ConocoPhillips
76 Broadway
Sacramento, California 95818

September 7, 2006

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Report Transmittal**
Soil Boring Assessment
76 Service Station #6034
4700 First Street
Livermore, CA

Dear Mr. Wickham:

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

Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

Sincerely,

Thomas K. Kosel

Thomas Kosel
Risk Management & Remediation

Attachment

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

3164 Gold Camp Drive • Suite 200
Rancho Cordova, California 95670 USA

916.638.2085 800.477.7411
Fax 916.638.8385

September 8, 2006

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

Re: Soil Boring Assessment Report
Delta Project No. C106034041
76 Service Station No. 6034
4700 First Street
Livermore, California

Dear Mr. Wickham:

This report has been prepared by Delta Environmental Consultants, Inc. (Delta) on behalf of ConocoPhillips Company (COP) to present the results of the advancement of one soil boring for the above referenced site. Figure 1 shows the location and vicinity of the site. The purpose of drilling the soil boring was to collect and analyze soil samples and discrete grab groundwater samples to delineate the vertical and downgradient extent of contamination at the site. Groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were collected in conjunction with the soil and depth-discrete grab groundwater sampling.

Figure 2 shows site facility details and the location of the soil boring.

SITE DESCRIPTION

The subject site is an active gasoline station. The site is located adjacent to and northeast of an intermittent drainage stream. Two other gasoline stations are located in the vicinity of the site.

Current site facilities consist of two dispenser islands, a canopy and a station building, two 12,000-gallon gasoline underground storage tanks (UST)s, one waste-oil UST, and three hoists.

SITE BACKGROUND AND ACTIVITY

Two fuel USTs, one waste oil UST, and the product piping were removed from the site in August 1989. Petroleum hydrocarbon concentrations in soil samples collected beneath the fuel USTs were non-detect to moderate. The fuel UST pit was subsequently over-excavated to a depth of 17.5 feet below ground surface (bgs), where groundwater was encountered, to remove hydrocarbon-impacted soil. Petroleum hydrocarbon concentrations in soil samples collected from beneath the waste oil UST were non-detect.

In October 1989, four monitoring wells (MW-1 through MW-4) were installed to depths ranging from 26 to 29 feet bgs. Groundwater was encountered at depths ranging from 14.5 to 17.5 feet bgs.

In April 1991, three additional monitor wells (MW-5 through MW-7) were installed to average depths of 25 feet bgs. Groundwater was initially encountered at approximately 16 feet bgs.

In August 1995, an oxygen-releasing compound (magnesium peroxide) was placed in well MW-2 to enhance biodegradation of petroleum hydrocarbons. Also, a non-attainment zone status was sought from the regulatory agencies.

On October 30, 2003, five soil borings (SB-1 though SB-5) were completed to depths of 20 feet bgs. Adsorbed-phase methyl tertiary butyl ether (MTBE) was detected in two of the four soil samples analyzed at concentrations ranging from 0.042 milligrams per kilogram (mg/kg) (SB-5@5') to 0.064 mg/kg (SB-4@5'), which exceed the applicable Tier 1 environmental screening level (ESL) of the San Francisco Bay Regional Water Quality Control Board of 0.023 mg/kg. In addition, MTBE in the groundwater sample collected from SB-3 was detected at 13 micrograms per liter (µg/l), above the applicable ESL of 5.00 µg/l.

Groundwater samples collected from MW-2 over the past two years have detected MTBE concentrations ranging from 1.5 to 5.9 µg/l.

SITE GEOLOGY AND HYDROGEOLOGY

The results of previous subsurface investigations show the subject site is underlain by Quaternary-age alluvium to at least 28.5 feet bgs. The alluvium generally consists of a gravely unit at the surface varying from 5 to 7 feet thick that is underlain by a clay unit to depths below grade of 11 to 13 feet. A second gravelly unit is recognized beneath the clay unit but varies significantly in thickness from approximately 6.5 to 8 feet thick near MW-1 and MW-2 to approximately 12.5 feet thick in the vicinity of MW-3. The second gravelly unit is underlain by a second clay unit which locally contains sandy and gravelly lenses and extends from depths below grade of 23.5 to 25 feet to the maximum depth explored (26 to 28.5 feet bgs).

Groundwater was initially encountered at depths of 14 to 15.5 feet bgs during drilling at the site. Historical monitoring data show the static depth to water onsite varies from 13 to 18 feet bgs. Historical groundwater flow direction has been predominantly northwest with an average gradient of 0.01 foot per foot (ft/ft). The nearest surface water to the site is an intermittent drainage stream. The stream flows northwest and turns sharply northeast behind the site and then bends toward the northwest again.

SCOPE OF WORK

The scope of work included the following activities:

- Conducted utility clearance and obtained the appropriate drilling permits;
- Drilled one soil boring to 63 feet bgs with the initial five feet cleared by "air-knife" technology;
- Collected soil samples for laboratory analysis from the borehole;
- Collected depth discrete grab groundwater samples from the borehole;
- Collected groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 in conjunction with the soil and discrete-grab groundwater sampling; and
- Uploaded analytical laboratory data into the State of California Geotracker System.

Pre-Field Investigation Activities

A utility survey was completed prior to conducting the field investigation. Underground Services Alert (USA) was notified prior to drilling operations, and a private utility locating company was utilized to reduce the risk of damage to utilities beneath the property. Additionally, the first five feet of each borehole was cleared using air-knife technology before drilling began.

Delta prepared a site-specific Health and Safety (H&S) plan in accordance Title 8, Section 5192 of the California Code of Regulations. The H&S plan contains a list of emergency contacts, as well as a hospital route map to the nearest emergency facility.

A drilling permit was obtained from the Zone 7 Water Agency.

Soil Boring and Sampling Procedures

The soil boring (Figure 2) was drilled by a licensed contractor using a cone penetrometer (CPT) rig. Three boreholes were advanced for the soil boring location. The initial borehole was drilled to identify water-bearing zones for grab groundwater sampling and provide a CPT log of subsurface lithologies. The second borehole was drilled to collect soil samples for identification and laboratory analysis and to collect a "shallow" depth-discrete groundwater sample. The third borehole was drilled to collect a "deeper" depth-discrete groundwater sample. Soil samples from selected depths were collected for analysis. Each boring was backfilled with grout upon completion.

Soil samples were collected using a direct push piston sampler. A sealed pointed piston was advanced within the core barrel of the CPT to the desired sample depth. The piston was then opened and driven to further depth to collect a soil sample at which time the piston assembly was removed and the soil sample recovered. The sample tube from each interval were sealed with Teflon tape and plastic end caps and placed in an ice chest cooled with ice for delivery to the analytical laboratory for analysis under chain-of-custody protocol. The remaining soil collected from the sample tubes were used for field screening and lithologic description purposes. Soil samples from each sample interval were field screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). Five soil samples were collected for laboratory analysis. Soil samples were submitted for analysis when the PID measurements showed evidence of substantial contamination. The PID

measurements were recorded on the soil boring log by the field geologist. Each soil sample was logged using the Unified Soil Classification System (USCS).

Groundwater samples were collected using a closed screen sampler. The assembly was driven with the outer tube casing in place. When the desired groundwater sample depth was reached, the outer casing was retracted to expose the screen to groundwater. A small-diameter bailer was then lowered through the drill casing and a groundwater sample collected. The expendable drive point was left in place when the drill casing and sampling assembly were removed.

Each groundwater sample was placed into an appropriately labeled container, sealed, and placed in an ice chest cooled with ice and transported to a state-certified laboratory for analysis under chain-of-custody protocol.

Subsurface Conditions

A Delta field geologist examined soil samples from the boring in conjunction with the corresponding CPT log when classifying soil type and thickness. Soil encountered during air-knifing and drilling near the surface consisted primarily of a gravely unit approximately 5 feet thick underlain by a clay/silt unit to approximately 14 feet below grade. A second gravelly unit beneath the clay/silt unit extends to approximately 24 feet below grade. The second gravelly unit is underlain by a second clay/silt unit which locally contains sandy lenses and extends to approximately 57 feet below grade. A third gravelly unit interpreted by the CPT log extends to the maximum depth explored (63 feet bgs). Groundwater was initially encountered at approximately 15 feet bgs. The CPT Site Investigation is included as Attachment A, and the boring log for SB-6 is presented in Attachment B.

Laboratory Analysis and Results

Soil and groundwater samples were submitted under chain of custody protocol to a California-certified laboratory. The soil and groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), MTBE, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBA), tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), and ethanol by United States Environmental Protection Agency (US EPA) Method 8260B. In addition, for waste profiling purposes, one soil sample was analyzed for total lead by EPA Method 6010.

Soil

Analytical results of soil samples are shown in Table 1. All soil samples were reported as not detected above the applicable laboratory detection limits. The laboratory report is included as Attachment C

Water

Analytical results of groundwater samples are shown in Table 2. Two groundwater samples were collected from boring SB-6 at depths of 18 feet and 62 feet bgs. TPPH was detected in sample B-6@18' at a concentration of 77 µg/l. Toluene, ethylbenzene and total xylenes were also detected in sample B-6@18' at concentrations of 1.2 µg/l, 0.76 µg/l, and 2.5 µg/l, respectively. Analytical results of groundwater sample B-6@62' showed no constituents detected above the applicable laboratory detection limits. The laboratory report is included as Attachment C

Groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 were collected in conjunction with the soil boring assessment. Total petroleum hydrocarbons as gasoline (TPH-G) analyzed by EPA Method 8015 (modified) was detected in two of the six groundwater samples at concentrations of 62 µg/l (MW-2) and 140 µg/l (MW-5). Ethylbenzene and total xylenes were detected in the sample from MW-2 at concentrations of 2.1 µg/l and 4.5 µg/l, respectively. All other analyzed constituents were reported as not detected above the laboratory detection limits. The groundwater monitoring well sampling report is included as Attachment D

Waste Disposal

Soil cuttings generated during this investigation were temporarily stored onsite in appropriately labeled 55-gallon Department of Transportation (DOT)-approved drums pending disposal arrangements. The soil was transported offsite by a licensed waste hauler once an approved destination for the waste is found.

Conclusions

Delta concludes the following:

- Soil boring SB-6 was drilled in the vicinity of the USTs to a total depth of 63 feet bgs. Soil samples were collected at 5 feet, 15 feet, 25 feet, 30 feet, and 56 feet bgs. All soil sample analytical results were reported as not detected above the applicable laboratory detection limits.
- Two grab groundwater samples were collected from soil boring SB-6 at 18 feet and 62 feet bgs. Low concentrations of petroleum hydrocarbons were detected in the groundwater sample collected from 18 feet bgs.

Remarks/Signatures

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

If you have questions regarding this assessment report, please call Daniel Davis at (916) 503-1260.

Sincerely,
Delta Environmental Consultants, Inc.

for Ben Wright
Staff Geologist

Daniel J. Davis, R.G.
Senior Project Manager

REGISTERED GEOLOGIST
DANIEL J. DAVIS
No. 6435
STATE OF CALIFORNIA

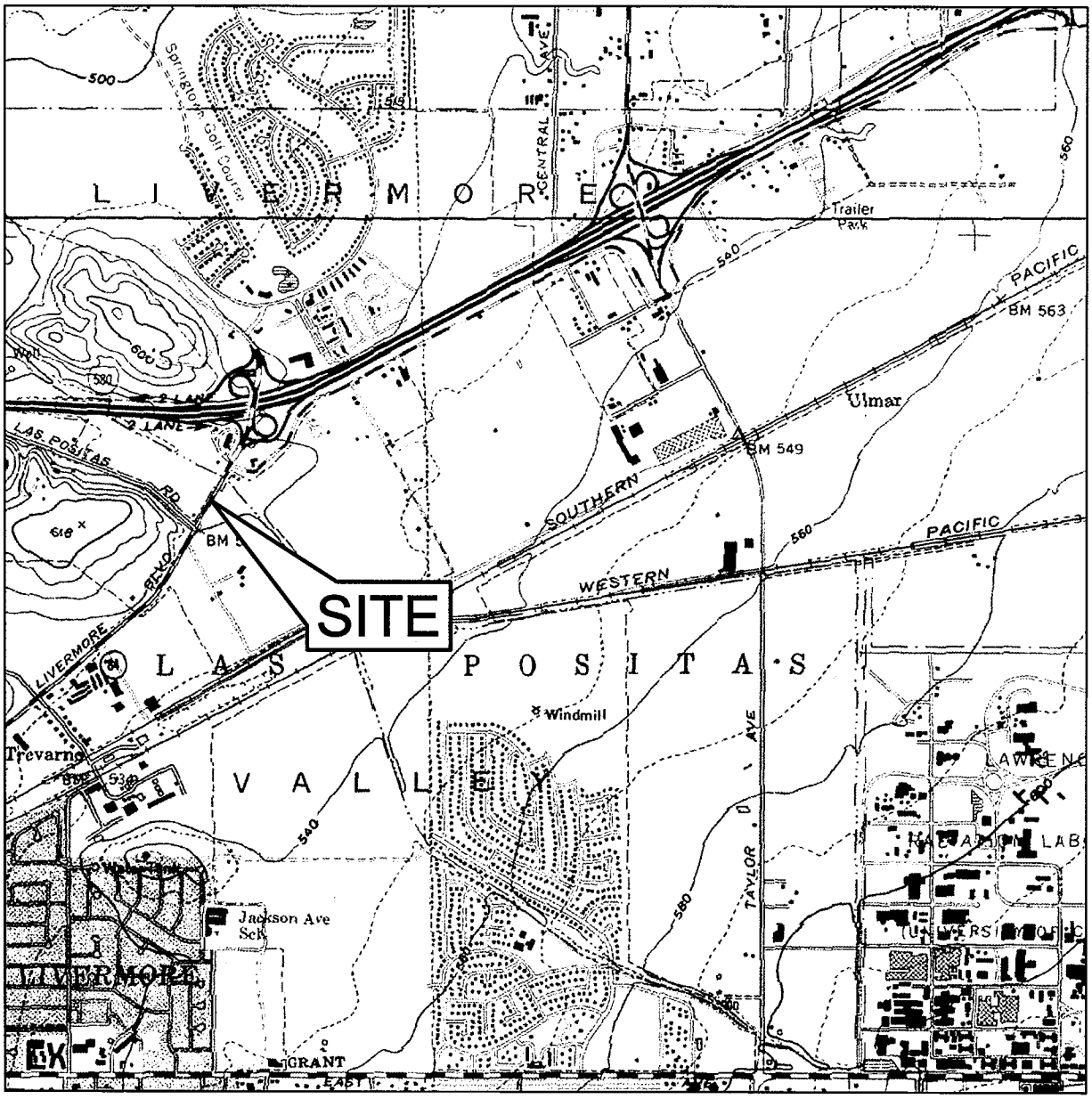
Cc: Shelby Lathrop – ConocoPhillips (electronic copy)
Asghar Kholdi – Station Owner

