70-130	20	M5	M5,R1
Surrogate(s)											
1,2-Dichloroethane-d4	510	479		500	102.0	95.8		72-124			
Toluene-d8	535	505		500	107.0	101.0		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2005/02/07-1A.66

MS/MSD

Lab ID: 2005-01-0653 - 003

MS: 2005/02/07-1A.66-040

Extracted: 02/07/2005

Analyzed: 02/07/2005 10:40

Dilution: 1.00

MSD: 2005/02/07-1A.66-002

Extracted: 02/07/2005

Analyzed: 02/07/2005 11:02

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0627	0.0541	ND	0.049603	126.4	112.1	12.0	65-165	20		
Benzene	0.0617	0.0560	ND	0.049603	124.4	116.0	7.0	69-129	20		
Toluene	0.0561	0.0531	ND	0.049603	113.1	110.0	2.8	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	694	638		500	138.8	127.6		72-124		S7	S7
Toluene-d8	517	514		500	103.4	102.8		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

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Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
Matrix Spike (MS / MSD)	Soil	QC Batch # 2005/02/07-3A.66	
MS/MSD	Lab ID: 2005-01-0756 - 011		
MS: 2005/02/07-3A.66-040	Extracted: 02/07/2005	Analyzed: 02/07/2005 19:40	
		Dilution: 200.00	
MSD: 2005/02/07-3A.66-003	Extracted: 02/07/2005	Analyzed: 02/07/2005 20:03	
		Dilution: 200.00	

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0754	0.0825	0.0382	0.049115	75.7	89.1	16.3	65-165	20		
Benzene	0.0436	0.0446	ND	0.049115	88.8	89.7	1.0	69-129	20		
Toluene	0.0515	0.0494	ND	0.049115	104.9	99.4	5.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	480	470		500	96.0	94.0		72-124			
Toluene-d8	503	488		500	100.6	97.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2005/02/08-1A.66

MS/MSD

Lab ID: 2005-02-0085 - 007

MS: 2005/02/08-1A.66-004

Extracted: 02/08/2005

Analyzed: 02/08/2005 13:04

Dilution: 200.00

MSD: 2005/02/08-1A.66-026

Extracted: 02/08/2005

Analyzed: 02/08/2005 13:26

Dilution: 200.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0361	0.0410	ND	0.049505	72.9	83.3	13.3	65-165	20		
Benzene	0.0373	0.0425	ND	0.049505	75.3	86.4	13.7	69-129	20		
Toluene	0.0961	0.0762	0.0397	0.049505	113.9	74.2	42.2	70-130	20		R1
Surrogate(s)											
1,2-Dichloroethane-d4	489	498		500	97.8	99.6		72-124			
Toluene-d8	493	493		500	98.6	98.6		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Legend and Notes

Analysis Flag

N1

Internal standard out of range.

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1 @ 8	01/24/2005 14:15	Soil	1
SB-4 @ 8	01/25/2005 12:55	Soil	9

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-1 @ 8	Lab ID: 2005-01-0746 - 1
Sampled: 01/24/2005 14:15	Extracted: 2/7/2005 16:16
Matrix: Soil	QC Batch#: 2005/02/04-3A.66
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	480	50	mg/Kg	1.00	02/07/2005 16:16	
Benzene	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Toluene	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Ethyl benzene	1.1	0.50	mg/Kg	1.00	02/07/2005 16:16	
Total xylenes	1.1	0.50	mg/Kg	1.00	02/07/2005 16:16	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	02/07/2005 16:16	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	02/07/2005 16:16	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
1,2-DCA	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
EDB	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Ethanol	ND	25	mg/Kg	1.00	02/07/2005 16:16	
Surrogate(s)						
1,2-Dichloroethane-d4	102.2	53-129	%	1.00	02/07/2005 16:16	
Toluene-d8	111.8	47-136	%	1.00	02/07/2005 16:16	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-4 @ 8	Lab ID: 2005-01-0746 - 9
Sampled: 01/25/2005 12:55	Extracted: 2/5/2005 21:25
Matrix: Soil	QC Batch#: 2005/02/04-3A.66
Analysis Flag: L2 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	470	50	mg/Kg	1.00	02/05/2005 21:25	
Benzene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Toluene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Ethyl benzene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Total xylenes	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	02/05/2005 21:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	02/05/2005 21:25	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
1,2-DCA	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
EDB	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Ethanol	ND	25	mg/Kg	1.00	02/05/2005 21:25	
Surrogate(s)						
1,2-Dichloroethane-d4	113.4	53-129	%	1.00	02/05/2005 21:25	
Toluene-d8	104.3	47-136	%	1.00	02/05/2005 21:25	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/04-3A.66

MB: 2005/02/04-3A.66-015

Date Extracted: 02/05/2005 01:15

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	mg/Kg	02/05/2005 01:15	
Benzene	ND	0.5	mg/Kg	02/05/2005 01:15	
Toluene	ND	0.50	mg/Kg	02/05/2005 01:15	
Ethyl benzene	ND	0.50	mg/Kg	02/05/2005 01:15	
Total xylenes	ND	0.50	mg/Kg	02/05/2005 01:15	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	02/05/2005 01:15	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	02/05/2005 01:15	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	02/05/2005 01:15	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	02/05/2005 01:15	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	02/05/2005 01:15	
1,2-DCA	ND	0.50	mg/Kg	02/05/2005 01:15	
EDB	ND	0.50	mg/Kg	02/05/2005 01:15	
Ethanol	ND	25	mg/Kg	02/05/2005 01:15	
Surrogates(s)					
1,2-Dichloroethane-d4	122.8	53-129	%	02/05/2005 01:15	
Toluene-d8	107.6	47-136	%	02/05/2005 01:15	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2005/02/04-3A.66

LCS 2005/02/04-3A.66-030

Extracted: 02/05/2005

Analyzed: 02/05/2005 00:30

LCSD 2005/02/04-3A.66-052

Extracted: 02/05/2005

Analyzed: 02/05/2005 00:52

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9.70	10.3	10	97.0	103.0	6.0	69-129	20		
Toluene	10.9	11.7	10	109.0	117.0	7.1	70-130	20		
Methyl tert-butyl ether (MTBE)	8.13	9.09	10	81.3	90.9	11.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	299	293	250	119.6	117.2		53-129			
Toluene-d8	293	290	250	117.2	116.0		47-136			

Gas/BTEXFuel Oxygenates by 8260B (High Level)

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

TRC/Alton Geoscience-Concord

February 15, 2005

1590 Solano Way, Suite A
Concord, CA 94520

Attn.: Keith Woodburne

Project#: 41050001FA20

Project: Conoco Phillips #3072

Site: 2445 Castro Valley Blvd., Castro Valley

Attached is our report for your samples received on 02/01/2005 16:00

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/18/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-6@10	01/31/2005 11:25	Soil	2
SB-6@50	01/31/2005 17:30	Soil	3

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SB-6@10	Lab ID:	2005-02-0090 - 2
Sampled:	01/31/2005 11:25	Extracted:	2/4/2005 11:31
Matrix:	Soil	QC Batch#:	2005/02/04-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.4	1.0	mg/Kg	1.00	02/07/2005 10:15	

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SB-6@50	Lab ID:	2005-02-0090 - 3
Sampled:	01/31/2005 17:30	Extracted:	2/4/2005 11:31
Matrix:	Soil	QC Batch#:	2005/02/04-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.7	1.0	mg/Kg	1.00	02/07/2005 13:30	

Total Lead

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3050B

Method Blank

MB: 2005/02/04-03.15-011

Soil

Test(s): 6010B

QC Batch # 2005/02/04-03.15

Date Extracted: 02/04/2005 11:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	02/07/2005 08:42	

Total Lead

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
Laboratory Control Spike			Soil			QC Batch # 2005/02/04-03.15				
LCS	2005/02/04-03.15-012		Extracted: 02/04/2005			Analyzed: 02/07/2005 08:45				
LCSD	2005/02/04-03.15-013		Extracted: 02/04/2005			Analyzed: 02/07/2005 08:48				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	94.1	88.0	100.0	94.1	88.0	6.7	80-120	20		

Oil & Grease (Total) by EPA 1664A

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-6@10	01/31/2005 11:25	Soil	2
SB-6@50	01/31/2005 17:30	Soil	3

Oil & Grease (Total) by EPA 1664A

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 1664A	Test(s): 1664A
Sample ID: SB-6@10	Lab ID: 2005-02-0090 - 2
Sampled: 01/31/2005 11:25	Extracted: 2/9/2005 00:00
Matrix: Soil	QC Batch#: 2005/02/09-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	670	50	mg/Kg	1.00	02/09/2005	

Oil & Grease (Total) by EPA 1664A

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 1664A	Test(s): 1664A
Sample ID: SB-6@50	Lab ID: 2005-02-0090 - 3
Sampled: 01/31/2005 17:30	Extracted: 2/9/2005 00:00
Matrix: Soil	QC Batch#: 2005/02/09-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	02/09/2005	