Figures: Figure 1 – Site Location Map
Figure 2 – Site Plan

Tables: Table 1 – Soil Analytical Results
Table 2 – Groundwater Analytical Results

Attachments: Attachment A – CPT Site Investigation
Attachment B – Boring Log
Attachment C – Laboratory Report
Attachment D – Groundwater Monitoring Well Sampling Report

Figures



0 1000 FT 2000 FT

SCALE: 1 : 24,000

North

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, ALTAMONT QUADRANGLE, 1995

FIGURE 1

SITE LOCATION MAP

76 STATION NO. 6034
4700 FIRST STREET
LIVERMORE, CALIFORNIA

PROJECT NO. C106-034	DRAWN BY MC 3/16/06
FILE NO. Site Locator 4844	PREPARED BY MC
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

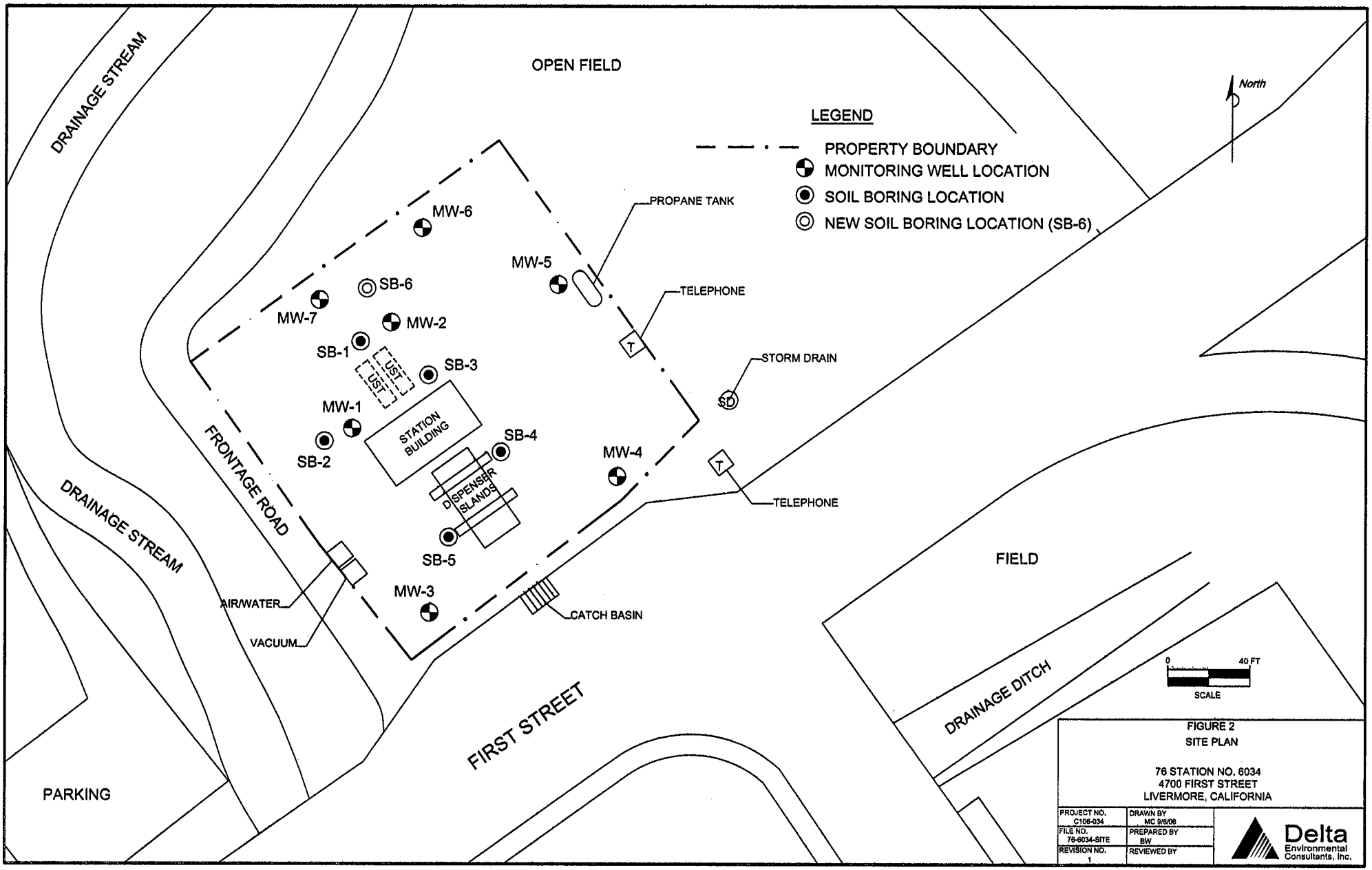


FIGURE 2
SITE PLAN

76 STATION NO. 6034
4700 FIRST STREET
LIVERMORE, CALIFORNIA

PROJECT NO. C106-034	DRAWN BY MC 9/6/06
FILE NO. 76-6034-SITE	PREPARED BY BW
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

Tables

Table 1

SOIL ANALYTICAL RESULTS
ConocoPhillips Station No. 6034
4700 First Street, Livermore California

Sample ID	Date	Depth (feet)	TPPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	MTBE (mg/Kg)	TBA (mg/Kg)	ETBE (mg/Kg)	TAME (mg/Kg)	DIPE (mg/Kg)	Ethanol (mg/Kg)	Lead (mg/Kg)
Soil														
SB-6@5'	7/21/2006	5	---	---	---	---	---	---	---	---	---	---	---	7.1
SB-6@15'	7/21/2006	15	ND<0.50	ND<0.012	ND<0.012	ND<0.012	ND<0.025	ND<0.012	ND<0.50	ND<0.0025	ND<0.0025	ND<0.012	ND<2.5	---
SB-6@25'	7/21/2006	25	ND<10	ND<0.25	ND<0.25	ND<0.25	ND<0.50	ND<0.25	ND<10	ND<0.050	ND<0.050	ND<0.25	ND<50	---
SB-6@30'	7/21/2006	30	ND<10	ND<0.25	ND<0.25	ND<0.25	ND<0.50	ND<0.25	ND<10	ND<0.050	ND<0.050	ND<0.25	ND<50	---
SB-6@56'	7/21/2006	56	ND<10	ND<0.25	ND<0.25	ND<0.25	ND<0.50	ND<0.25	ND<10	ND<0.050	ND<0.050	ND<0.25	ND<50	---

TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B
BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
MTBE = methyl tertiary butyl ether by EPA Method 8260B
TBA = tertiary butyl alcohol by EPA Method 8260B
ETBE = ethyl tertiary butyl ether by EPA Method 8260B
DIPE = di-isopropyl ether by EPA Method 8260B
TAME = tertiary amyl methyl ether by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B
Lead was analyzed by EPA Method 6010
mg/Kg = milligrams per kilogram
--- = not analyzed
ND = not detected above the laboratory detection limit
Bold = detected compound concentration
EPA = US Environmental Protection Agency

Table 2

GROUNDWATER ANALYTICAL RESULTS
ConocoPhillips Station No. 6034
4700 First Street, Livermore California

Sample ID	Date	Depth (feet)	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
Groundwater													
SB-6@18'	7/21/2006	18	**77**	ND<0.50	**1.2**	**0.76**	**2.5**	ND<0.50	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<250
SB-6@62'	7/21/2006	62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<10	ND<0.50	ND<0.50	ND<0.50	ND<250

TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B
BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
MTBE = methyl tertiary butyl ether by EPA Method 8260B
TBA = tertiary butyl alcohol by EPA Method 8260B
ETBE = ethyl tertiary butyl ether by EPA Method 8260B
DIPE = di-isopropyl ether by EPA Method 8260B
TAME = tertiary amyl methyl ether by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B

µg/L = micrograms per liter
--- = not analyzed
ND = not detected above the laboratory detection limit
Bold = detected compound concentration
EPA = US Environmental Protection Agency

Attachment A
CPT Site Investigation

GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

July 24, 2006

Delta Environmental
Attn: Ben Wright
3164 Gold Camp Road, Suite 200
Rancho Cordova, California 95670

Subject: CPT Site Investigation
76 Station #6034
Livermore, California
GREGG Project Number: 06-239MA

Dear Mr. Wright:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVIF Cone Penetration Tests	(UVIFCPTU)	☐
6	Groundwater Sampling	(GWS)	☒
7	Soil Sampling	(SS)	☒
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-06	7/21/06	64	19, 65	5, 10, 15, 20NR, 25, 30, 35, 40, 45, 50, 56	59.1

APPENDIX CPT

Cone Penetration Test Data & Interpretation

Soil behavior type and stratigraphic interpretation is based on relationships between cone bearing (q_c), sleeve friction (f_s), and pore water pressure (u_2). The friction ratio (R_f) is a calculated parameter defined by $100f_s/q_c$ and is used to infer soil behavior type. Generally:

Cohesive soils (clays)

- High friction ratio (R_f) due to small cone bearing (q_c)
- Generate large excess pore water pressures (u_2)

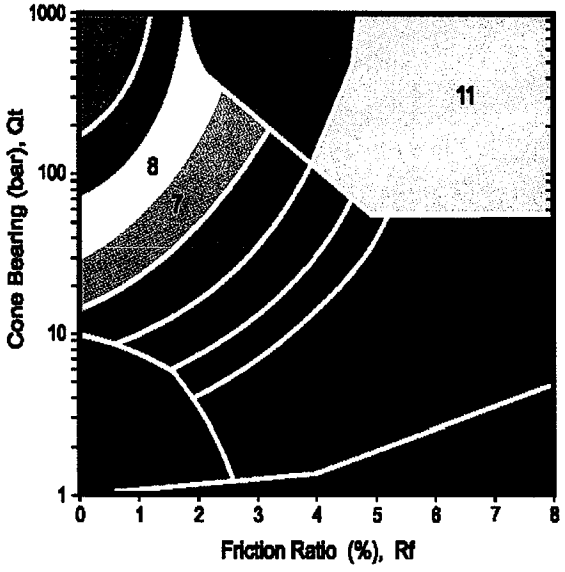
Cohesionless soils (sands)

- Low friction ratio (R_f) due to large cone bearing (q_c)
- Generate very little excess pore water pressures (u_2)

A complete set of baseline readings are taken prior to and at the completion of each sounding to determine temperature shifts and any zero load offsets. Corrections for temperature shifts and zero load offsets can be extremely important, especially when the recorded loads are relatively small. In sandy soils, however, these corrections are generally negligible.

The cone penetration test data collected from your site is presented in graphical form in Appendix CPT. The data includes CPT logs of measured soil parameters, computer calculations of interpreted soil behavior types (SBT), and additional geotechnical parameters. A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Soil interpretation for this project was conducted using recent correlations developed by Robertson, 1990, *Figure SBT*. Note that it is not always possible to clearly identify a soil type based solely on q_c, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type.



ZONE	Qt/N	SBT
1	2	Sensitive, fine grained
2	1	Organic materials
3	1	Clay
4	1.5	Silty clay to clay
5	2	Clayey silt to silty clay
6	2.5	Sandy silt to clayey silt
7	3	Silty sand to sandy silt
8	4	Sand to silty sand
9	5	Sand
10	6	Gravely sand to sand
11	1	Very stiff fine grained*
12	2	Sand to clayey sand*

*over consolidated or cemented

Figure SBT

Cone Penetration Testing Procedure (CPT)

Gregg In Situ, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm^2 and a friction sleeve area of 225 cm^2. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and penetration pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip (u_2), *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.

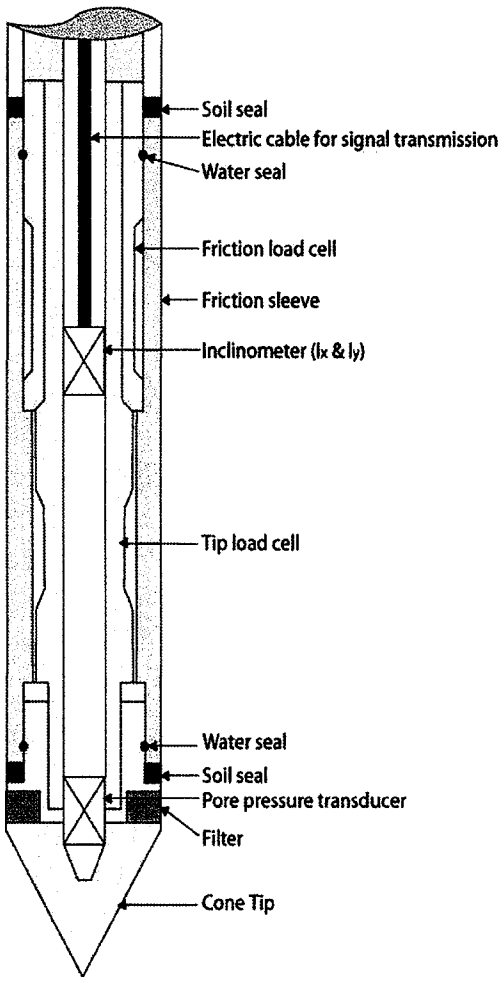


Figure CPT

When the soundings are complete, the test holes are grouted using a Gregg In Situ support rig. The grouting procedures generally consist of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

APPENDIX PPD

Pore Pressure Dissipation Tests (PPDT)

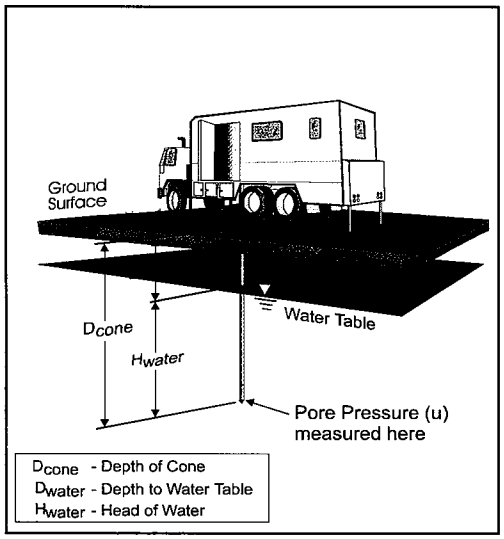
Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (u) with time is measured behind the tip of the cone and recorded by a computer system.
Pore pressure dissipation data can be interpreted to provide estimates of:

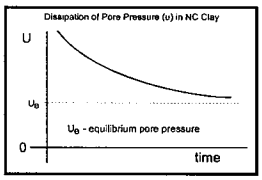
- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permeability (k_h)

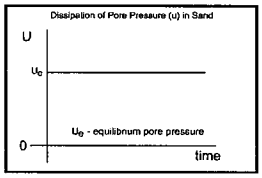
In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time, *Figure PPDT*. This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

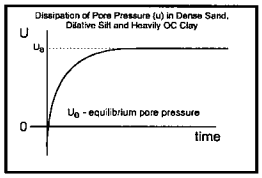
A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992.

A summary of the pore pressure dissipation tests is summarized in Table 1. Pore pressure dissipation data is presented in graphical form in Appendix PPDT.









Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure PPDT

APPENDIX GWS

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

Attachment B
Boring Log

Delta
Environmental Consultants, Inc.

Project No: C106034041	Client: ConocoPhillips	**SB-6**	
Logged By: Ben Wright	Location: 4700 First Street, Livermore, California	Page 1 of 3	
Driller: Gregg Drilling and Testing	Date Drilled: 7/21/06	Location Map	
Drilling Method: Cone Penetration Testing	Hole Diameter: 1.75"	**See Site Map**	
Sampling Method:Piston Sampler/Hydropunch	Hole Depth: 63'		
Casing Type: NA	Well Diameter: NA		
Slot Size: NA	Well Depth: NA		
Gravel Pack: NA	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt
Neat Cement		Moist		Air Knife	1–4			GM	**Silty GRAVEL with sand;** brown; medium dense; medium to coarse sand; subangular to rounded gravel and sand; no odor. (70,15,15)
		Dry to Moist	0		5–8			ML	**SILT with Sand;** yellowish brown; non plastic; low toughness; dry to moist; no odor; (10,25,65)
		Moist	56.1		9–13			CL	**CLAY;** greenish brown; medium plasticity; some sand medium toughness, moist, no odor (0,10,90)
		Sat	130		14–17			GM	**Silty GRAVEL with sand;** grayish brown; medium dense; medium to coarse sand; no odor (60,20,20)
					18		X		Groundwater sampled @ 18'
		Sat	24		19–22			GM	Small Recovery; As above; greenish brown; more gravel

Delta
Environmental Consultants, Inc.

Project No: C106034041 | Client: ConocoPhillips | **SB-6**
Logged By: Ben Wright | Location: 4700 First Street, Livermore, California | Page 2 of 3
Driller: Gregg Drilling and Testing | Date Drilled: 7/21/06
Drilling Method: Cone Penetration Testing | Hole Diameter: 1.75"
Sampling Method:Piston Sampler/Hydropunch | Hole Depth: 63'
Casing Type: NA | Well Diameter: NA
Slot Size: NA | Well Depth: NA
Gravel Pack: NA | Casing Stickup: NA

Location Map: **See Site Map**

Elevation | Northing | Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement					23				
					24				
		Sat	68		25			ML	**SILT;** grayish to light brown; non plasticity; low toughness; saturated; odor; (0,0,100)
					26				
					27				
					28				
					29				
		Sat	37		30			ML	As above; light brown
					31				
					32				
					33				
					34				
		Sat	4.8		35			SP	**Poorly graded SAND with silt;** light brown;
					36			SM	poorly graded; fine grained; low toughness/soft; saturated; slight odor, (0,90,10)
					37				
					38				
					39				
		Wet	30		40			CL	**CLAY;** grayish brown; medium plasticity; low toughness; wet; no odor; (0,0,100)
					41				
					42				
					43				
					44				

Delta
Environmental Consultants, Inc.

Project No: C106034041	Client: ConocoPhillips	**SB-6**	
Logged By: Ben Wright	Location: 4700 First Street, Livermore, California	Page 3 of 3	
Driller: Gregg Drilling and Testing	Date Drilled: 7/21/06	Location Map	
Drilling Method: Cone Penetration Testing	Hole Diameter: 1.75"	**See Site Map**	
Sampling Method:Piston Sampler/Hydropunch	Hole Depth: 63'		
Casing Type: NA	Well Diameter: NA		
Slot Size: NA	Well Depth: NA		
Gravel Pack: NA	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement		Wet	2		45			CL	As above
					46				
					47				
					48				
					49				
		Sat/ Wet	8		50			SM	**Silty SAND;** greenish/grayish brown; fine to coarse; well graded; medium dense; saturated; no odor; (0,80,20)
					51			CL	**CLAY;** light brown; medium plasticity; medium toughness; saturated/wet; no odor; (0,0,100)
					52				
					53				
					54				
					55				
		Wet	3		56			CL	As above
					57				
					58				
					59				
					60				
					61				
					62		X		Groundwater sampled @ 62'
					63				**Total Depth = 63'**
					64				
					65				
					66				

Attachment C
Laboratory Report

BC Laboratories, Inc

Date of Report: 08/07/2006

Daniel Davis

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova, CA 95670
RE: 6034
BC Lab Number: 0607411

Enclosed are the results of analyses for samples received by the laboratory on 07/24/06 22:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Hooker
Client Service Rep

Authorized Signature

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0607411-01	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 10:30	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: W
	Sampling Point:	SB-6-@18	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:
0607411-02	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 14:20	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: W
	Sampling Point:	SB-6@62	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:
0607411-03	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 10:20	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: SO
	Sampling Point:	SB-6-@15	**Sample Matrix:**	Solids	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:
0607411-04	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 11:05	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: SO
	Sampling Point:	SB-6-@25	**Sample Matrix:**	Solids	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:
0607411-05	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 11:13	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: SO
	Sampling Point:	SB-6-@30	**Sample Matrix:**	Solids	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0607411-06	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 14:06	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: SO
	Sampling Point:	SB-6-@56	**Sample Matrix:**	Solids	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:
0607411-07	**COC Number:**	---	**Receive Date:**	07/24/06 22:30	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/21/06 10:00	Global ID: T0600101477
	Sampling Location:	SB-6	**Sample Depth:**	---	Matrix: SO
	Sampling Point:	SB-6-@5	**Sample Matrix:**	Solids	Samle QC Type (SACode): CS
	Sampled By:	Ben Wright of DECR			Cooler ID:

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-01 | **Client Sample Name:** 6034, SB-6, SB-6-@18, 7/21/2006 10:30:00AM, Ben Wright

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	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Ethylbenzene	0.76	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Toluene	1.2	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Total Xylenes	2.5	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
Total Purgeable Petroleum Hydrocarbons	77	ug/L	50		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376	ND	
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376		
4-Bromofluorobenzene (Surrogate)	97.8	%	86 - 115 (LCL - UCL)		EPA-8260	07/25/06	07/26/06 17:25	DKC	MS-V10	1	BPG1376		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-02 | **Client Sample Name:** 6034, SB-6, SB-6@62, 7/21/2006 2:20:00PM, Ben Wright

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	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378	ND	
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378		
Toluene-d8 (Surrogate)	97.0	%	88 - 110 (LCL - UCL)		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378		
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)		EPA-8260	07/26/06	07/27/06 20:38	DKC	MS-V10	1	BPG1378		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-03 | **Client Sample Name:** 6034, SB-6, SB-6-@15, 7/21/2006 10:20:00AM, Ben Wright

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	0.012		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Ethylbenzene	ND	mg/kg	0.012		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Methyl t-butyl ether	ND	mg/kg	0.012		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Toluene	ND	mg/kg	0.012		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Total Xylenes	ND	mg/kg	0.025		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
t-Amyl Methyl ether	ND	mg/kg	0.0025		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
t-Butyl alcohol	ND	mg/kg	0.50		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Diisopropyl ether	ND	mg/kg	0.012		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Ethanol	ND	mg/kg	2.5		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Ethyl t-butyl ether	ND	mg/kg	0.0025		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.50		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381	ND	A10
1,2-Dichloroethane-d4 (Surrogate)	97.3	%	70 - 121 (LCL - UCL)		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381		
Toluene-d8 (Surrogate)	105	%	81 - 117 (LCL - UCL)		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381		
4-Bromofluorobenzene (Surrogate)	92.3	%	74 - 121 (LCL - UCL)		EPA-8260	07/27/06	07/27/06 15:31	DRS	MS-V3	2.50	BPG1381		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-04 | **Client Sample Name:** 6034, SB-6, SB-6-@25, 7/21/2006 11:05:00AM, Ben Wright

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	0.25		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Ethylbenzene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Methyl t-butyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Toluene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Total Xylenes	ND	mg/kg	0.50		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
t-Amyl Methyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
t-Butyl alcohol	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Diisopropyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Ethanol	ND	mg/kg	50		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Ethyl t-butyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077	ND	A10
1,2-Dichloroethane-d4 (Surrogate)	58.8	%	70 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077		S09
Toluene-d8 (Surrogate)	128	%	81 - 117 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077		S09
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 09:31	DRS	MS-V3	50	BPH0077		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-05 | **Client Sample Name:** 6034, SB-6, SB-6-@30, 7/21/2006 11:13:00AM, Ben Wright

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	0.25		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Ethylbenzene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Methyl t-butyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Toluene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Total Xylenes	ND	mg/kg	0.50		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
t-Amyl Methyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
t-Butyl alcohol	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Diisopropyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Ethanol	ND	mg/kg	50		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Ethyl t-butyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077	ND	A10
1,2-Dichloroethane-d4 (Surrogate)	65.0	%	70 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077		S09
Toluene-d8 (Surrogate)	131	%	81 - 117 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077		S09
4-Bromofluorobenzene (Surrogate)	108	%	74 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 10:25	DRS	MS-V3	50	BPH0077		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607411-06 | **Client Sample Name:** 6034, SB-6, SB-6-@56, 7/21/2006 2:06:00PM, Ben Wright

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	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Ethylbenzene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Methyl t-butyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Toluene	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Total Xylenes	ND	mg/kg	0.50		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
t-Amyl Methyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
t-Butyl alcohol	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Diisopropyl ether	ND	mg/kg	0.25		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Ethanol	ND	mg/kg	50		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Ethyl t-butyl ether	ND	mg/kg	0.050		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	10		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077	ND	A10
1,2-Dichloroethane-d4 (Surrogate)	75.3	%	70 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077		
Toluene-d8 (Surrogate)	123	%	81 - 117 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077		S09
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260	07/31/06	08/01/06 11:17	DRS	MS-V3	50	BPH0077		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Total Concentrations (TTLC)

BCL Sample ID: 0607411-07 | **Client Sample Name:** 6034, SB-6, SB-6-@5, 7/21/2006 10:00:00AM, Ben Wright

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Lead	7.1	mg/kg	5.0		EPA-6010B	08/02/06	08/03/06 14:52	JCC	TJA61E	1.98	BPH0162	ND	A01

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPG1376	Matrix Spike	0606841-39	ND	22.330	25.000	ug/L		89.3		70 - 130	
		Matrix Spike Duplicate	0606841-39	ND	24.110	25.000	ug/L	7.65	96.4	20	70 - 130	
Toluene	BPG1376	Matrix Spike	0606841-39	ND	20.240	25.000	ug/L		81.0		70 - 130	
		Matrix Spike Duplicate	0606841-39	ND	21.660	25.000	ug/L	6.68	86.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	11.040	10.000	ug/L		110		76 - 114	
		Matrix Spike Duplicate	0606841-39	ND	11.420	10.000	ug/L		114		76 - 114	
Toluene-d8 (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	10.070	10.000	ug/L		101		88 - 110	
		Matrix Spike Duplicate	0606841-39	ND	10.060	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	10.530	10.000	ug/L		105		86 - 115	
		Matrix Spike Duplicate	0606841-39	ND	10.140	10.000	ug/L		101		86 - 115	
Benzene	BPG1378	Matrix Spike	0607409-01	ND	26.630	25.000	ug/L		107		70 - 130	
		Matrix Spike Duplicate	0607409-01	ND	24.860	25.000	ug/L	7.36	99.4	20	70 - 130	
Toluene	BPG1378	Matrix Spike	0607409-01	ND	24.810	25.000	ug/L		99.2		70 - 130	
		Matrix Spike Duplicate	0607409-01	ND	22.340	25.000	ug/L	10.4	89.4	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG1378	Matrix Spike	0607409-01	ND	10.670	10.000	ug/L		107		76 - 114	
		Matrix Spike Duplicate	0607409-01	ND	10.690	10.000	ug/L		107		76 - 114	
Toluene-d8 (Surrogate)	BPG1378	Matrix Spike	0607409-01	ND	9.9300	10.000	ug/L		99.3		88 - 110	
		Matrix Spike Duplicate	0607409-01	ND	9.8000	10.000	ug/L		98.0		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPG1378	Matrix Spike	0607409-01	ND	10.030	10.000	ug/L		100		86 - 115	
		Matrix Spike Duplicate	0607409-01	ND	10.100	10.000	ug/L		101		86 - 115	
Benzene	BPG1381	Matrix Spike	0606841-22	ND	0.10923	0.12500	mg/kg		87.4		70 - 130	
		Matrix Spike Duplicate	0606841-22	ND	0.10016	0.12500	mg/kg	8.72	80.1	20	70 - 130	
Toluene	BPG1381	Matrix Spike	0606841-22	ND	0.10233	0.12500	mg/kg		81.9		70 - 130	
		Matrix Spike Duplicate	0606841-22	ND	0.094710	0.12500	mg/kg	7.74	75.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG1381	Matrix Spike	0606841-22	ND	0.048550	0.050000	mg/kg		97.1		70 - 121	
		Matrix Spike Duplicate	0606841-22	ND	0.045310	0.050000	mg/kg		90.6		70 - 121	