Oil & Grease (Total) by EPA 1664A

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 1664A

Method Blank

MB: 2005/02/09-01.23-001

Soil

Test(s): 1664A

QC Batch # 2005/02/09-01.23

Date Extracted: 02/09/2005

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	02/09/2005	

Oil & Grease (Total) by EPA 1664A

TRC/Alton Geoscience-Concord
Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 1664A						Test(s): 1664A				
Laboratory Control Spike			Soil			QC Batch # 2005/02/09-01.23				
LCS	2005/02/09-01.23-002		Extracted: 02/09/2005			Analyzed: 02/09/2005				
LCSD	2005/02/09-01.23-003		Extracted: 02/09/2005			Analyzed: 02/09/2005				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	752	746	800	94.2	93.3	1.0	79-114	20		

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-5@23	01/31/2005 09:04	Soil	1

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	SB-5@23	Lab ID:	2005-02-0090 - 1
Sampled:	01/31/2005 09:04	Extracted:	2/11/2005 07:29
Matrix:	Soil	QC Batch#:	2005/02/11-2A.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.1	1.0	mg/Kg	1.00	02/11/2005 17:23	Q2
Surrogate(s) o-Terphenyl	78.2	60-130	%	1.00	02/11/2005 17:23	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Method Blank

MB: 2005/02/11-2A.10-001

Soil

Test(s): 8015M

QC Batch # 2005/02/11-2A.10

Date Extracted: 02/11/2005 07:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/11/2005 14:38	
Surrogates(s) o-Terphenyl	76.4	60-130	%	02/11/2005 14:38	

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 3550/8015M

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2005/02/11-2A.10

LCS 2005/02/11-2A.10-002

Extracted: 02/11/2005

Analyzed: 02/11/2005 16:40

LCSD 2005/02/11-2A.10-003

Extracted: 02/11/2005

Analyzed: 02/11/2005 17:06

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	33.9	33.5	41.2	82.3	81.1	1.5	60-130	25		
Surrogates(s) o-Terphenyl	19.0	19.0	20.0	95.1	95.2		60-130			

Diesel

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-5@23	01/31/2005 09:04	Soil	1

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-5@23	Lab ID: 2005-02-0090 - 1
Sampled: 01/31/2005 09:04	Extracted: 2/11/2005 13:06
Matrix: Soil	QC Batch#: 2005/02/11-1A.66
Analysis Flag: N1 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/11/2005 13:06	
Benzene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Toluene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/11/2005 13:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/11/2005 13:06	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
EDB	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Ethanol	ND	0.1	mg/Kg	1.00	02/11/2005 13:06	
Surrogate(s)						
1,2-Dichloroethane-d4	132.5	72-124	%	1.00	02/11/2005 13:06	S7
Toluene-d8	89.7	75-116	%	1.00	02/11/2005 13:06	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/02/11-1A.66

MB: 2005/02/11-1A.66-024

Date Extracted: 02/11/2005 08:24

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/11/2005 08:24	
Benzene	ND	0.005	mg/Kg	02/11/2005 08:24	
Toluene	ND	0.005	mg/Kg	02/11/2005 08:24	
Ethyl benzene	ND	0.005	mg/Kg	02/11/2005 08:24	
Total xylenes	ND	0.005	mg/Kg	02/11/2005 08:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/11/2005 08:24	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/11/2005 08:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/11/2005 08:24	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/11/2005 08:24	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/11/2005 08:24	
1,2-DCA	ND	0.005	mg/Kg	02/11/2005 08:24	
EDB	ND	0.005	mg/Kg	02/11/2005 08:24	
Ethanol	ND	0.100	mg/Kg	02/11/2005 08:24	
Surrogates(s)					
1,2-Dichloroethane-d4	109.0	72-124	%	02/11/2005 08:24	
Toluene-d8	104.6	75-116	%	02/11/2005 08:24	

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A
Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike				Soil			QC Batch # 2005/02/11-1A.66			
LCS	2005/02/11-1A.66-001			Extracted: 02/11/2005			Analyzed: 02/11/2005 08:01			
LCSD										

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0467		0.05	93.4			65-165	20		
Benzene	0.0470		0.05	94.0			69-129	20		
Toluene	0.0574		0.05	114.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	517		500	103.4			72-124			
Toluene-d8	501		500	100.2			75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report											
Prep(s): 5030B						Test(s): 8260B					
Matrix Spike (MS / MSD)				Soil				QC Batch # 2005/02/11-1A.66			
SB-5@23 >> MS						Lab ID: 2005-02-0090 - 001					
MS: 2005/02/11-1A.66-028			Extracted: 02/11/2005			Analyzed: 02/11/2005 13:28			Dilution: 1.00		
MSD: 2005/02/11-1A.66-051			Extracted: 02/11/2005			Analyzed: 02/11/2005 13:51			Dilution: 1.00		

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0585	0.0588	ND	0.05	117.0	117.6	0.5	65-165	20		
Benzene	0.0569	0.0552	ND	0.05	113.8	110.4	3.0	69-129	20		
Toluene	0.0611	0.0573	ND	0.05	122.2	114.6	6.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	567	589		500	113.4	117.8		72-124			
Toluene-d8	485	499		500	97.0	99.8		75-116			

Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Legend and Notes

Analysis Flag

N1

Internal standard out of range.

Result Flag

S7

Surrogate recoveries higher than acceptance limits.

ATTACHMENT 6

TRC 2007 Groundwater Analyticals
(12 pp)

Table 1
GRAB GROUNDWATER ANALYTICAL RESULTS
76 Service Station #3072
2445 Castro Valley Boulevard, Castro Valley, CA

Sample ID	Date Sampled	Sample Depth (fbg)	TPH-d	TPPH	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	TAME	TBA	DIPE	EDB	ETBE	1,2-DCA	Ethanol
			EPA 8015	EPA Method 8260B												
Concentrations in micrograms per liter (µg/L)																
Shallow Water-Bearing Zone																
CPT-2	5/3/2007	36	500	<50	<0.50	<0.50	<0.50	<0.50	6.3	<0.50	54	<0.50	<0.50	<0.50	<0.50	<250
CPT-5	5/3/2007	22	280	<50	<0.50	<0.50	<0.50	<0.50	5.2	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<250
Deeper Water-Bearing Zone																
CPT-1	5/2/2007	55	490	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<250
CPT-4	5/2/2007	51	800	<50	<0.50	<0.50	<0.50	<0.50	10	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<250
Notes:																
TPH-d = total petroleum hydrocarbons as diesel (C12-C24)									EDB = 1,2-dibromoethane							
TPPH = total purgable petroleum hydrocarbons (C6-C12)									ETBE = ethyl tertiary butyl ether							
MTBE = methyl tertiary butyl ether									1,2-DCA = 1,2-dichloroethane							
TAME = tertiary amyl methyl ether									fbg = feet below grade							
TBA = tertiary butyl alcohol									-- = not analysed							
DIPE = di-isopropyl ether									N/A = not applicable							

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1590 Solano Way, Suite A
Concord, CA 94520

Project: 3072
Project Number: [none]
Project Manager: Keith Woodburne

Reported: 05/18/2007 10:30

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0705306-01												
Client Sample Name:	3072, CPT-1, CPT-1, 5/2/2007 9:08:00AM, J. Kearns												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Toluene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	76 - 114 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443		
Toluene-d8 (Surrogate)	95.6	%	88 - 110 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:40	SDU	MS-V10	1	BQE0443		

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Project: 3072
Project Number: [none]
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Reported: 05/18/2007 10:30

Total Petroleum Hydrocarbons

BCL Sample ID: 0705306-01		Client Sample Name: 3072, CPT-1, CPT-1, 5/2/2007 9:08:00AM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	490	ug/L	50		Luft/TPHd	05/10/07	05/17/07 07:05	MRW	GC-5	1	BQE1132	ND	
Tetracosane (Surrogate)	55.4	%	42 - 125 (LCL - UCL)		Luft/TPHd	05/10/07	05/17/07 07:05	MRW	GC-5	1	BQE1132		

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Reported: 05/18/2007 10:30

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0705306-02												
Client Sample Name:	3072, CPT-4, CPT-4, 5/2/2007 1:27:00PM, J. Kearns												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Methyl t-butyl ether	10	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Toluene	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane-d4 (Surrogate)	95.3	%	76 - 114 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443		
Toluene-d8 (Surrogate)	96.4	%	88 - 110 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	05/08/07	05/08/07 23:58	SDU	MS-V10	1	BQE0443		

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Total Petroleum Hydrocarbons

BCL Sample ID: 0705306-02		Client Sample Name: 3072, CPT-4, CPT-4, 5/2/2007 1:27:00PM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	800	ug/L	50		Luft/TPHd	05/10/07	05/17/07 07:19	MRW	GC-5	1	BQE1132	ND	
Tetracosane (Surrogate)	68.5	%	42 - 125 (LCL - UCL)		Luft/TPHd	05/10/07	05/17/07 07:19	MRW	GC-5	1	BQE1132		

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0705306-03		Client Sample Name:	3072, CPT-2, CPT-2, 5/3/2007 7:25:00AM, J. Kearns									
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Methyl t-butyl ether	6.3	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Toluene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
t-Butyl alcohol	54	ug/L	10		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	76 - 114 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443		
Toluene-d8 (Surrogate)	93.3	%	88 - 110 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:16	SDU	MS-V10	1	BQE0443		

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Project: 3072
Project Number: [none]
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Reported: 05/18/2007 10:30

Total Petroleum Hydrocarbons

BCL Sample ID: 0705306-03		Client Sample Name: 3072, CPT-2, CPT-2, 5/3/2007 7:25:00AM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	500	ug/L	50		Luf/TPHd	05/10/07	05/17/07 07:32	MRW	GC-5	1	BQE1132	ND	
Tetracosane (Surrogate)	65.8	%	42 - 125 (LCL - UCL)		Luf/TPHd	05/10/07	05/17/07 07:32	MRW	GC-5	1	BQE1132		

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Project: 3072
Project Number: [none]
Project Manager: Keith Woodburne

Reported: 05/18/2007 10:30

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0705306-04		Client Sample Name: 3072, CPT-5, CPT-5, 5/3/2007 9:05:00AM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Methyl t-butyl ether	5.2	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Toluene	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Ethanol	ND	ug/L	250		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443	ND	
1,2-Dichloroethane-d4 (Surrogate)	97.3	%	76 - 114 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443		
Toluene-d8 (Surrogate)	94.4	%	88 - 110 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	05/08/07	05/09/07 00:34	SDU	MS-V10	1	BQE0443		

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Project: 3072
Project Number: [none]
Project Manager: Keith Woodburne

Reported: 05/18/2007 10:30

Total Petroleum Hydrocarbons

BCL Sample ID: 0705306-04		Client Sample Name: 3072, CPT-5, CPT-5, 5/3/2007 9:05:00AM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	280	ug/L	50		Luft/TPHd	05/10/07	05/17/07 07:46	MRW	GC-5	1	BQE1132	ND	
Tetracosane (Surrogate)	80.1	%	42 - 125 (LCL - UCL)		Luft/TPHd	05/10/07	05/17/07 07:46	MRW	GC-5	1	BQE1132		

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1590 Solano Way, Suite A
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Project: 3072
Project Number: [none]
Project Manager: Keith Woodburne

Reported: 05/18/2007 10:30

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0705306-05		Client Sample Name:	3072, COMB, COMB, 5/3/2007 9:30:00AM, J. Kearns										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
1,2-Dibromoethane	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
1,2-Dichloroethane	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Ethylbenzene	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Methyl t-butyl ether	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Toluene	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Total Xylenes	ND	mg/kg	0.050		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
t-Butyl alcohol	ND	mg/kg	0.25		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Diisopropyl ether	ND	mg/kg	0.025		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Ethanol	ND	mg/kg	5.0		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	1.0		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486	ND	A01,Z1	
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	70 - 121 (LCL - UCL)		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486			
Toluene-d8 (Surrogate)	97.7	%	81 - 117 (LCL - UCL)		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486			
4-Bromofluorobenzene (Surrogate)	84.6	%	74 - 121 (LCL - UCL)		EPA-8260	05/08/07	05/11/07 22:56	CAW	MS-V3	5	BQE0486			

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Project: 3072
Project Number: [none]
Project Manager: Keith Woodburne

Reported: 05/18/2007 10:30

Total Petroleum Hydrocarbons

BCL Sample ID: 0705306-05		Client Sample Name: 3072, COMB, COMB, 5/3/2007 9:30:00AM, J. Kearns											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	1400		Luf/TPHd	05/11/07	05/17/07 09:50	MRW	GC-5	136.36	BQE1039	ND	
Tetracosane (Surrogate)	102	%	58 - 120 (LCL - UCL)		Luf/TPHd	05/11/07	05/17/07 09:50	MRW	GC-5	136.36	BQE1039		

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Project: 3072
Project Number: [none]
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Reported: 05/18/2007 10:30

Total Concentrations (TTLC)

BCL Sample ID: 0705306-05	Client Sample Name: 3072, COMB, COMB, 5/3/2007 9:30:00AM, J. Kearns												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Lead	8.3	mg/kg	5.0		EPA-6010B	05/08/07	05/08/07 21:17	JCC	TJA61E	1.923	BQE0461	ND	A01

ATTACHMENT 7

Historical Boring Logs
(43 pp)

B O R I N G L O G

Project No. KEI-P89-1106	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>Dr. Brown</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 1/18/90
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement Clay, sand, and gravel: fill
			CH	Clay, high plasticity, stiff, moist, black.
5/7/14		5		Color change at 5 feet to dark gray 10-15% sand.
			N/A	Shale bedrock, weathered, locally hard, fractured, slightly moist, olive brown, clayey inside fractures.
16/33/43				
		10		
22/46/ 50-5"				Shale bedrock at 13 feet, as above, wet.
		15		
				Color change at 20 feet to very dark gray.
		20		

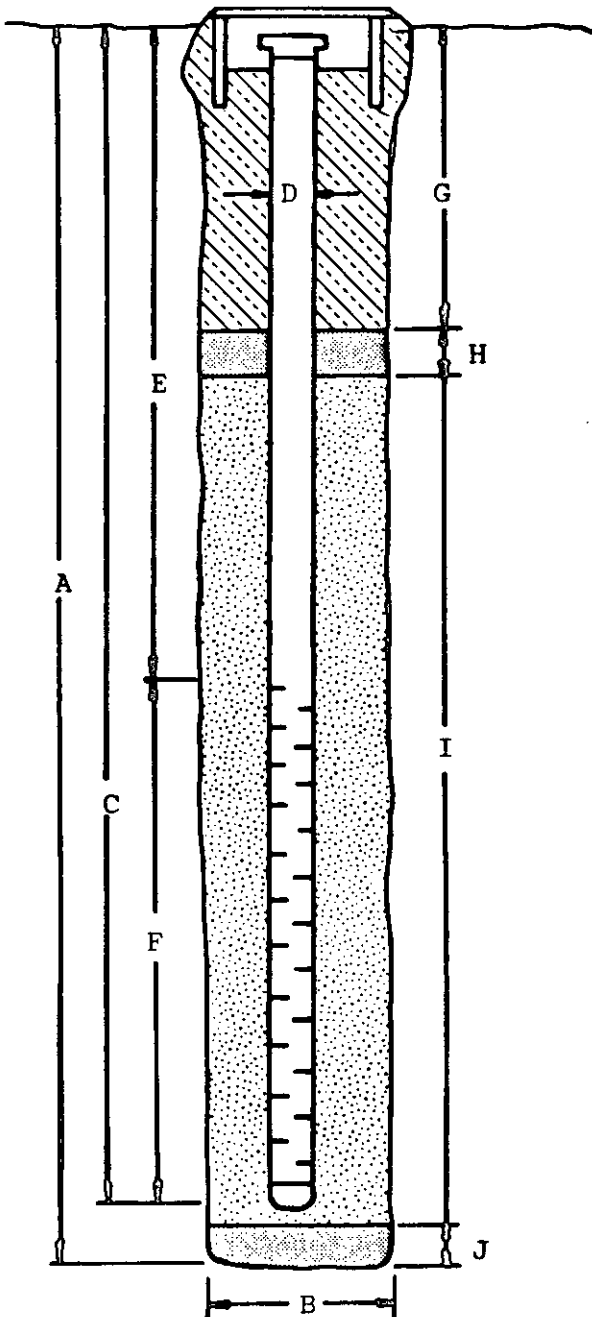
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Castro Valley BORING/WELL NO. MW1

PROJECT NUMBER: KEI-P89-1106

WELL PERMIT NO.: _____

Flush-mounted Well Cover



A. Total Depth: 25.5'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 25.5'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"
ID = 2.067"

E. Depth to Perforations: 8'

F. Perforated Length: 17.5'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 4'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 19.5'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P89-1106	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>D. L. Brown</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 1/18/90
Boring No. MW2	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement
				Silty clay, high plasticity, stiff, moist, very dark gray, locally gravelly, gravel to 1/2".
6/8/10		5	CH	Clay, high plasticity, with silt, 10-15% sand, stiff, moist, dark greenish gray, locally cemented, with gravel below 6 feet.
16/25/26			GC	Clayey gravel with sand, dense, moist, dark greenish gray, mottled with olive brown below 7.5 feet.
4/7/13		10	CH	Sandy clay, moderate to high plasticity, 10-15% gravel, stiff, friable, moist, yellowish brown.
8/11/15				Very stiff at 12 feet, occasional gravel, gravel is olive brown shale.
7/13/22				
13/20/28		15		
10/19/21			GC	Clayey gravel with sand, dense, moist, yellowish brown, gravel is shale, dark brown within clay.
13/19/23 50-2"	▼	20		At 20 feet, varied gravel, some serpentine. No recovery at 20.5 feet