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Toluene-d8 (Surrogate)	BPG1381	Matrix Spike	0606841-22	ND	0.046860	0.050000	mg/kg		93.7		81 - 117	
		Matrix Spike Duplicate	0606841-22	ND	0.048120	0.050000	mg/kg		96.2		81 - 117	
4-Bromofluorobenzene (Surrogate)	BPG1381	Matrix Spike	0606841-22	ND	0.056030	0.050000	mg/kg		112		74 - 121	
		Matrix Spike Duplicate	0606841-22	ND	0.051010	0.050000	mg/kg		102		74 - 121	
Benzene	BPH0077	Matrix Spike	0606841-60	ND	0.11578	0.12500	mg/kg		92.6		70 - 130	
		Matrix Spike Duplicate	0606841-60	ND	0.13008	0.12500	mg/kg	11.6	104	20	70 - 130	
Toluene	BPH0077	Matrix Spike	0606841-60	ND	0.11803	0.12500	mg/kg		94.4		70 - 130	
		Matrix Spike Duplicate	0606841-60	ND	0.12880	0.12500	mg/kg	8.71	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPH0077	Matrix Spike	0606841-60	ND	0.042020	0.050000	mg/kg		84.0		70 - 121	
		Matrix Spike Duplicate	0606841-60	ND	0.042830	0.050000	mg/kg		85.7		70 - 121	
Toluene-d8 (Surrogate)	BPH0077	Matrix Spike	0606841-60	ND	0.054050	0.050000	mg/kg		108		81 - 117	
		Matrix Spike Duplicate	0606841-60	ND	0.050790	0.050000	mg/kg		102		81 - 117	
4-Bromofluorobenzene (Surrogate)	BPH0077	Matrix Spike	0606841-60	ND	0.055870	0.050000	mg/kg		112		74 - 121	
		Matrix Spike Duplicate	0606841-60	ND	0.052530	0.050000	mg/kg		105		74 - 121	

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Lead	BPH0162	Duplicate	0607462-01	197.43	208.21		mg/kg	5.32		20		
		Matrix Spike	0607462-01	197.43	306.37	98.039	mg/kg		111		75 - 125	
		Matrix Spike Duplicate	0607462-01	197.43	322.55	98.039	mg/kg	14.2	128	20	75 - 125	Q03

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPG1376	BPG1376-BS1	LCS	22.010	25.000	1.0	ug/L	88.0		70 - 130		
Toluene	BPG1376	BPG1376-BS1	LCS	19.130	25.000	1.0	ug/L	76.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.950	10.000		ug/L	110		76 - 114		
Toluene-d8 (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.040	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.350	10.000		ug/L	104		86 - 115		
Benzene	BPG1378	BPG1378-BS1	LCS	25.220	25.000	1.0	ug/L	101		70 - 130		
Toluene	BPG1378	BPG1378-BS1	LCS	23.490	25.000	1.0	ug/L	94.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG1378	BPG1378-BS1	LCS	10.330	10.000		ug/L	103		76 - 114		
Toluene-d8 (Surrogate)	BPG1378	BPG1378-BS1	LCS	9.9600	10.000		ug/L	99.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPG1378	BPG1378-BS1	LCS	10.060	10.000		ug/L	101		86 - 115		
Benzene	BPG1381	BPG1381-BS1	LCS	0.10819	0.12500	0.0050	mg/kg	86.6		70 - 130		
Toluene	BPG1381	BPG1381-BS1	LCS	0.10756	0.12500	0.0050	mg/kg	86.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG1381	BPG1381-BS1	LCS	0.045700	0.050000		mg/kg	91.4		70 - 121		
Toluene-d8 (Surrogate)	BPG1381	BPG1381-BS1	LCS	0.049420	0.050000		mg/kg	98.8		81 - 117		
4-Bromofluorobenzene (Surrogate)	BPG1381	BPG1381-BS1	LCS	0.051920	0.050000		mg/kg	104		74 - 121		
Benzene	BPH0077	BPH0077-BS1	LCS	0.11913	0.12500	0.0050	mg/kg	95.3		70 - 130		
Toluene	BPH0077	BPH0077-BS1	LCS	0.12783	0.12500	0.0050	mg/kg	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPH0077	BPH0077-BS1	LCS	0.041690	0.050000		mg/kg	83.4		70 - 121		
Toluene-d8 (Surrogate)	BPH0077	BPH0077-BS1	LCS	0.052230	0.050000		mg/kg	104		81 - 117		
4-Bromofluorobenzene (Surrogate)	BPH0077	BPH0077-BS1	LCS	0.051720	0.050000		mg/kg	103		74 - 121		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Lead	BPH0162	BPH0162-BS1	LCS	10.475	9.3810	2.5	mg/kg	112		75 - 125		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPG1376	BPG1376-BLK1	ND	ug/L	1.0	0.12	
Ethylbenzene	BPG1376	BPG1376-BLK1	ND	ug/L	1.0	0.13	
Methyl t-butyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	2.0	0.15	
Toluene	BPG1376	BPG1376-BLK1	ND	ug/L	1.0	0.15	
Total Xylenes	BPG1376	BPG1376-BLK1	ND	ug/L	1.0	0.40	
t-Amyl Methyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	2.0	0.31	
t-Butyl alcohol	BPG1376	BPG1376-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	2.0	0.25	
Ethanol	BPG1376	BPG1376-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	2.0	0.27	
Total Purgeable Petroleum Hydrocarbons	BPG1376	BPG1376-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	BPG1376-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG1376	BPG1376-BLK1	97.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG1376	BPG1376-BLK1	103	%	86 - 115 (LCL - UCL)		
Benzene	BPG1378	BPG1378-BLK1	ND	ug/L	1.0	0.13	
Ethylbenzene	BPG1378	BPG1378-BLK1	ND	ug/L	1.0	0.14	
Methyl t-butyl ether	BPG1378	BPG1378-BLK1	ND	ug/L	2.0	0.15	
Toluene	BPG1378	BPG1378-BLK1	ND	ug/L	1.0	0.15	
Total Xylenes	BPG1378	BPG1378-BLK1	ND	ug/L	1.0	0.40	
t-Amyl Methyl ether	BPG1378	BPG1378-BLK1	ND	ug/L	2.0	0.31	
t-Butyl alcohol	BPG1378	BPG1378-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BPG1378	BPG1378-BLK1	ND	ug/L	2.0	0.23	
Ethanol	BPG1378	BPG1378-BLK1	ND	ug/L	1000	110	
Ethyl t-butyl ether	BPG1378	BPG1378-BLK1	ND	ug/L	2.0	0.27	
Total Purgeable Petroleum Hydrocarbons	BPG1378	BPG1378-BLK1	ND	ug/L	50	23	

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
1,2-Dichloroethane-d4 (Surrogate)	BPG1378	BPG1378-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG1378	BPG1378-BLK1	97.3	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG1378	BPG1378-BLK1	97.1	%	86 - 115 (LCL - UCL)		
Benzene	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0050	0.0015	
Ethylbenzene	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0050	0.0012	
Methyl t-butyl ether	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0050	0.00051	
Toluene	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	BPG1381	BPG1381-BLK1	ND	mg/kg	0.010	0.0031	
t-Amyl Methyl ether	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0010	0.00064	
t-Butyl alcohol	BPG1381	BPG1381-BLK1	ND	mg/kg	0.20	0.050	
Diisopropyl ether	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0050	0.00079	
Ethanol	BPG1381	BPG1381-BLK1	ND	mg/kg	1.0	0.063	
Ethyl t-butyl ether	BPG1381	BPG1381-BLK1	ND	mg/kg	0.0010	0.00023	
Total Purgeable Petroleum Hydrocarbons	BPG1381	BPG1381-BLK1	ND	mg/kg	0.20	0.14	
1,2-Dichloroethane-d4 (Surrogate)	BPG1381	BPG1381-BLK1	91.9	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG1381	BPG1381-BLK1	99.0	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG1381	BPG1381-BLK1	95.8	%	74 - 121 (LCL - UCL)		
Benzene	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0050	0.0015	
Ethylbenzene	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0050	0.0012	
Methyl t-butyl ether	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0050	0.00051	
Toluene	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	BPH0077	BPH0077-BLK1	ND	mg/kg	0.010	0.0031	
t-Amyl Methyl ether	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0010	0.00064	
t-Butyl alcohol	BPH0077	BPH0077-BLK1	ND	mg/kg	0.20	0.050	
Diisopropyl ether	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0050	0.00079	
Ethanol	BPH0077	BPH0077-BLK1	ND	mg/kg	1.0	0.063	

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Ethyl t-butyl ether	BPH0077	BPH0077-BLK1	ND	mg/kg	0.0010	0.00023	
Total Purgeable Petroleum Hydrocarbons	BPH0077	BPH0077-BLK1	ND	mg/kg	0.20	0.14	
1,2-Dichloroethane-d4 (Surrogate)	BPH0077	BPH0077-BLK1	88.8	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPH0077	BPH0077-BLK1	108	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPH0077	BPH0077-BLK1	93.8	%	74 - 121 (LCL - UCL)		

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Lead	BPH0162	BPH0162-BLK1	ND	mg/kg	2.5	0.29	

Delta Environmental Consultants, Inc.
3164 Gold Camp Road, Suite 200
Rancho Cordova CA, 95670

Project: 6034
Project Number: [none]
Project Manager: Daniel Davis

Reported: 08/07/06 14:09

Notes and Definitions

S09	The surrogate recovery on the sample for this compound was not within the control limits
Q03	Matrix spike recovery(s) is(are) not within the control limits.
Q02	Matrix spike precision is not within the control limits.
J	Estimated value
A10	PQL's and MDL's were raised due to matrix interference.
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 10 01/21/04 Page __ Of __

Submission #: 06-07411 | Project Code: | TB Batch #

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Ice Chest ID R1W Temperature: 3.2 °C Thermometer ID: 48
Emissivity 0.95 Container V09
Date/Time 7/24/16 Analyst Init AMK

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS			/							
PT TOTAL SULFIDE			/							
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A6	A6	"	"	"	"	"	"	"	"
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE			A	A	A	A	A			
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY DISTRIBUTION
MAJK WP1
SUB-OUT ☐

Comments:
Sample Numbering Completed By: AMK Date/Time: 7/25/16 0135

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.

4100 Atlas Court

Bakersfield, CA 93308

(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number: 4506767734

ConocoPhillips Cost Object: WNO1525.E01.R

DATE: 7/24/06

PAGE: 1 of 1

SAMPLING COMPANY: Delta Environmental #06-07411	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 6034	GLOBAL ID NO.: T0600101477
ADDRESS: 3164 Gold Camp Drive, Suite 200 Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4700 First Street, Livermore, California 94550	CONOCOPHILLIPS SITE MANAGER: Shelby Lathrop
PROJECT CONTACT (Hardcopy or PDF Report to): Daniel J. Davis		EDF DELIVERABLE TO (RP or Designee): bwright@deltaenv.com	PHONE NO.: / E-MAIL: / LAB USE ONLY
TELEPHONE: 916-503-1275 / FAX: 916-638-8385 / E-MAIL: ddavis@deltaenv.com			
SAMPLER NAME(S) (Print): Ben Wright	CONSULTANT PROJECT NUMBER: C106034041		

TURNAROUND TIME (CALENDAR DAYS):
☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPH-D Extractable	8260B - TPH-G/ BTEX/ MTBE/ DIPE/ ETBE/TBA/ TAME/ ethanol	8260B - TPPH/ BTEX/ MTBE	8260B - TPH-G/ BTEX/ 8 Oxygenates	8260B - TPH-G/ BTEX/ 8 Oxygenates + methanol (8015M)	8270C - Semi-Volatiles	8015M / 8021B - TPH-G/ BTEX/ MTBE	6010 - Lead ☒Total ☐STLC ☐TCLP
-1	SB-6 @ 18'	7/21/06	1030	Water	6		X						
-2	SB-6 @ 62'	7/21/06	1420	Water	6		X						
-3	SB-6 @ 15'	7/21/06	1020	Soil	1		X						
-4	SB-6 @ 25'	7/21/06	1105	Soil	1		X						
-5	SB-6 @ 30'	7/21/06	1113	Soil	1		X						
-6	SB-6 @ 56'	7/21/06	1406	Soil	1		X						
-7	SB-6 @ 5'	7/21/06	1000	Soil	1								X

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 7/24/06	Time: 1135
Relinquished by: (Signature) 7/24/06 1800	Received by: (Signature)	Date: 7-24-06	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 7/24/06	Time: 2230

9/19/03 Revision

Attachment D
Groundwater Monitoring Well Sampling Report

TRC

August 21, 2006

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 6034
4700 FIRST STREET
LIVERMORE, CALIFORNIA

RE: GROUNDWATER MONITORING WELL SAMPLING REPORT
JULY 19, 2006

Dear Ms. Lathrop:

Please find enclosed our Groundwater Monitoring Well Sampling Report for 76 Station 6034, located at 4700 First Street, Livermore, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Mr. Daniel Davis, Delta Environmental Consultants, Inc. (2 copies)

Enclosures
20-0400/6034R10.QMS

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

TRC

GROUNDWATER MONITORING WELL SAMPLING REPORT
JULY 19, 2006

76 STATION 6034
4700 First Street
Livermore, California

Prepared For:

Ms. Shelby Lathrop
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

Senior Project Geologist, Irvine Operations
August 21, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 7/19/06 Groundwater Sampling Field Notes – 7/19/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2006 through September 2006
76 Station 6034
4700 First Street
Livermore, CA

Project Coordinator: **Shelby Lathrop**
Telephone: **916-558-7609**
Water Sampling Contractor: ***TRC***
Compiled by: **Daniel Lee**
Date(s) of Gauging/Sampling Event: **7/19/06**

Sample Points

Groundwater wells: **7** onsite, **0** offsite Wells gauged: **6** Wells sampled: **6**
Purging method: **Bailer**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **13.62 feet** Maximum: **15.48 feet**
Average groundwater elevation (relative to available local datum): **505.15 feet**
Average change in groundwater elevation since previous event: **0.02 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, north**
Previous event: **0.008 ft/ft, northwest (6/23/06)**

Selected Laboratory Results

Wells with detected **Benzene:** **0** Wells above MCL (1.0 µg/l): **n/a**
Maximum reported benzene concentration: **n/a**

Wells with **TPH-G** **2** Maximum: **140 µg/l (MW-5)**
Wells with **MTBE** **0**

Notes:

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
ug/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to re-survey.