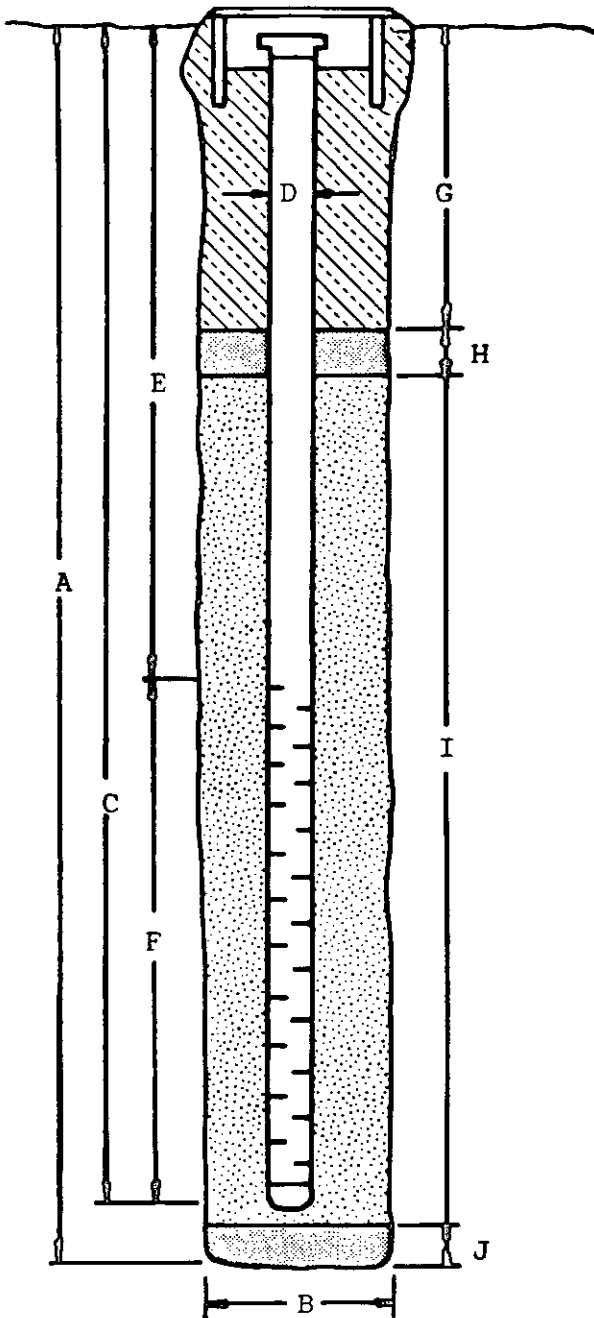
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Castro Valley BORING/WELL NO. MW2

PROJECT NUMBER: KEI-P89-1106

WELL PERMIT NO.: _____

Flush-mounted Well Cover



A. Total Depth: 30'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 25'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 2'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 26'

Pack Material: RMC Lonestar Sand

Size: #3

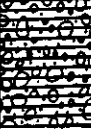
J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P89-1106	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>Dr R. Brown</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 1/19/90
Boring No. MW3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		25		Clayey gravel with sand, as above, ocasionally grading to gravelly clay, as above.
		30		
		35		
		40		
				TOTAL DEPTH: 22'

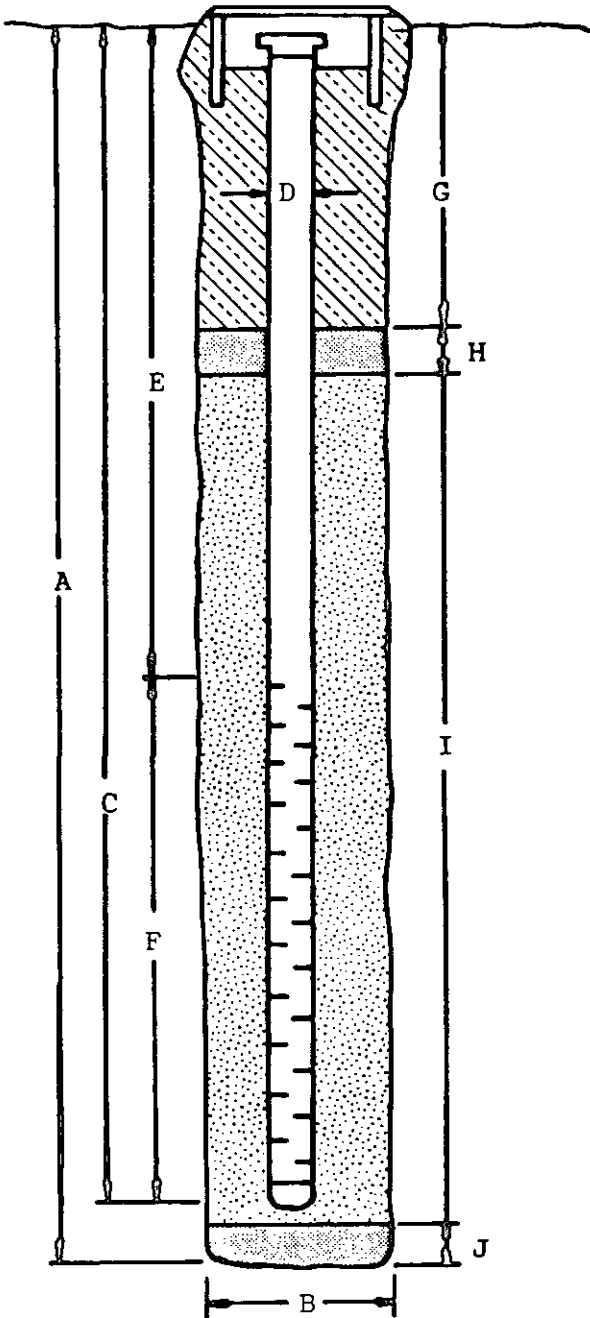
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Castro Valley BORING/WELL NO. MW3

PROJECT NUMBER: KEI-P89-1106

WELL PERMIT NO.: _____

Flush-mounted Well Cover



A. Total Depth: 22'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 22'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 5'

F. Perforated Length: 17'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 2'

Seal Material: Concrete

H. Seal: 18'

Seal Material: Bentonite

I. Gravel Pack: _____

Pack Material: RMC Lonestar Sand

Size: #3


J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

B O R I N G L O G

Project No. KEI-P89-1106	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>ORB</i>
Project Name Unocal-Castro Valley	Well Head Elevation N/A	Date Drilled 8/13/90
Boring No. MW4	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
		0		Asphalt concrete over clayey sand and gravel base
			CH	Clay, trace to 5% coarse-grained sand trace of gravel to 1/2 inch dia. moist, hard, dark gray, 5% orangish brown banding
6/11/24		5	CL/CH	Clay, trace to 5% sand, trace to 10% caliche, light dive gray to greenish gray, moist, hard
				----- Bedrock -----
50		10	N/A	Shale, moderately hard, fractured, very weathered, decomposed and clayey, wet below 10', olive brown
		15		
22/50-5"		20		Shale, moist, clayey, moderately hard, medium gray to olive gray

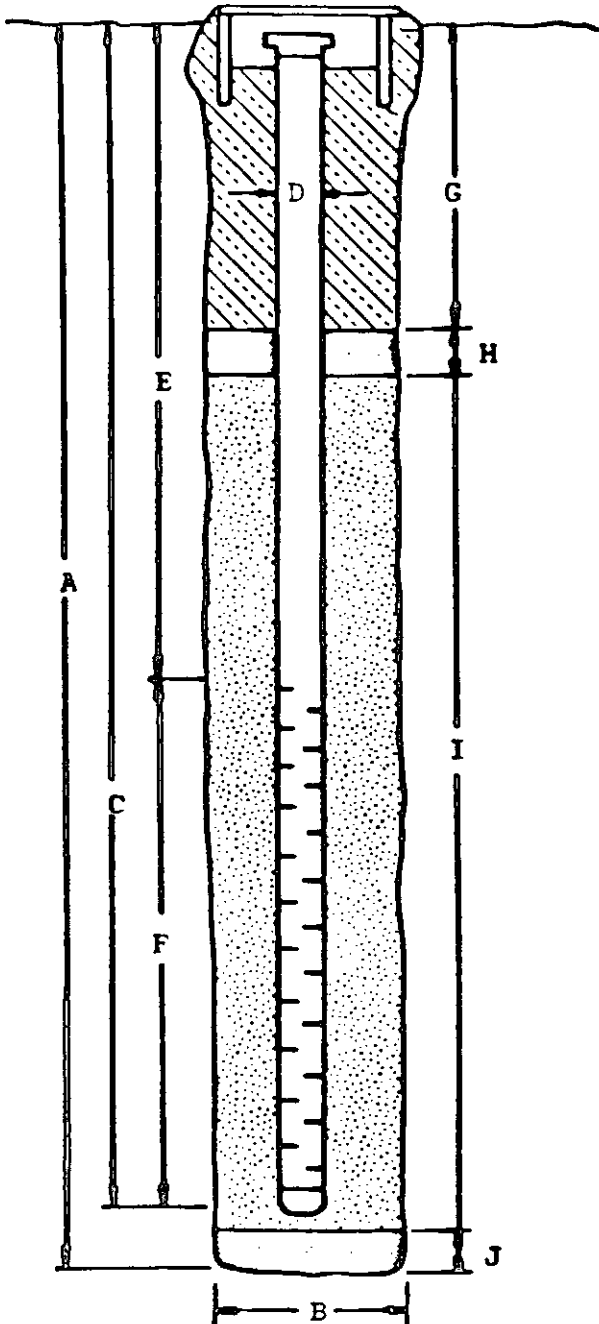
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal Castro Valley BORING/WELL NO. MW4

PROJECT NUMBER: KEI-P89-1106

WELL PERMIT NO.: _____

Flush-mounted Well Cover




- A. Total Depth: 23.5'
- B. Boring Diameter*: 9"
Drilling Method: Hollow Stem Auger
- C. Casing Length: 21'
Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 6'
- F. Perforated Length: 15'
Perforation Type: Machined Slot
Perforation Size: 0.020"
- G. Surface Seal: 4'
Seal Material: Concrete
- H. Seal: 18'
Seal Material: Bentonite
- I. Gravel Pack: 17'
Pack Material: RMC Lonestar Sand
Size: #3
- J. Bottom Seal: None
Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P89-1106	Boring & Casing Diameter 9" 2"	Logged By W.W. <i>DRB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 8/13/90
Boring No. MW5	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement over clayey sand and and gravel base
			CL/ CH	Clay with gravel, gravel angular to 1 1/8 dia., trace sand and caliche, moist, firm, greenish gray. Clay, trace sand, moist, firm, very dark gray.
7/14/15		5		Clay, trace fine sand, moist, very stiff, light olive gray to greenish gray trace to 10% caliche with nodules to 1/2 dia.
			N/A	Bedrock
50				Clayey shale, trace caliche(?), moist, olive gray, orangish brown, trace greenish gray (clay) highly weather- ed, decomposed
16/24/30		10		
				Clayey shale, trace organic matter, moist, olive gray to olive brown with trace of orange-brown, moderately hard, less weathered than above
36/40/45				
				
35/50		15		
				Clayey shale, slightly weathered and decomposed, saturated, moderately hard, olive gray
40/50-5"		20		

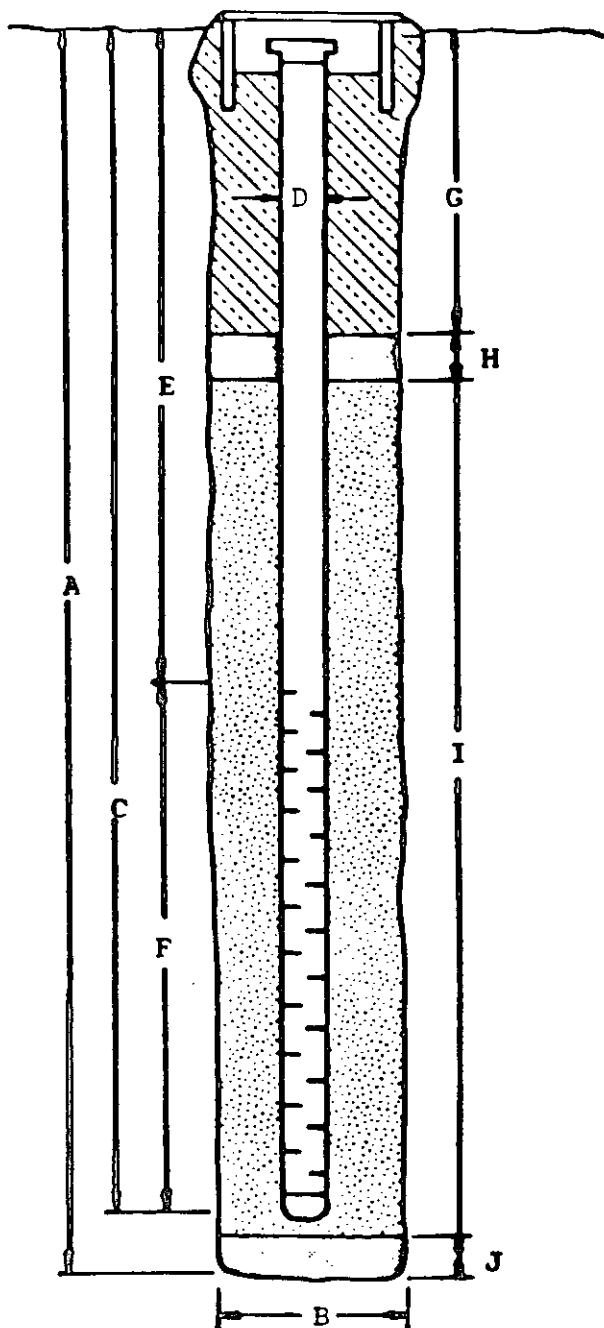
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal-Castro Valley 2445 C.V. Blvd. BORING/WELL NO. MW5

PROJECT NUMBER: KEI-P89-1106

WELL PERMIT NO.: _____

Flush-mounted Well Cover



A. Total Depth: 24'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem
Auger

C. Casing Length: 23.5'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 8.5'

F. Perforated Length: 15'

Perforation Type: Machined
Slot

Perforation Size: 0.020"

G. Surface Seal: 6.5'

Seal Material: Concrete

H. Seal: 1'

Seal Material: Bentonite

I. Gravel Pack: 16.5'

Pack Material: RMC Lonestar
Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.

BORING LOG

Project No. KEI-P89-1106		Boring Diameter 8"		Logged By D.L. <i>DRB</i>	
Project Name Unocal Castro Valley		Well Head Elevation N/A		Date Drilled 4/25/90	
Boring No. EB1		Drilling Method Hollow-stem Auger		Drilling Company EGI	
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description	
		0		A. C. Pavement over fill consisting of clay, sand, and gravel, moist.	
				Fill is very moist at 3.5 feet.	
14/24/37		5	CL/ CH	Gravelly clay, gravel consisting of shale fragments to 1-1/2" diameter, hard, moist, dark greenish gray and olive, cementation.	
			N/A	————— BEDROCK —————	
19/24/34		10		Shale, moderately hard, fractured, very weathered, decomposed and clayey moist, olive.	
27/45/50-4"				Shale, as above, less weathered, becoming harder with depth.	
27/36/50-2 1/2"	▼	15		Wet at 14 feet.	
		20		<p style="text-align: right;">TOTAL DEPTH DRILLED: 13.5'</p> <p style="text-align: right;">TOTAL DEPTH SAMPLED: 15'</p>	

B O R I N G L O G

Project No. KEI-P89-1106		Boring Diameter 8"		Logged By D.L. <i>DLB</i>	
Project Name Unocal Castro Valley		Well Head Elevation N/A		Date Drilled 4/25/90	
Boring No. EB2		Drilling Method Hollow-stem Auger		Drilling Company EGI	
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description	
		0		A. C. Pavement underlain by fill consisting of clay, sand and gravel.	
			CL/ CH	Gravelly clay, very stiff, moist, very dark gray, gravel consists entirely of shale fragments.	
21/42/50		5	N/A		
				— BEDROCK —	
				Shale, hard, slightly moist, fractured decomposed and clayey in fractures, dark yellowish brown.	
16/32/29	▼	10		Shale, as above, moist to wet, less weathered than above.	
19/27/39					
		15			
		20			
				TOTAL DEPTH DRILLED: 12' TOTAL DEPTH SAMPLED: 13.5'	

BORING LOG

Project No. KEI-P89-1106	Boring Diameter 8"	Logged By D.L. <i>DRB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 4/25/90
Boring No. EB3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement underlain by fill consisting of clay, sand and gravel.
			CL/ CH	Clay, 10-15% silt, 5% sand and gravel to 1/8" diameter, stiff, moist, very dark gray.
5/26/30		5	GC	Clayey gravel with sand, very dense, moist, olive brown, gravel is mostly angular shale fragments, trace serpentine?.
			CL/ CH	Clay, 5-10% sand, very stiff, moist, black.
	▼	10	GC	Clayey gravel with sand, very dense, very moist to wet, yellowish brown.
15/21/32		15		
		20		
				TOTAL DEPTH DRILLED: 9' TOTAL DEPTH SAMPLED: 10.5'