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 6034 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables
Site: 76 Station 6034

Current Event

Historic Data

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 19, 2006

76 Station 6034

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1		**(Screen Interval in feet: 11.0-28.5)**												
07/19/06	520.64	15.48	0.00	505.16	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-2		**(Screen Interval in feet: 11.0-25.0)**												
07/19/06	519.82	15.12	0.00	504.70	0.01	62	--	ND<0.50	ND<0.50	2.1	4.5	--	ND<0.50	
MW-3		**(Screen Interval in feet: 11.0-25.0)**												
07/19/06	519.66	13.96	0.00	505.70	0.02	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-4		**(Screen Interval in feet: 11.0-25.0)**												
07/19/06	519.61	13.62	0.00	505.99	0.06	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-5		**(Screen Interval in feet: 10.0-24.0)**												
07/19/06	520.27	15.31	0.00	504.96	-0.02	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-7		**(Screen Interval in feet: 10.0-24.0)**												
07/19/06	518.83	14.46	0.00	504.37	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 6034

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	DIPE (µg/l)	TAME (µg/l)
MW-1				
07/19/06	ND<10	ND<250	ND<0.50	ND<0.50
MW-2				
07/19/06	ND<10	ND<250	ND<0.50	ND<0.50
MW-3				
07/19/06	ND<10	ND<250	ND<0.50	ND<0.50
MW-4				
07/19/06	ND<10	ND<250	2.2	ND<0.50
MW-5				
07/19/06	ND<10	ND<250	ND<0.50	ND<0.50
MW-7				
07/19/06	ND<10	ND<250	ND<0.50	ND<0.50

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1989 Through July 2006
76 Station 6034

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1	**(Screen Interval in feet: 11.0-28.5)**													
11/18/89	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
03/08/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
06/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
09/07/90	--	--	--	--	--	ND	--	ND	1.2	ND	ND	--	--	
12/24/90	--	--	--	--	--	ND	--	ND	ND	ND	0.4	--	--	
04/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/22/93	520.88	15.47	0.00	505.41	--	--	--	--	--	--	--	--	--	
07/20/93	520.88	18.04	0.00	502.84	-2.57	--	--	--	--	--	--	--	--	
10/20/93	520.64	15.69	0.00	504.95	2.11	--	--	--	--	--	--	--	--	
01/20/94	520.64	15.65	0.00	504.99	0.04	--	--	--	--	--	--	--	--	
04/21/94	520.64	15.58	0.00	505.06	0.07	ND	--	ND	ND	ND	ND	--	--	
07/21/94	520.64	15.62	0.00	505.02	-0.04	--	--	--	--	--	--	--	--	Sampled Annually
10/19/94	520.64	15.28	0.00	505.36	0.34	--	--	--	--	--	--	--	--	
01/18/95	520.64	14.56	0.00	506.08	0.72	--	--	--	--	--	--	--	--	
04/17/95	520.64	14.82	0.00	505.82	-0.26	ND	--	ND	ND	ND	ND	--	--	
07/18/95	520.64	14.78	0.00	505.86	0.04	--	--	--	--	--	--	--	--	
10/17/95	520.64	14.83	0.00	505.81	-0.05	--	--	--	--	--	--	--	--	
01/17/96	520.64	14.96	0.00	505.68	-0.13	--	--	--	--	--	--	--	--	
04/17/96	520.64	14.47	0.00	506.17	0.49	ND	--	ND	ND	ND	ND	ND	--	
07/16/96	520.64	14.57	0.00	506.07	-0.10	--	--	--	--	--	--	--	--	
10/16/96	520.64	14.50	0.00	506.14	0.07	--	--	--	--	--	--	--	--	
04/08/97	520.64	15.05	0.00	505.59	-0.55	--	--	--	--	--	--	--	--	Sampling Discontinued

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
10/06/97	520.64	15.00	0.00	505.64	0.05	--	--	--	--	--	--	--	--	
04/02/98	520.64	14.80	0.00	505.84	0.20	--	--	--	--	--	--	--	--	
10/07/98	520.64	14.72	0.00	505.92	0.08	--	--	--	--	--	--	--	--	
04/14/99	520.64	14.89	0.00	505.75	-0.17	--	--	--	--	--	--	--	--	
10/12/99	520.64	14.79	0.00	505.85	0.10	--	--	--	--	--	--	--	--	
04/10/00	520.64	14.93	0.00	505.71	-0.14	--	--	--	--	--	--	--	--	
10/02/00	520.64	15.18	0.00	505.46	-0.25	--	--	--	--	--	--	--	--	
04/02/01	520.64	14.72	0.00	505.92	0.46	--	--	--	--	--	--	--	--	
10/05/01	520.64	15.51	0.00	505.13	-0.79	--	--	--	--	--	--	--	--	
04/01/02	520.64	15.40	0.00	505.24	0.11	--	--	--	--	--	--	--	--	
10/16/02	520.64	15.54	0.00	505.10	-0.14	--	--	--	--	--	--	--	--	
04/03/03	520.64	15.41	0.00	505.23	0.13	--	--	--	--	--	--	--	--	
10/02/03	520.64	15.58	0.00	505.06	-0.17	--	--	--	--	--	--	--	--	Monitored Only
04/30/04	520.64	15.65	0.00	504.99	-0.07	--	--	--	--	--	--	--	--	Monitored only
12/01/04	520.64	15.81	0.00	504.83	-0.16	--	--	--	--	--	--	--	--	Sampled Semi-Annually
06/13/05	520.64	15.49	0.00	505.15	0.32	--	--	--	--	--	--	--	--	Monitored Only
10/24/05	520.64	15.63	0.00	505.01	-0.14	--	--	--	--	--	--	--	--	Monitored Only
06/23/06	520.64	15.49	0.00	505.15	0.14	--	--	--	--	--	--	--	--	Monitored Only
07/19/06	520.64	15.48	0.00	505.16	0.01	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-2	**(Screen Interval in feet: 11.0-25.0)**													
11/18/89	--	--	--	--	--	53000	--	540	500	130	22000	--	--	
03/08/90	--	--	--	--	--	26000	--	230	410	1300	2100	--	--	
06/05/90	--	--	--	--	--	31000	--	250	460	950	9200	--	--	
09/07/90	--	--	--	--	--	ND	--	ND	1.5	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1989 Through July 2006
76 Station 6034