BORING LOG

Project No. KEI-P89-1106	Boring Diameter 8"	Logged By D.L. <i>DRB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 4/24/90
Boring No. EB4	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Stratigraphy USCS	Description
	N O T	0		A. C. Pavement underlain by fill consisting of clay, sand and gravel.
	E N C O U N T E R E D		CL/ CH	Clay, with sand, very stiff, moist, very dark grayish brown to black.
15/23/46		5	GC	Clayey gravel with sand, very dense, moist, olive brown, gravel is entirely shale, maybe bedrock weathered to soil.
	D U R I N G		— BEDROCK —	Shale, hard, slightly moist, fractured weathered with clay-lined fractures, olive.
49/50-3" 50-5 3/4"		10		Color change at 12 feet to olive gray, hardness increasing with depth.
25/41/50-5 1/2"	D R I L L I N G			Difficult drilling at 14 feet.
50-2"		15		
		20		
				TOTAL DEPTH DRILLED: 14' TOTAL DEPTH SAMPLED: 14.5'

BORING LOG

Project No. KEI-P89-1106	Boring Diameter 8"	Logged By D.L. <i>DLB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 4/25/90
Boring No. EB5	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement
		5	GP/ SP	Gravel and sand fill, 5-10% fines, road and utility trench backfill.
10/10/11				
10/9/8				
7/6/8				
		10	N/A	Base of Fill Materials
12/33/50				BEDROCK Shale, moderately hard, moist, fractured, decomposed with clay-lined fractures, olive to olive gray.
		15		
		20		
				TOTAL DEPTH DRILLED: 9.5' TOTAL DEPTH SAMPLED: 11'

BORING LOG

Project No. KEI-P89-1106	Boring Diameter 8"	Logged By D.L. <i>DLB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled 4/24/90
Boring No. EB6	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement underlain by fill consisting of sand and gravel.
7/11/15		5	CL/ CH	Clay, 5-10% sand, 5-10% gravel to 3/4" diameter, very stiff, moist, black.
21/33/45		10	N/A	BEDROCK
45/50-4"	▼			Shale, hard, slightly moist to moist, fractured, weathered with clay-lined fractures, olive brown.
50-3 1/4"		15		Shale, as above, less weathered than above, hardness increasing with depth
		20		TOTAL DEPTH DRILLED: 14' TOTAL DEPTH SAMPLED: 14.5'

BORING LOG

Project No. KEI-P89-1106		Boring Diameter 8"		Logged By D.L. <i>DRB</i>	
Project Name Unocal Castro Valley		Well Head Elevation N/A		Date Drilled 4/24/90	
Boring No. EB7		Drilling Method Hollow-stem Auger		Drilling Company EGI	
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description	
		0		A. C. Pavement underlain by sand and gravel baserock.	
6/12/21		5	CL/ CH	Clay, 5-10% sand and gravel to 3/8" diameter, very stiff, moist, black, lensed with greenish gray partially cemented layers below 5 feet, cemented layers have blocky texture (caliche?).	
		10	N/A		
5/50		10		BEDROCK	
30/49/50-5"				Shale, hard, slightly moist to moist, fractured, weathered with clay-lined fractures, olive brown.	
50-5 1/2"					
50-5"	▽				
		15			
		20			
				TOTAL DEPTH DRILLED: 13.5' TOTAL DEPTH SAMPLED: 14'	

BORING LOG

Project No. KEI-P89-1106	Boring Diameter 8"	Logged By D.L. <i>DRB</i>
Project Name Unocal Castro Valley	Well Head Elevation N/A	Date Drilled
Boring No. EB8	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement underlain by sand and gravel baserock.
11/13/20		5	CL/ CH	Clay, 10-20% sand and gravel to 3/8" diameter, very stiff, moist, black. At 5 feet, black and greenish gray, with locally strong cementation, blocky texture, greenish gray below 6 feet.
				Color change at approximately 8.5 feet to black.
11/25/40		10	N/A	— BEDROCK — Shale, moderately hard, moist, very weathered, fractured, clay-lined fractures, olive to olive brown.
30/41/47	▼			
		15		
		20		
				TOTAL DEPTH DRILLED: 12' TOTAL DEPTH SAMPLED: 13.5'

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/24/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 25.5 feet DEPTH TO WATER: 23.5 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			
34.0	3.0/ 3.0			5	SAND (SP): Gray (10YR 6/1), 10% fines, 90% fine- to medium-grained sand, dense, dry, hydrocarbon odor. - @ 8': color change to grayish brown (10YR 5/2), slight odor. - @ 12': color change to brown (10YR 4/3), no odor.	SP		0 5 10 15 20 25 30 35 40
5.0	4.0/ 4.0			10				
1.0	3.0/ 3.0			15	No recovery.			
1.2	2.0/ 2.0			20				
1.5	3.0/ 3.0			25	SAND (SP): same as above. - @ 21.5': color change to dark gray (10YR 4/1). - @ 24': color change to grayish brown (10YR 5/2), wet.	SP		
1.4	2.5/ 2.5			30				
				35				
				40				



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/24/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 24.0 feet DEPTH TO WATER: 23.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
0.6	3.0/3.0			5	SAND (SP): Brown (10YR 4/3), 10% fines, 90% fine-grained sand, loose, dry.			5
7.1	4.0/4.0			10				10
2.8	3.0/3.0			15	- @ 15': fine- to medium-grained sand.			15
2.1	1.0/1.0			17.5	- @ 17.5': color change to dark grayish brown (10YR 4/2), dense.			17.5
2.0	1.5/1.5			20				20
1.9	2.0/2.0			23				23
2.1	1.5/1.5			24	SILTY CLAY (CL): Gray (10YR 5/1), 95% fines, 5% fine-grained sand, medium plasticity, soft, wet.	CL		24
1.6	3.0/3.0			25				25
				30				30
				35				35
				40				40



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01
 LOCATION: 76 Station #3072
 2445 Castro Valley Blvd.
 Castro Valley, California

DATE DRILLED: 1/25/05
 LOGGED BY: R. Dunn
 APPROVED BY: K. Woodburne, RG
 DRILLING CO.: Woodward Drilling



NORTHING: NOT SURVEYED
 EASTING: NOT SURVEYED
 GROUND SURFACE ELEVATION: NOT SURVEYED

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 18.0 feet DEPTH TO WATER: 15.0 feet		USCS	LITHOLOGY	BORING BACKFILL DETAIL	
					DESCRIPTION					
1.4		0.0/ 3.0		0	Vacuum clearance to 5'.				0	Grout to Surface
				5	No recovery.				5	
		0.0/ 4.0		10					10	
		1.0/ 3.5		15	PEA GRAVEL: wet.				15	
		2.5/ 2.5		15	SAND (GW): Brown (10YR 4/3), 5% fines, 95% fine- to medium-grained sand, loose, wet.		GW		15	
				20					20	
				25					25	
				30					30	
				35					35	
				40					40	



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/25/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 49.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			
44.0		3.0/3.0		5	SILTY CLAY (CL): Greenish gray (GLEYS 1 5/10Y), 90% fines, 10% fine-grained sand, medium plastic, soft, moist, hydrocarbon odor.	CL		5
1.3		4.0/4.0		8.5	- @ 8.5': stiff.			
1.7		2.0/4.0		13	SAND (SP): Grayish brown (10YR 5/2), 10% fines, 90% fine-grained sand, dense, no odor.	SP		13
2.0		3.0/3.0		13.5	- @ 13': color change to brown (10YR 5/3).			
				13.5	- @ 13.5': color change to very dark gray (10YR 3/1).			
0.9		1.0/1.0		18	- @ 18': color change to dark grayish brown (10YR 4/2).			
1.5		3.0/3.0		20				
2.0		1.0/1.0		25	Difficult drilling conditions; augers used; no samples collected.			
				30				
				35				
				40				



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/25/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 49.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
1.2			1.0/ 1.0	40	Difficult drilling conditions.			40
				50	SAND (SP): Gray (10YR 5/1), 10% fines, 90% very fine-grained sand, loose, wet.	SP		50
				55				55
				60				60
				65				65
				70				70
				75				75
				80				80



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 23.0 feet DEPTH TO WATER: Not Encountered	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
0.2	3.0/3.0			5	SILT (ML): Light yellowish brown (10YR 6/4), 90% fines, 10% fine-grained sand, nonplastic, stiff, dry.	ML		5
0.4	4.0/4.0			10	SAND (SP): Brown (10YR 5/3), 10% fines, 90% fine- to medium-grained sand, dense, dry.			10
1.2	4.0/4.0			15				15
1.2	2.0/2.0			17.5	- @ 17.5': color change to gray (10YR 5/11), fine-grained sand, loose.	SP		17.5
1.8	2.0/2.0			20				20
2.5	2.0/2.0			25				25
2.0	1.0/1.0			30				30
				35				35
				40				40