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-2 continued														
12/24/90	--	--	--	--	--	32000	--	440	340	460	13000	--	--	
04/10/91	--	--	--	--	--	22000	--	170	190	490	6200	--	--	
07/10/91	--	--	--	--	--	14000	--	70	160	570	5400	--	--	
10/14/91	--	--	--	--	--	11000	--	79	130	660	4700	--	--	
01/14/92	--	--	--	--	--	5600	--	36	120	450	2600	--	--	
04/06/92	--	--	--	--	--	760	--	6.3	2.1	ND	130	--	--	
07/07/92	--	--	--	--	--	44000	--	160	1100	1000	17000	--	--	
10/16/92	--	--	--	--	--	290	--	2.3	ND	5.1	15	--	--	
01/14/93	--	--	--	--	--	19000	--	75	430	900	8400	--	--	
04/22/93	520.17	14.98	0.00	505.19	--	49000	--	150	1000	3000	18000	--	--	
07/20/93	520.17	17.41	0.00	502.76	-2.43	25000	--	68	94	1000	6200	--	--	
10/20/93	519.82	15.08	0.00	504.74	1.98	12000	--	27	10	100	3000	--	--	
01/20/94	519.82	15.02	0.00	504.80	0.06	20000	--	ND	ND	270	3300	--	--	
04/21/94	519.82	14.96	0.00	504.86	0.06	27000	--	85	65	880	5300	--	--	
07/21/94	519.82	14.99	0.00	504.83	-0.03	31000	--	58	29	940	6200	--	--	
10/19/94	519.82	14.80	0.00	505.02	0.19	4100	--	16	3.5	8.6	1100	--	--	
01/18/95	519.82	14.10	0.00	505.72	0.70	5100	--	6.8	7.3	100	1500	--	--	
04/17/95	519.82	14.13	0.00	505.69	-0.03	320	--	1.3	0.67	6.6	74	--	--	
07/18/95	519.82	14.11	0.00	505.71	0.02	12000	--	25	24	550	3700	--	--	
10/17/95	519.82	14.15	0.00	505.67	-0.04	77000	--	60	58	760	8300	220	--	
01/17/96	519.82	14.35	0.00	505.47	-0.20	7000	--	15	ND	150	1600	370	--	
04/17/96	519.82	13.93	0.00	505.89	0.42	19000	--	ND	ND	600	4900	6100	--	
07/16/96	519.82	14.00	0.00	505.82	-0.07	23000	--	16	22	900	4500	410	--	
10/16/96	519.82	14.12	0.00	505.70	-0.12	14000	--	28	31	1600	6900	9600	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
01/13/97	519.82	--	--	--	--	4300	--	12	5.0	28	890	1300	--	
04/08/97	519.82	14.49	0.00	505.33	--	4700	--	ND	6.5	170	830	290	--	
10/06/97	519.82	14.41	0.00	505.41	0.08	5800	--	14	ND	19	860	570	--	
04/02/98	519.82	14.26	0.00	505.56	0.15	24000	--	ND	ND	980	5200	6800	--	
10/07/98	519.82	14.35	0.00	505.47	-0.09	41000	--	ND	ND	2100	7800	3700	2700	
04/14/99	519.82	14.54	0.00	505.28	-0.19	720	--	1.2	ND	29	260	95	57	
10/12/99	519.82	14.50	0.00	505.32	0.04	2200	--	ND	ND	78	480	52	11	
04/10/00	519.82	14.72	0.00	505.10	-0.22	ND	--	ND	ND	0.815	2.99	28.5	40.1	
10/02/00	519.82	14.91	0.00	504.91	-0.19	ND	--	ND	ND	0.71	1.0	9.2	11	
04/02/01	519.82	14.12	0.00	505.70	0.79	ND	--	ND	ND	ND	ND	ND	ND	
10/05/01	519.82	15.02	0.00	504.80	-0.90	1300	--	4.4	ND<2.5	29	79	ND<25	12	
04/01/02	519.82	14.94	0.00	504.88	0.08	3500	--	5.1	ND<5.0	120	460	ND<50	14	
10/16/02	519.82	15.06	0.00	504.76	-0.12	240	--	ND<0.50	ND<0.50	8.2	15	--	ND<2.0	
04/03/03	519.82	14.96	0.00	504.86	0.10	1300	--	1.5	1.8	23	160	--	6.6	
10/02/03	519.82	15.11	0.00	504.71	-0.15	--	15000	ND<13	ND<13	290	1400	--	ND<50	
04/30/04	519.82	15.25	0.00	504.57	-0.14	--	8000	ND<13	ND<13	140	550	--	ND<13	
12/01/04	519.82	15.37	0.00	504.45	-0.12	--	4700	ND<1.0	ND<1.0	81	240	--	5.9	
06/13/05	519.82	15.12	0.00	504.70	0.25	--	3300	ND<0.50	ND<0.50	47	200	--	2.5	
10/24/05	519.82	15.23	0.00	504.59	-0.11	--	270	ND<0.50	ND<0.50	4.6	10	--	1.5	
06/23/06	519.82	15.13	0.00	504.69	0.10	--	160	ND<0.50	ND<0.50	3.1	8.1	--	1.1	
07/19/06	519.82	15.12	0.00	504.70	0.01	62	--	ND<0.50	ND<0.50	2.1	4.5	--	ND<0.50	
MW-3	**(Screen Interval in feet: 11.0-25.0)**													
11/18/89	--	--	--	--	--	ND	--	0.35	ND	ND	ND	--	--	
03/08/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
06/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
09/07/90	--	--	--	--	--	1100	--	11	ND	6.6	16	--	--	
12/24/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/14/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/14/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/16/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/14/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/22/93	519.91	14.33	0.00	505.58	--	ND	--	ND	ND	ND	ND	--	--	
07/20/93	519.91	16.90	0.00	503.01	-2.57	ND	--	ND	ND	ND	ND	--	--	
10/20/93	519.66	14.42	0.00	505.24	2.23	ND	--	ND	ND	ND	ND	--	--	
01/20/94	519.66	14.37	0.00	505.29	0.05	--	--	--	--	--	--	--	--	Sampled Annually
04/21/94	519.66	14.30	0.00	505.36	0.07	ND	--	ND	ND	ND	ND	--	--	
07/21/94	519.66	14.34	0.00	505.32	-0.04	--	--	--	--	--	--	--	--	Sampled Semi-Annually
10/19/94	519.66	14.08	0.00	505.58	0.26	ND	--	ND	0.61	ND	0.51	--	--	
01/18/95	519.66	13.23	0.00	506.43	0.85	--	--	--	--	--	--	--	--	
04/17/95	519.66	13.20	0.00	506.46	0.03	ND	--	ND	ND	ND	ND	--	--	
07/18/95	519.66	13.19	0.00	506.47	0.01	--	--	--	--	--	--	--	--	
10/17/95	519.66	13.24	0.00	506.42	-0.05	ND	--	ND	ND	ND	ND	ND	--	Sampled Annually
01/17/96	519.66	13.68	0.00	505.98	-0.44	--	--	--	--	--	--	--	--	
04/17/96	519.66	13.04	0.00	506.62	0.64	ND	--	ND	ND	ND	ND	ND	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
07/16/96	519.66	13.24	0.00	506.42	-0.20	--	--	--	--	--	--	--	--	
10/16/96	519.66	13.10	0.00	506.56	0.14	--	--	--	--	--	--	--	--	
04/08/97	519.66	13.73	0.00	505.93	-0.63	--	--	--	--	--	--	--	--	Sampling Discontinued
10/06/97	519.66	13.70	0.00	505.96	0.03	--	--	--	--	--	--	--	--	
04/02/98	519.66	13.43	0.00	506.23	0.27	--	--	--	--	--	--	--	--	
10/07/98	519.66	13.33	0.00	506.33	0.10	--	--	--	--	--	--	--	--	
04/14/99	519.66	13.47	0.00	506.19	-0.14	--	--	--	--	--	--	--	--	
10/12/99	519.66	13.38	0.00	506.28	0.09	--	--	--	--	--	--	--	--	
04/10/00	519.66	13.51	0.00	506.15	-0.13	--	--	--	--	--	--	--	--	
10/02/00	519.66	13.62	0.00	506.04	-0.11	--	--	--	--	--	--	--	--	
04/02/01	519.66	13.38	0.00	506.28	0.24	--	--	--	--	--	--	--	--	
10/05/01	519.66	14.10	0.00	505.56	-0.72	--	--	--	--	--	--	--	--	
04/01/02	519.66	13.98	0.00	505.68	0.12	--	--	--	--	--	--	--	--	
10/16/02	519.66	14.16	0.00	505.50	-0.18	--	--	--	--	--	--	--	--	
04/03/03	519.66	13.98	0.00	505.68	0.18	--	--	--	--	--	--	--	--	
10/02/03	519.66	14.15	0.00	505.51	-0.17	--	--	--	--	--	--	--	--	Monitored Only
04/30/04	519.66	14.20	0.00	505.46	-0.05	--	--	--	--	--	--	--	--	Monitored only
12/01/04	519.66	14.37	0.00	505.29	-0.17	--	--	--	--	--	--	--	--	Sampled Semi-Annually
06/13/05	519.66	13.98	0.00	505.68	0.39	--	--	--	--	--	--	--	--	Monitored Only
10/24/05	519.66	14.17	0.00	505.49	-0.19	--	--	--	--	--	--	--	--	Monitored Only
06/23/06	519.66	13.98	0.00	505.68	0.19	--	--	--	--	--	--	--	--	Monitored Only
07/19/06	519.66	13.96	0.00	505.70	0.02	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-4	**(Screen Interval in feet: 11.0-25.0)**													
11/18/89	--	--	--	--	--	990	--	9.8	10	7.1	4.7	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1989 Through July 2006
76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
03/08/90	--	--	--	--	--	1200	--	18	8.4	37	28	--	--	
06/05/90	--	--	--	--	--	1400	--	1.2	4.7	24	12	--	--	
09/07/90	--	--	--	--	--	15000	--	100	140	210	4600	--	--	
12/24/90	--	--	--	--	--	1400	--	ND	8.7	15	10	--	--	
04/10/91	--	--	--	--	--	950	--	0.84	4.3	9.6	5.0	--	--	
07/10/91	--	--	--	--	--	830	--	8.4	19	7.7	7.2	--	--	
10/14/91	--	--	--	--	--	880	--	3.8	2.2	8.6	5.8	--	--	
01/14/92	--	--	--	--	--	1500	--	4.2	7.1	18	9.2	--	--	
04/06/92	--	--	--	--	--	660	--	1.3	3.8	2.9	4.1	--	--	
07/07/92	--	--	--	--	--	340	--	ND	2.2	2.4	2.4	--	--	
10/16/92	--	--	--	--	--	300	--	2.1	ND	4.8	13	--	--	
01/14/93	--	--	--	--	--	920	--	ND	6.3	12	3.9	--	--	
04/22/93	520.12	14.30	0.00	505.82	--	1100	--	8.8	1.0	7.2	6.0	--	--	
07/20/93	520.12	16.35	0.00	503.77	-2.05	--	--	--	--	--	--	--	--	Not sampled - Sampling access denied
10/20/93	519.61	14.16	0.00	505.45	1.68	640	--	ND	2.5	2.3	1.9	--	--	
01/20/94	519.61	14.15	0.00	505.46	0.01	1200	--	ND	2.6	4.7	7.4	--	--	
04/21/94	519.61	14.13	0.00	505.48	0.02	380	--	0.83	1.2	1.2	1.7	--	--	
07/21/94	519.61	14.26	0.00	505.35	-0.13	320	--	0.51	1.4	1.0	1.6	--	--	
10/19/94	519.61	13.95	0.00	505.66	0.31	750	--	ND	3.6	4.2	3.4	--	--	
01/18/95	519.61	13.16	0.00	506.45	0.79	790	--	1.5	3.3	1.2	2.6	--	--	
04/17/95	519.61	13.19	0.00	506.42	-0.03	570	--	2.8	ND	3.3	3.9	--	--	
07/18/95	519.61	13.21	0.00	506.40	-0.02	340	--	1.0	1.9	2.8	2.7	--	--	
10/17/95	519.61	13.22	0.00	506.39	-0.01	260	--	1.1	0.57	0.69	1.6	2.0	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-4 continued														
01/17/96	519.61	13.02	0.00	506.59	0.20	--	--	--	--	--	--	--	--	Sampled Semi-Annually
04/17/96	519.61	13.08	0.00	506.53	-0.06	720	--	3.0	2.6	6.1	6.9	ND	--	
07/16/96	519.61	12.91	0.00	506.70	0.17	--	--	--	--	--	--	--	--	
10/16/96	519.61	12.98	0.00	506.63	-0.07	1100	--	6.6	23	24	85	15	--	
01/13/97	519.61	--	0.00	--	--	--	--	--	--	--	--	--	--	
04/08/97	519.61	13.36	0.00	506.25	--	470	--	1.2	1.9	1.2	6.9	ND	--	
10/06/97	519.61	13.42	0.00	506.19	-0.06	240	--	ND	0.85	0.83	2.3	ND	--	
04/02/98	519.61	12.76	0.00	506.85	0.66	270	--	ND	1.2	ND	4.5	10	--	
10/07/98	519.61	13.04	0.00	506.57	-0.28	350	--	ND	ND	ND	4.8	ND	--	
04/14/99	519.61	13.21	0.00	506.40	-0.17	250	--	1.6	ND	3.1	5.6	ND	16	
10/12/99	519.61	13.16	0.00	506.45	0.05	200	--	1.4	ND	2.3	3.9	ND	--	
04/10/00	519.61	13.48	0.00	506.13	-0.32	52.8	--	ND	ND	ND	ND	ND	--	
10/02/00	519.61	13.25	0.00	506.36	0.23	57	--	ND	ND	0.50	0.90	30	--	
04/02/01	519.61	13.11	0.00	506.50	0.14	ND	--	ND	ND	ND	ND	ND	--	
10/05/01	519.61	14.04	0.00	505.57	-0.93	150	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
04/01/02	519.61	13.76	0.00	505.85	0.28	130	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
10/16/02	519.61	14.10	0.00	505.51	-0.34	130	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.8	
04/03/03	519.61	13.69	0.00	505.92	0.41	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
10/02/03	519.61	14.20	0.00	505.41	-0.51	--	81	ND<0.50	0.86	4.1	9.4	--	ND<2.0	
04/30/04	519.61	14.12	0.00	505.49	0.08	--	51	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.5	
12/01/04	519.61	14.17	0.00	505.44	-0.05	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
06/13/05	519.61	13.68	0.00	505.93	0.49	--	69	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.60	
10/24/05	519.61	14.01	0.00	505.60	-0.33	--	66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/06	519.61	13.68	0.00	505.93	0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
07/19/06	519.61	13.62	0.00	505.99	0.06	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-5	**(Screen Interval in feet: 10.0-24.0)**													
04/10/91	--	--	--	--	--	630	--	35	14	47	30	--	--	
07/10/91	--	--	--	--	--	220	--	5.1	8.7	9.1	9.7	--	--	
10/14/91	--	--	--	--	--	660	--	55	4.4	50	66	--	--	
01/14/92	--	--	--	--	--	99	--	1.0	1.2	ND	0.32	1.2	--	
04/06/92	--	--	--	--	--	240	--	ND	ND	0.35	ND	--	--	
07/07/92	--	--	--	--	--	76	--	0.48	1.1	0.32	1.3	1.5	--	
10/16/92	--	--	--	--	--	180	--	7.8	1.1	17	6.4	2.0	--	
01/14/93	--	--	--	--	--	91	--	ND	0.53	1.2	11	--	--	
04/22/93	520.58	15.24	0.00	505.34	--	94	--	1.2	ND	ND	1.3	0.82	--	
07/20/93	520.58	17.38	0.00	503.20	-2.14	89	--	1.1	0.51	ND	1.8	2.2	--	
10/20/93	520.27	15.56	0.00	504.71	1.51	110	--	0.8	ND	ND	ND	--	--	
01/20/94	520.27	15.39	0.00	504.88	0.17	ND	--	ND	ND	ND	ND	--	--	
04/21/94	520.27	15.41	0.00	504.86	-0.02	ND	--	ND	ND	ND	ND	--	--	
07/21/94	520.27	15.55	0.00	504.72	-0.14	ND	--	ND	ND	ND	ND	--	--	
10/19/94	520.27	15.20	0.00	505.07	0.35	ND	--	ND	0.71	ND	0.57	--	--	
01/18/95	520.27	14.52	0.00	505.75	0.68	ND	--	ND	ND	ND	ND	--	--	
04/17/95	520.27	14.50	0.00	505.77	0.02	ND	--	ND	ND	ND	ND	--	--	
07/18/95	520.27	14.41	0.00	505.86	0.09	ND	--	ND	ND	ND	1.1	--	--	
10/17/95	520.27	14.46	0.00	505.81	-0.05	ND	--	ND	ND	ND	ND	ND	--	
01/17/96	520.27	14.48	0.00	505.79	-0.02	--	--	--	--	--	--	--	--	Sampled Annually
04/17/96	520.27	14.22	0.00	506.05	0.26	ND	--	ND	ND	ND	ND	ND	--	
07/16/96	520.27	14.27	0.00	506.00	-0.05	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
10/16/96	520.27	14.15	0.00	506.12	0.12	--	--	--	--	--	--	--	--	
04/08/97	520.27	14.71	0.00	505.56	-0.56	--	--	--	--	--	--	--	--	Sampling Discontinued
10/06/97	520.27	14.71	0.00	505.56	0.00	--	--	--	--	--	--	--	--	
04/02/98	520.27	14.28	0.00	505.99	0.43	--	--	--	--	--	--	--	--	
10/07/98	520.27	14.40	0.00	505.87	-0.12	--	--	--	--	--	--	--	--	
04/14/99	520.27	14.63	0.00	505.64	-0.23	--	--	--	--	--	--	--	--	
10/12/99	520.27	14.48	0.00	505.79	0.15	--	--	--	--	--	--	--	--	
04/10/00	520.27	14.76	0.00	505.51	-0.28	--	--	--	--	--	--	--	--	
10/02/00	520.27	14.65	0.00	505.62	0.11	--	--	--	--	--	--	--	--	
04/02/01	520.27	14.20	0.00	506.07	0.45	--	--	--	--	--	--	--	--	
10/05/01	520.27	15.47	0.00	504.80	-1.27	--	--	--	--	--	--	--	--	
04/01/02	520.27	15.18	0.00	505.09	0.29	--	--	--	--	--	--	--	--	
10/16/02	520.27	15.50	0.00	504.77	-0.32	--	--	--	--	--	--	--	--	
04/03/03	520.27	15.14	0.00	505.13	0.36	--	--	--	--	--	--	--	--	
10/02/03	520.27	15.66	0.00	504.61	-0.52	--	--	--	--	--	--	--	--	Monitored Only
04/30/04	520.27	15.55	0.00	504.72	0.11	--	--	--	--	--	--	--	--	Monitored only
12/01/04	520.27	15.62	0.00	504.65	-0.07	--	--	--	--	--	--	--	--	Sampled Semi-Anually
06/13/05	520.27	15.31	0.00	504.96	0.31	--	--	--	--	--	--	--	--	Monitored Only
10/24/05	520.27	15.51	0.00	504.76	-0.20	--	--	--	--	--	--	--	--	Monitored Only
06/23/06	520.27	15.29	0.00	504.98	0.22	--	--	--	--	--	--	--	--	Monitored Only
07/19/06	520.27	15.31	0.00	504.96	-0.02	140	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
MW-6	**(Screen Interval in feet: 10.0-24.0)**													
04/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
10/14/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/14/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/16/92	--	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed
01/14/93	--	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed
04/22/93	519.34	--	0.00	--	--	--	--	--	--	--	--	--	--	Obstructed
07/20/93	519.34	--	0.00	--	--	--	--	--	--	--	--	--	--	Obstructed
10/20/93	518.75	14.20	0.00	504.55	--	ND	--	ND	ND	ND	ND	--	--	
01/20/94	518.75	14.14	0.00	504.61	0.06	ND	--	ND	ND	ND	ND	--	--	
04/21/94	518.75	14.10	0.00	504.65	0.04	ND	--	ND	ND	ND	ND	--	--	
07/21/94	518.75	14.12	0.00	504.63	-0.02	ND	--	ND	ND	ND	ND	--	--	
10/19/94	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
01/18/95	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
04/17/95	518.75	13.82	0.00	504.93	--	ND	--	ND	ND	ND	ND	--	--	
07/18/95	518.75	13.84	0.00	504.91	-0.02	ND	--	ND	ND	ND	ND	--	--	
10/17/95	518.75	13.90	0.00	504.85	-0.06	ND	--	ND	ND	ND	ND	2.2	--	
01/17/96	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Sampled Annually - Obstructed by roots
04/17/96	518.75	13.66	0.00	505.09	--	ND	--	ND	ND	ND	ND	ND	--	
07/16/96	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
10/16/96	518.75	13.72	0.00	505.03	--	--	--	--	--	--	--	--	--	
04/08/97	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
10/06/97	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
04/02/98	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
10/07/98	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstructed by roots
04/14/99	518.75	13.82	0.00	504.93	--	--	--	--	--	--	--	--	--	
10/12/99	518.75	13.72	0.00	505.03	0.10	--	--	--	--	--	--	--	--	
04/10/00	518.75	13.40	0.00	505.35	0.32	--	--	--	--	--	--	--	--	
10/02/00	518.75	13.63	0.00	505.12	-0.23	--	--	--	--	--	--	--	--	
04/02/01	518.75	13.31	0.00	505.44	0.32	--	--	--	--	--	--	--	--	
10/05/01	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstruction in Well
04/01/02	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Obstruction in Well
10/16/02	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry
04/03/03	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry
10/02/03	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
04/30/04	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/01/04	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/13/05	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
10/24/05	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
06/23/06	518.75	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
MW-7	**(Screen Interval in feet: 10.0-24.0)**													
04/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/10/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
10/14/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/14/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/06/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
07/07/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1989 Through July 2006
76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
10/16/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
01/14/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
04/22/93	519.37	14.25	0.00	505.12	--	ND	--	ND	ND	ND	ND	--	--	
07/20/93	519.37	16.68	0.00	502.69	-2.43	ND	--	ND	ND	ND	ND	--	--	
10/20/93	518.83	14.29	0.00	504.54	1.85	ND	--	ND	ND	ND	ND	--	--	
01/20/94	518.83	14.22	0.00	504.61	0.07	ND	--	ND	ND	ND	ND	--	--	
04/21/94	518.83	14.17	0.00	504.66	0.05	ND	--	ND	ND	ND	ND	--	--	
07/21/94	518.83	14.21	0.00	504.62	-0.04	ND	--	ND	ND	ND	ND	--	--	
10/19/94	518.83	14.05	0.00	504.78	0.16	ND	--	ND	0.87	ND	0.61	--	--	
01/18/95	518.83	13.34	0.00	505.49	0.71	ND	--	ND	ND	ND	ND	--	--	
04/17/95	518.83	13.38	0.00	505.45	-0.04	ND	--	ND	ND	ND	ND	--	--	
07/18/95	518.83	13.36	0.00	505.47	0.02	ND	--	ND	ND	ND	ND	--	--	
10/17/95	518.83	13.41	0.00	505.42	-0.05	ND	--	ND	ND	ND	ND	3.5	--	
01/17/96	518.83	13.56	0.00	505.27	-0.15	--	--	--	--	--	--	--	--	Sampled Annually
04/17/96	518.83	13.21	0.00	505.62	0.35	ND	--	ND	ND	ND	ND	ND	--	
07/16/96	518.83	13.22	0.00	505.61	-0.01	--	--	--	--	--	--	--	--	
10/16/96	518.83	13.58	0.00	505.25	-0.36	--	--	--	--	--	--	--	--	
04/08/97	518.83	13.73	0.00	505.10	-0.15	--	--	--	--	--	--	--	--	Sampling Discontinued
10/06/97	518.83	13.65	0.00	505.18	0.08	--	--	--	--	--	--	--	--	
04/02/98	518.83	13.55	0.00	505.28	0.10	--	--	--	--	--	--	--	--	
10/07/98	518.83	13.64	0.00	505.19	-0.09	--	--	--	--	--	--	--	--	
04/14/99	518.83	13.75	0.00	505.08	-0.11	--	--	--	--	--	--	--	--	
10/12/99	518.83	13.61	0.00	505.22	0.14	--	--	--	--	--	--	--	--	
04/10/00	518.83	13.85	0.00	504.98	-0.24	--	--	--	--	--	--	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1989 Through July 2006

76 Station 6034

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
10/02/00	518.83	14.19	0.00	504.64	-0.34	--	--	--	--	--	--	--	--	
04/02/01	518.83	13.86	0.00	504.97	0.33	--	--	--	--	--	--	--	--	Sampling Discontinued
10/05/01	518.83	14.30	0.00	504.53	-0.44	--	--	--	--	--	--	--	--	
04/01/02	518.83	14.23	0.00	504.60	0.07	--	--	--	--	--	--	--	--	
10/16/02	518.83	14.30	0.00	504.53	-0.07	--	--	--	--	--	--	--	--	
04/03/03	518.83	14.27	0.00	504.56	0.03	--	--	--	--	--	--	--	--	
10/02/03	518.83	14.35	0.00	504.48	-0.08	--	--	--	--	--	--	--	--	Monitored Only
04/30/04	518.83	14.35	0.00	504.48	0.00	--	--	--	--	--	--	--	--	Monitored only
12/01/04	518.83	14.66	0.00	504.17	-0.31	--	--	--	--	--	--	--	--	Sampled Semi-Annually
06/13/05	518.83	15.47	0.00	503.36	-0.81	--	--	--	--	--	--	--	--	Monitored Only
10/24/05	518.83	15.65	0.00	503.18	-0.18	--	--	--	--	--	--	--	--	Monitored Only
06/23/06	518.83	14.49	0.00	504.34	1.16	--	--	--	--	--	--	--	--	Monitored Only
07/19/06	518.83	14.46	0.00	504.37	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6034

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	Chloroform	Trichloro-ethene (TCE)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)
MW-1												
03/08/90	--	--	--	--	--	--	--	4.7	ND	ND	--	--
06/05/90	--	--	--	--	--	--	--	ND	ND	ND	--	--
09/07/90	--	--	--	--	--	--	--	ND	ND	ND	--	--
12/24/90	--	--	--	--	--	--	--	ND	ND	ND	--	--
04/10/91	--	--	--	--	--	--	--	ND	ND	ND	--	--
07/10/91	--	--	--	--	--	--	--	ND	ND	ND	--	--
04/21/94	--	--	--	--	--	--	--	ND	ND	ND	--	--
04/17/95	--	--	--	--	--	--	--	ND	0.69	ND	--	--
04/17/96	--	--	--	--	--	--	--	ND	ND	ND	--	--
07/16/96	--	--	--	--	--	--	--	--	--	--	4.28	4.24
07/19/06	ND<10	ND<250	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
MW-2												
07/18/95	--	--	--	--	--	--	--	--	--	--	4.22	--
10/17/95	--	--	--	--	--	--	--	--	--	--	3.96	--
01/17/96	--	--	--	--	--	--	--	--	--	--	5.25	--
04/17/96	--	--	--	--	--	--	--	--	--	--	2.59	--
07/16/96	--	--	--	--	--	--	--	--	--	--	4.35	4.46
10/16/96	--	--	--	--	--	--	--	--	--	--	2.92	3.87
01/13/97	--	--	--	--	--	--	--	--	--	--	--	4.76
04/08/97	--	--	--	--	--	--	--	--	--	--	3.42	3.76
10/06/97	--	--	--	--	--	--	--	--	--	--	3.59	4.13
04/02/98	--	--	--	--	--	--	--	--	--	--	3.16	6.32
10/07/98	--	--	--	--	--	--	--	--	--	--	--	3.85
04/14/99	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	3.14
10/12/99	ND	ND	--	--	ND	ND	ND	--	--	--	--	2.96
04/10/00	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	3.47

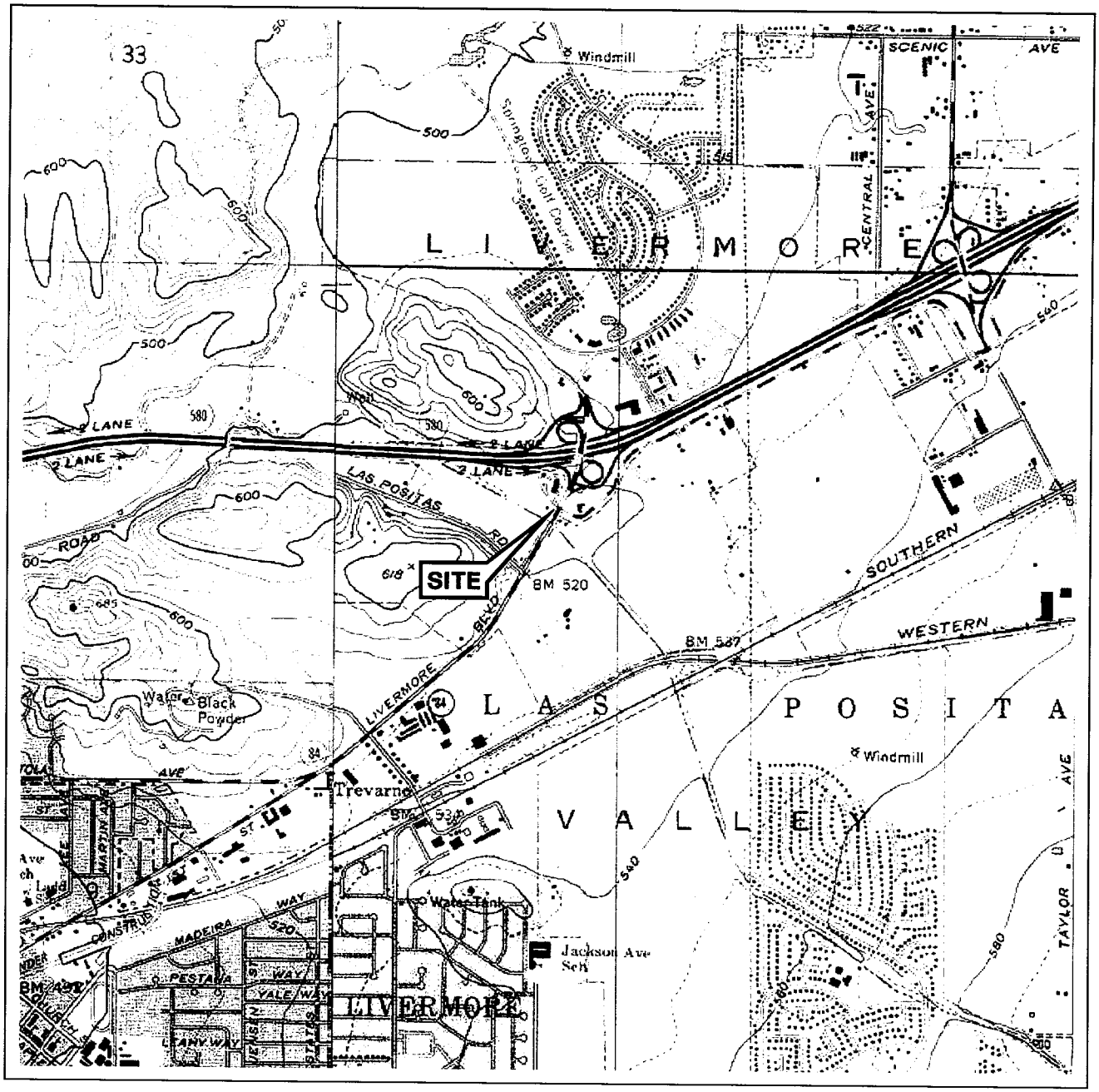
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6034

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	Chloroform	Trichloro-ethene (TCE)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)
MW-2 continued												
10/02/00	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	3.77
04/02/01	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	3.95
10/05/01	ND<100	ND<1000	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--	2.89
04/01/02	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--	3.15
10/16/02	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--	3.08
04/03/03	ND<100	ND<500	ND<2	ND<2	ND<2	ND<2	ND<2	--	--	--	--	2.60
10/02/03	ND<2500	ND<13000	ND<50	ND<50	ND<50	ND<50	ND<50	--	--	--	--	3.53
04/30/04	ND<130	ND<1300	ND<13	ND<13	ND<25	ND<13	ND<13	--	--	--	--	1.78
12/01/04	32	ND<100	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	--	--	--	5.66	5.42
06/13/05	9.6	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	4.79	5.76
10/24/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	2.16	2.29
06/23/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	4.53
07/19/06	ND<10	ND<250	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
MW-3												
07/16/96	--	--	--	--	--	--	--	--	--	--	4.20	4.19
07/19/06	ND<10	ND<250	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
MW-4												
07/16/96	--	--	--	--	--	--	--	--	--	--	4.30	4.25
01/13/97	--	--	--	--	--	--	--	--	--	--	--	4.97
04/14/99	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
10/02/03	--	ND<500	--	--	--	--	--	--	--	--	--	--
04/30/04	--	ND<50	--	--	--	--	--	--	--	--	--	--
12/01/04	--	ND<50	--	--	--	--	--	--	--	--	--	--
06/13/05	--	ND<50	--	--	--	--	--	--	--	--	--	--
10/24/05	--	ND<250	--	--	--	--	--	--	--	--	--	--
06/23/06	--	ND<250	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6034

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	Chloroform	Trichloro-ethene (TCE)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)
MW-4 continued												
07/19/06	ND<10	ND<250	--	--	2.2	--	ND<0.50	--	--	--	--	--
MW-5												
07/16/96	--	--	--	--	--	--	--	--	--	--	4.21	4.18
07/19/06	ND<10	ND<250	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--
MW-7												
07/16/96	--	--	--	--	--	--	--	--	--	--	4.19	4.20
07/19/06	ND<10	ND<250	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--

FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1: 24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Livermore & Altamont Quadrangles

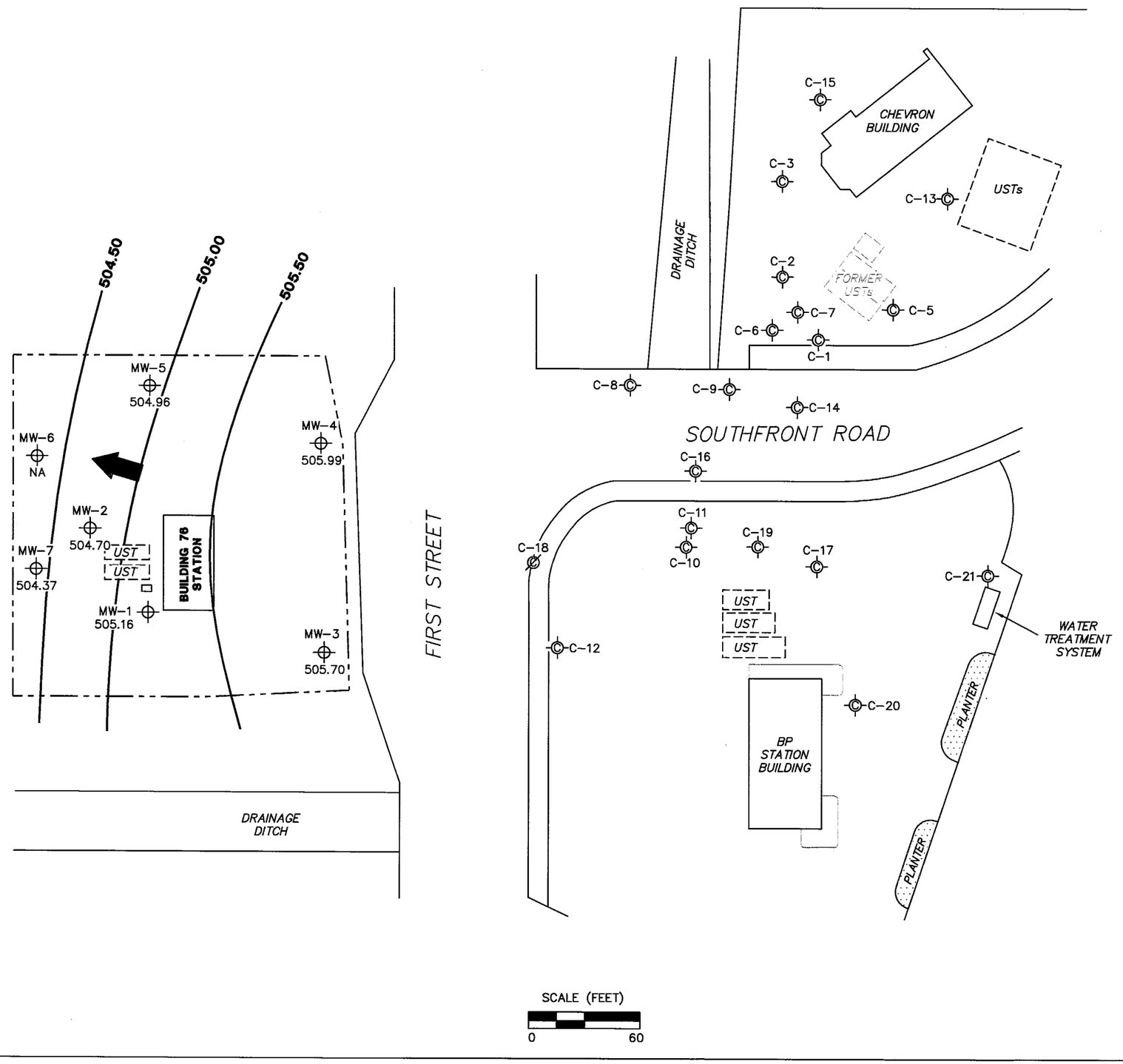
VICINITY MAP

76 Station 6034
4700 First Street
Livermore, California

FIGURE 1

TRC

PS = 1:1 L:\VICINITY MAPS\6034vm.dwg Aug 11, 2006 - 9:52am lwinters



N

LEGEND

MW-7 ⊕ Monitoring Well with Groundwater Elevation (feet)

C-21 ⊕ Chevron Monitoring Well

C-18 ⊘ Abandoned Chevron Well

505.50 — Groundwater Elevation Contour

General Direction of Groundwater Flow

NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.