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 47.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
24.6	3.0/3.0			5	SILT (ML): Greenish gray (GLEY1 5/10Y), 90% fines, 10% fine- to medium-grained sand, low plasticity, soft, moist.	ML		5
190.1	2.0/2.0			10	SAND (SP): Pale brown (10YR 6/3), 15% fines, 85% fine-grained sand, dry.			10
60.1	2.0/2.0			12.5	- @ 12.5': color change to yellowish brown (10YR 5/4).			12.5
2.2	1.0/1.0			15	- @ 15.5': medium-grained sand, slight hydrocarbon odor.	SP		15
6.7	3.0/3.0			20	- @ 20': no odor.			20
7.1	3.0/3.0			25				25
6.8	2.0/2.0			30				30
				35				35
				40	Difficult drilling conditions; augers used; no samples collected.			40



LOG OF EXPLORATORY BORING

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 47.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				40	Difficult drilling conditions.			40
				45				45
		3.0/ 3.0		50	SANDY SILT (ML): Gray (10YR 5/1), 90% fines, 10% fine-grained sand, low plasticity, soft, wet. SAND (SP): Gray (10YR 6/1), 10% fines, 90% fine-grained sand, dense, dry.	ML SP		50
				55				55
				60				60
				65				65
				70				70
				75				75
				80				80



LOG OF EXPLORATORY BORING

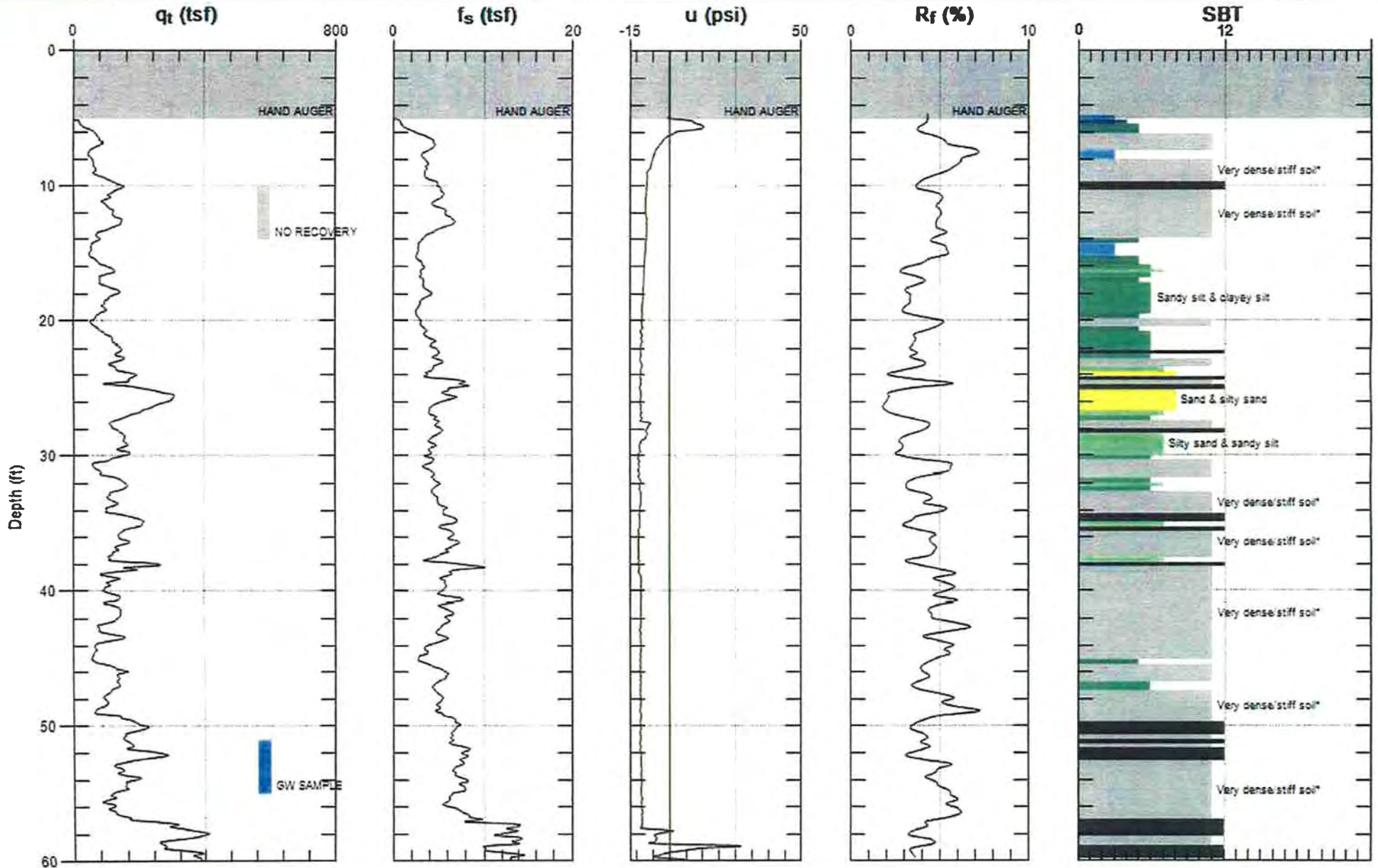


TRC SOLUTIONS

Site: CONOCO PHILLIPS #3072 Engineer: K.WOODBURNE

Sounding: CPT-01

Date: 5/3/2007 05:45



Max. Depth: 60.039 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

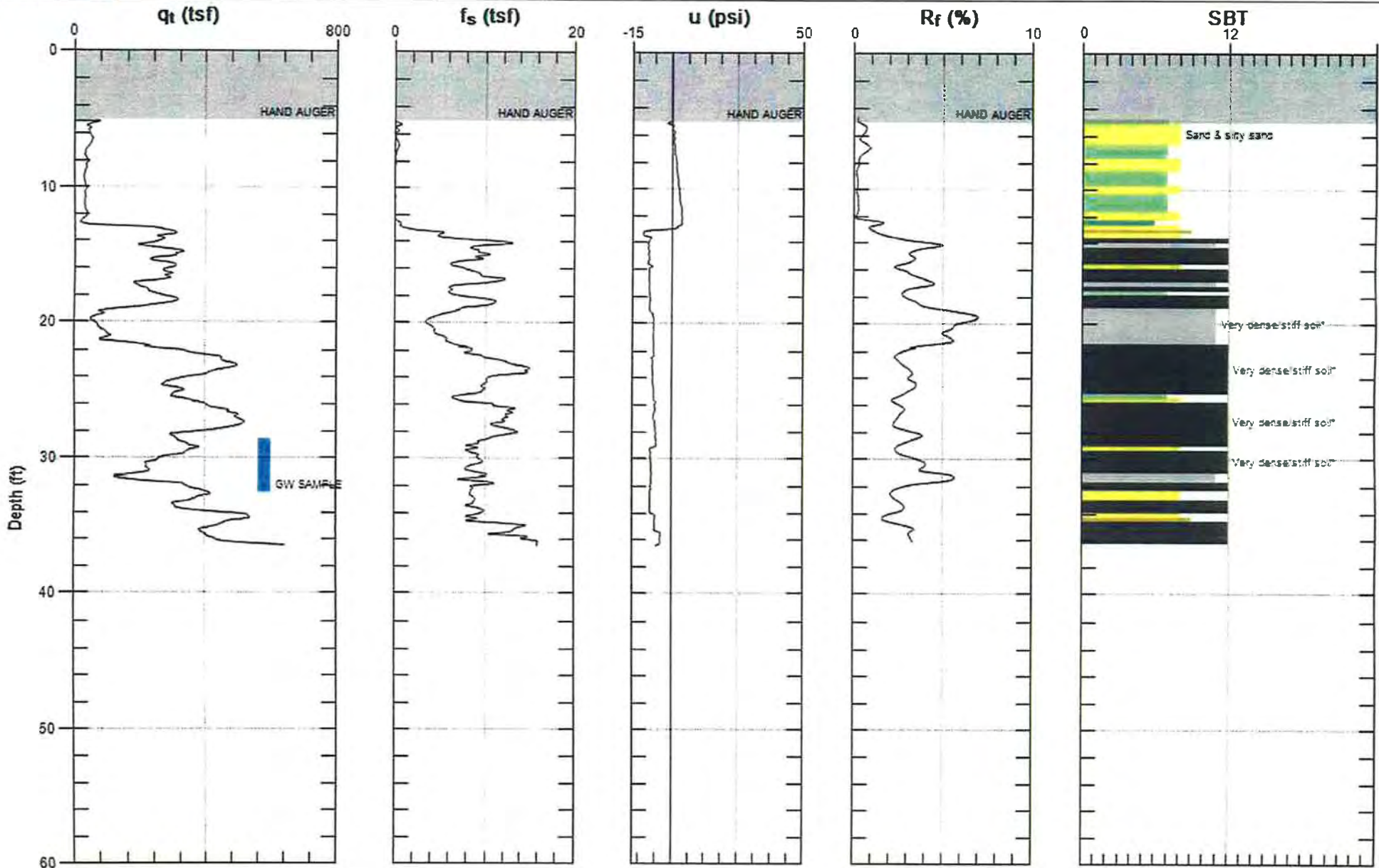


TRC SOLUTIONS

Site: CONOCO PHILLIPS #3072 Engineer: K.WOODBURNE

Sounding: CPT-02

Date: 5/3/2007 12:15



Max. Depth: 36.417 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

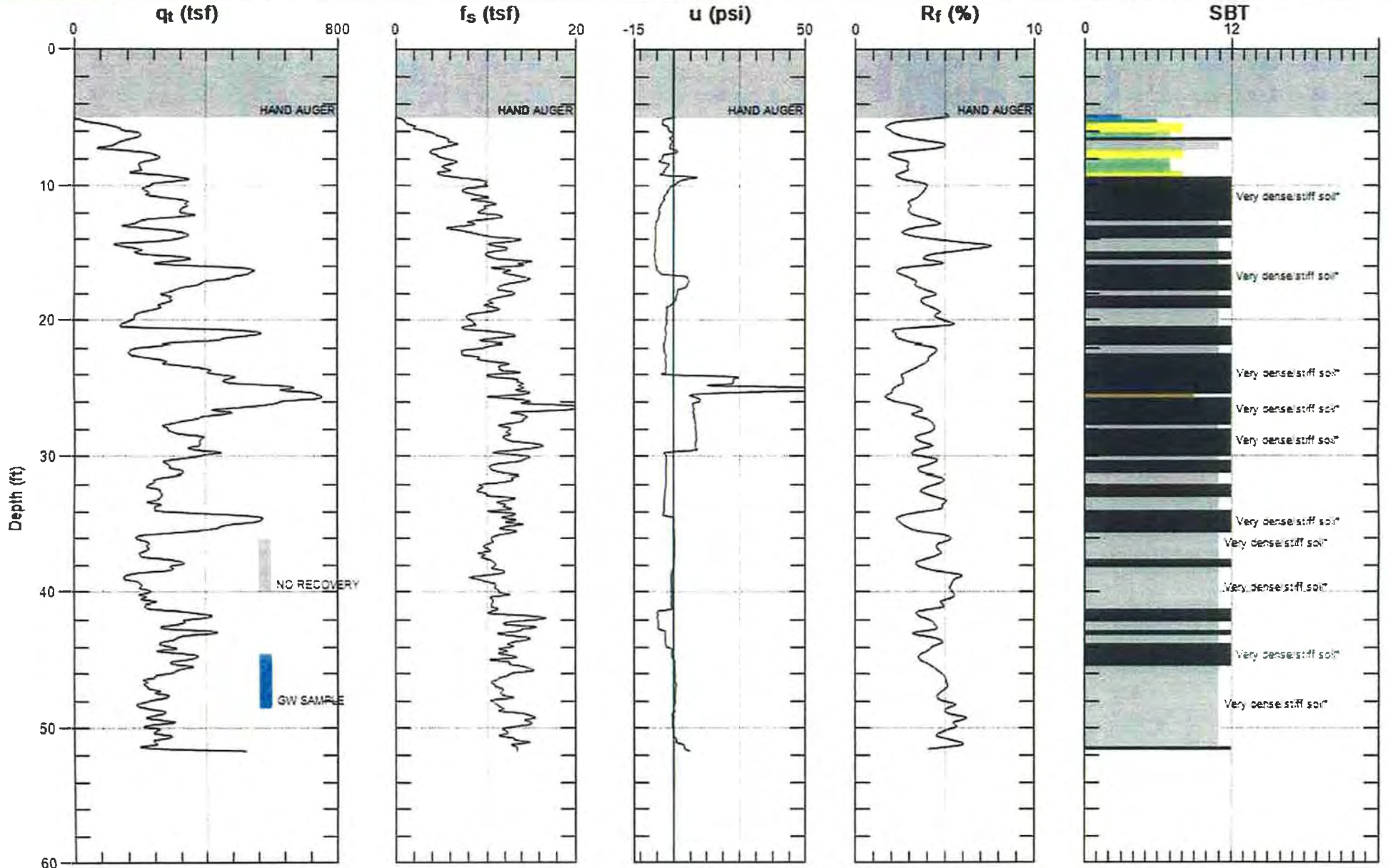


TRC SOLUTIONS

Site: CONOCO PHILLIPS #3072 Engineer: K.WOODBURNE

Sounding: CPT-04

Date: 5/3/2007 08:37



Max. Depth: 51.673 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

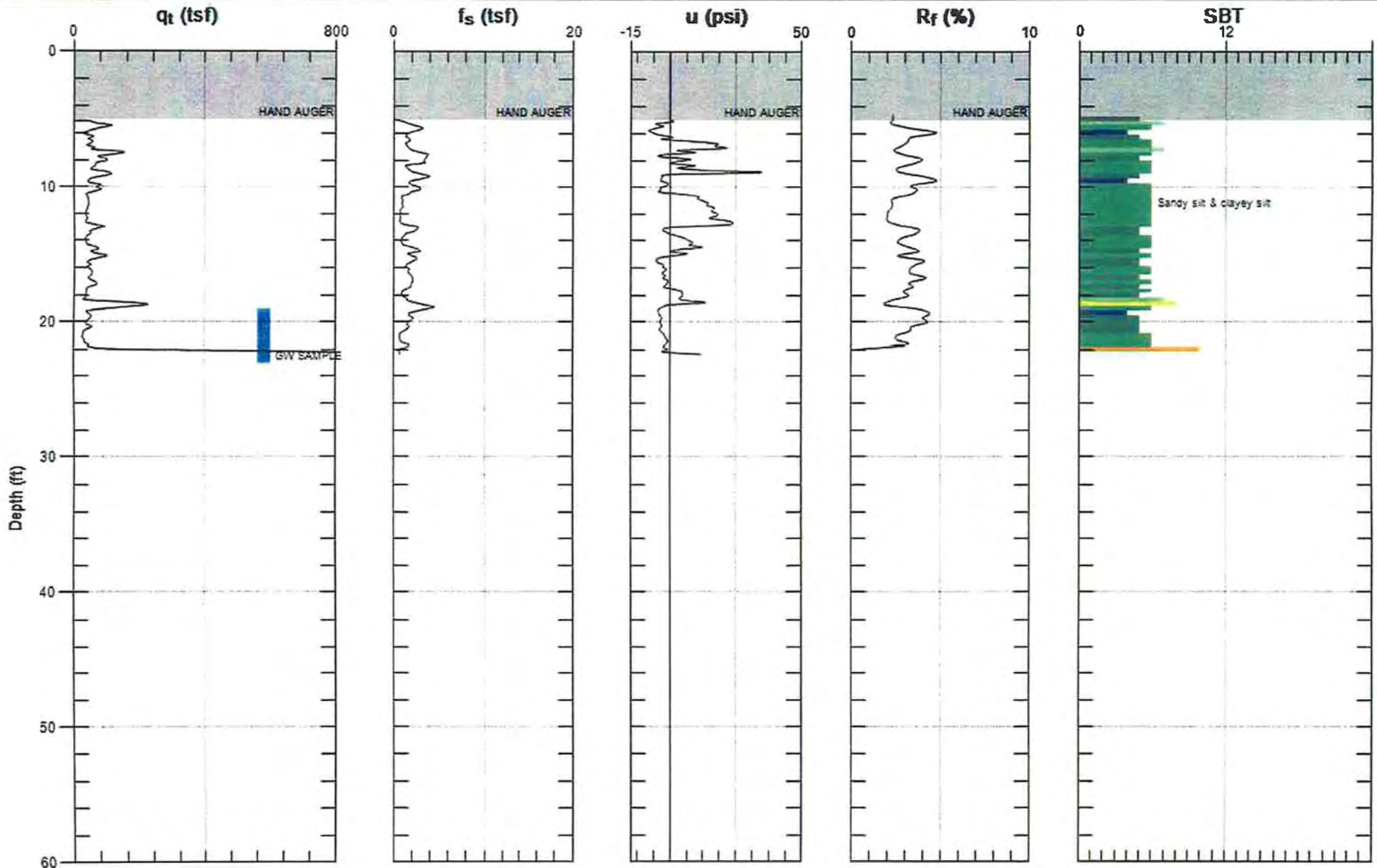


TRC SOLUTIONS

Site: CONOCO PHILLIPS #3072 Engineer: K.WOODBURNE

Sounding: CPT-05

Date: 5/4/2007 05:23



Max. Depth: 22.310 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)