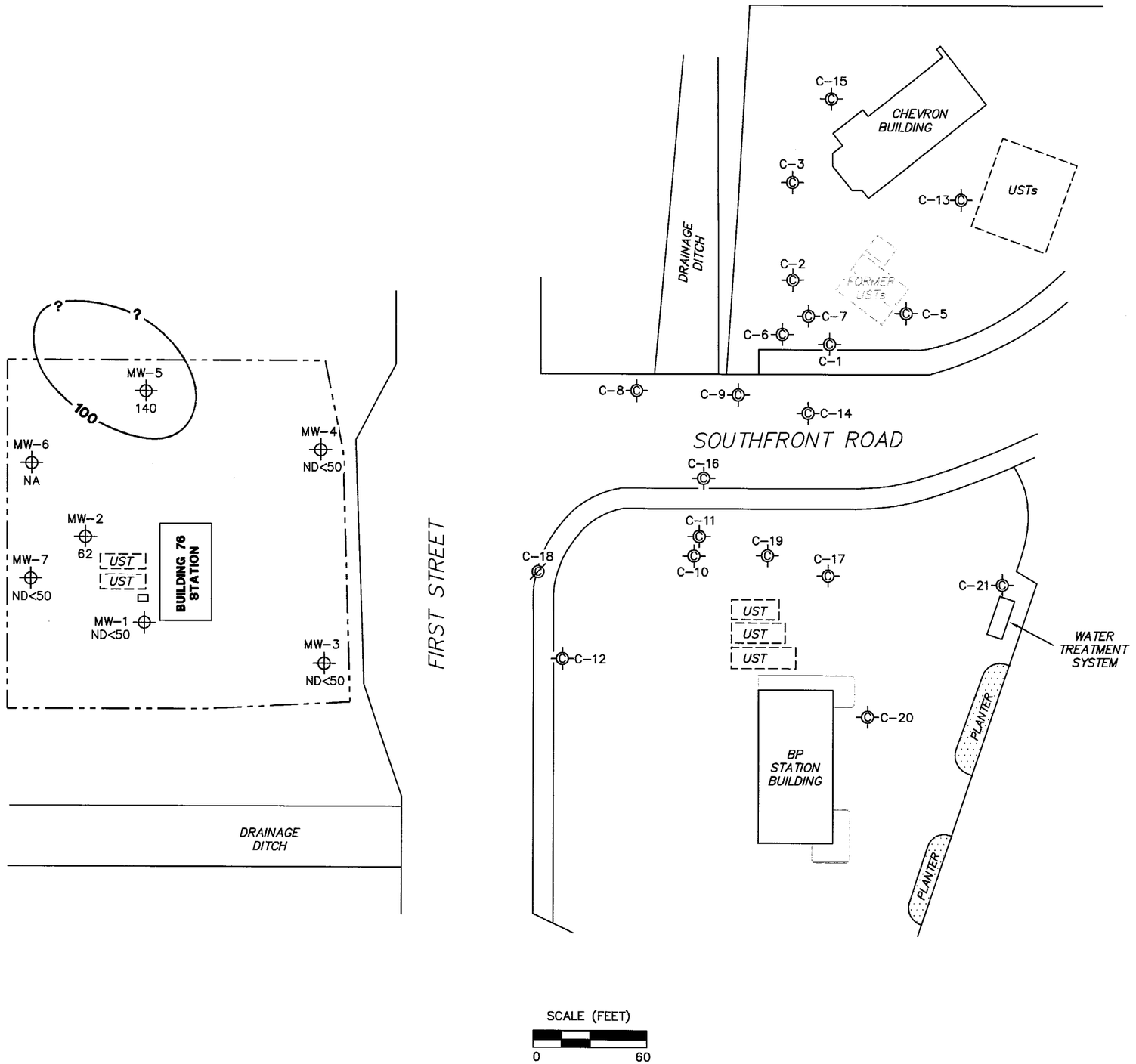
GROUNDWATER ELEVATION CONTOUR MAP
July 19, 2006

76 Station 6034
4700 First Street
Livermore, California

TRC

FIGURE 2

PS=1:1 6034-003 L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6034+\6034QMS.DWG Aug 14, 2006 - 4:59pm lwinters



LEGEND

MW-7 ⊕ Monitoring Well with Dissolved-Phase TPH-G Concentration (µg/l)

C-21 ⊕ Chevron Monitoring Well

C-18 ⊘ Abandoned Chevron Well

—100— Dissolved-Phase TPH-G Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G = total petroleum hydrocarbons as gasline. µg/l = micrograms per liter. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8015M.

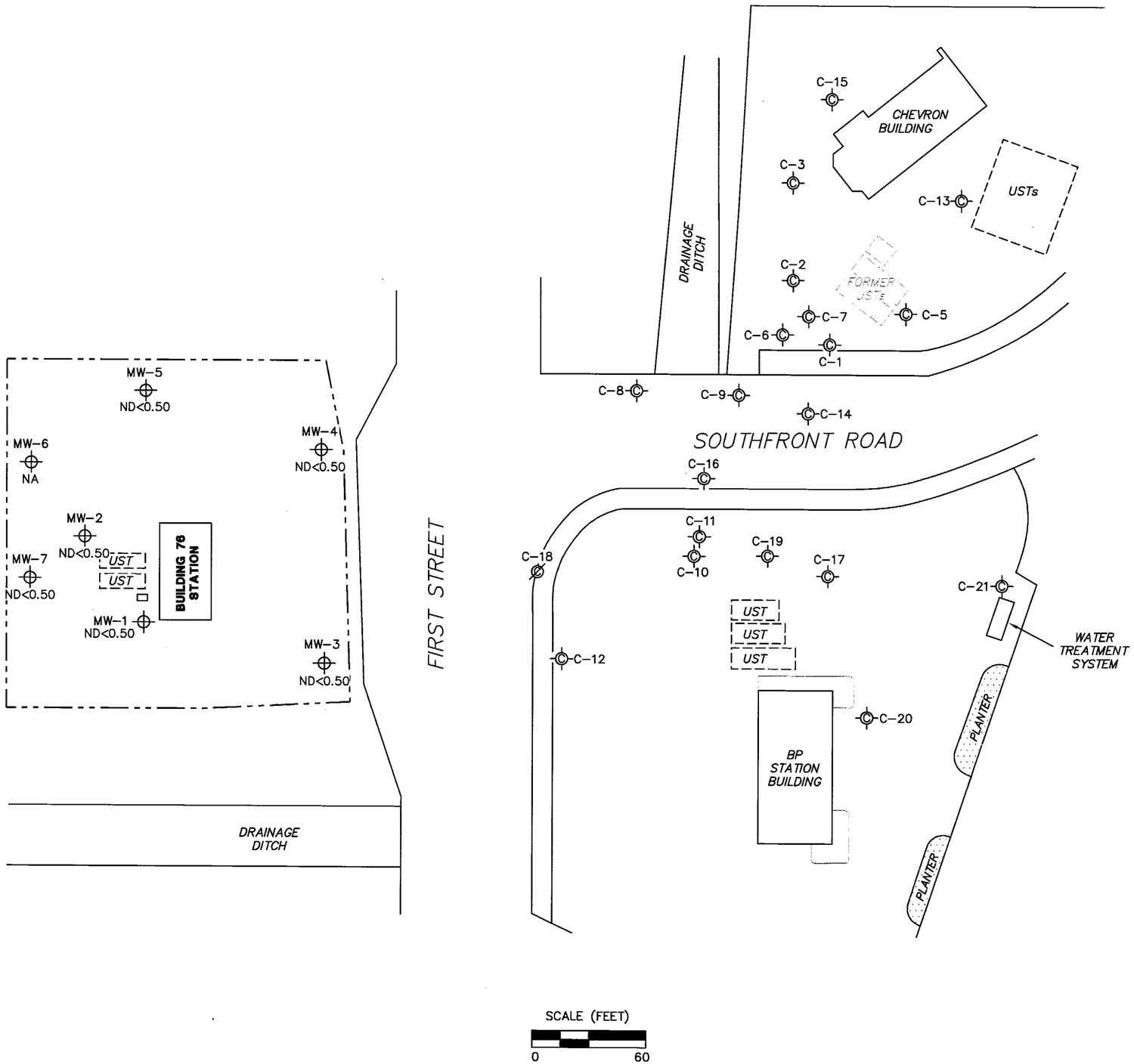
DISSOLVED-PHASE TPH-G CONCENTRATION MAP
July 19, 2006

76 Station 6034
4700 First Street
Livermore, California

TRC

FIGURE 3

PS=1:1 6034-003 L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6034+\6034QMS.DWG Aug 11, 2006 - 1:06pm lwinters



N

LEGEND

MW-7 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

C-21 ⊕ Chevron Monitoring Well

C-18 ⊘ Abandoned Chevron Well

NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
NA = not analyzed, measured, or collected.
UST = underground storage tank.

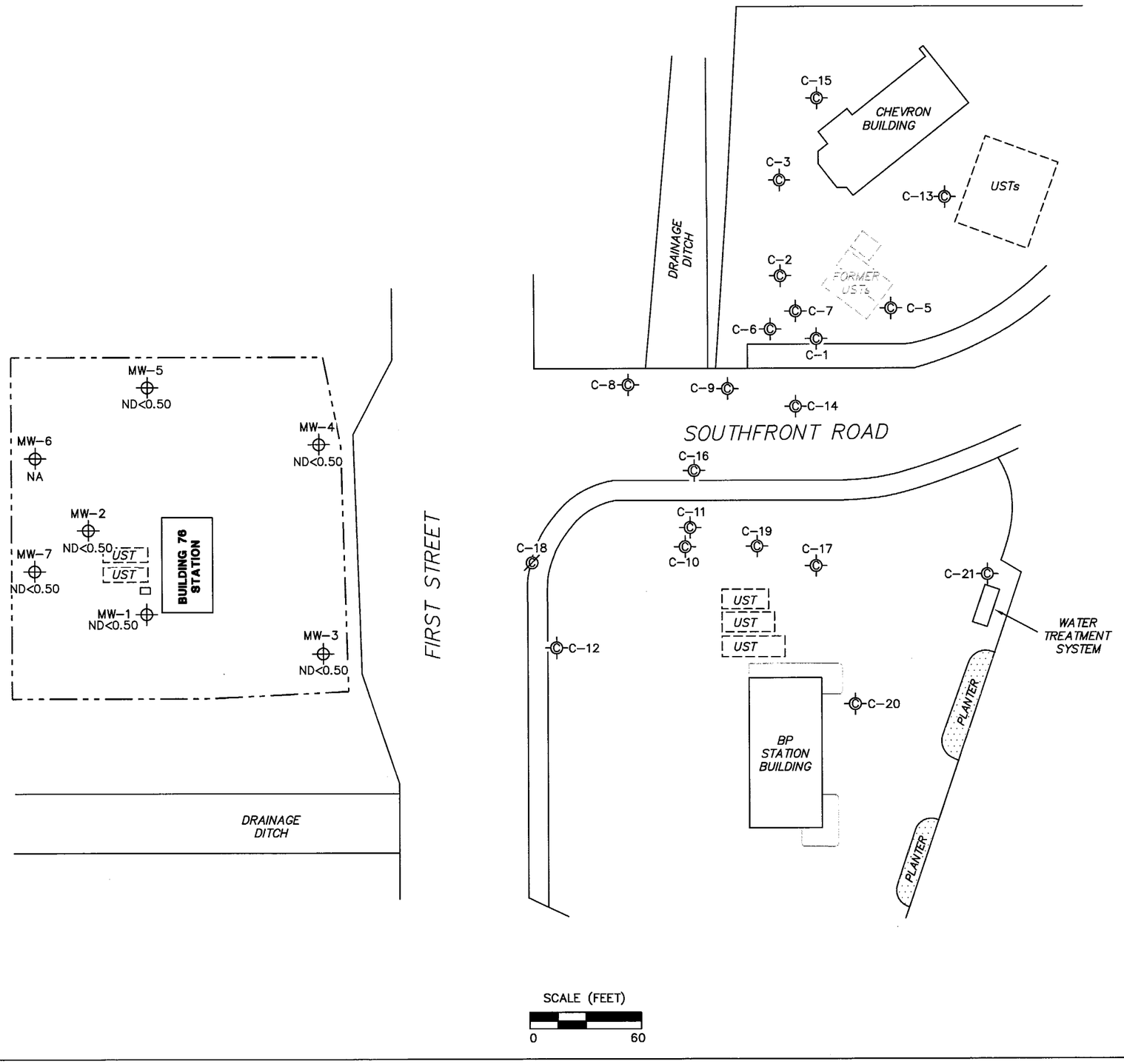
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
July 19, 2006

76 Station 6034
4700 First Street
Livermore, California

TRC

FIGURE 4

PS=1:1 6034-003 L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6034+\6034QMS.DWG Aug 11, 2006 - 1:06pm lwinters



N

LEGEND

MW-7 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

C-21 ⊕ Chevron Monitoring Well

C-18 ⊘ Abandoned Chevron Well

NOTES:

MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
July 19, 2006

76 Station 6034
4700 First Street
Livermore, California

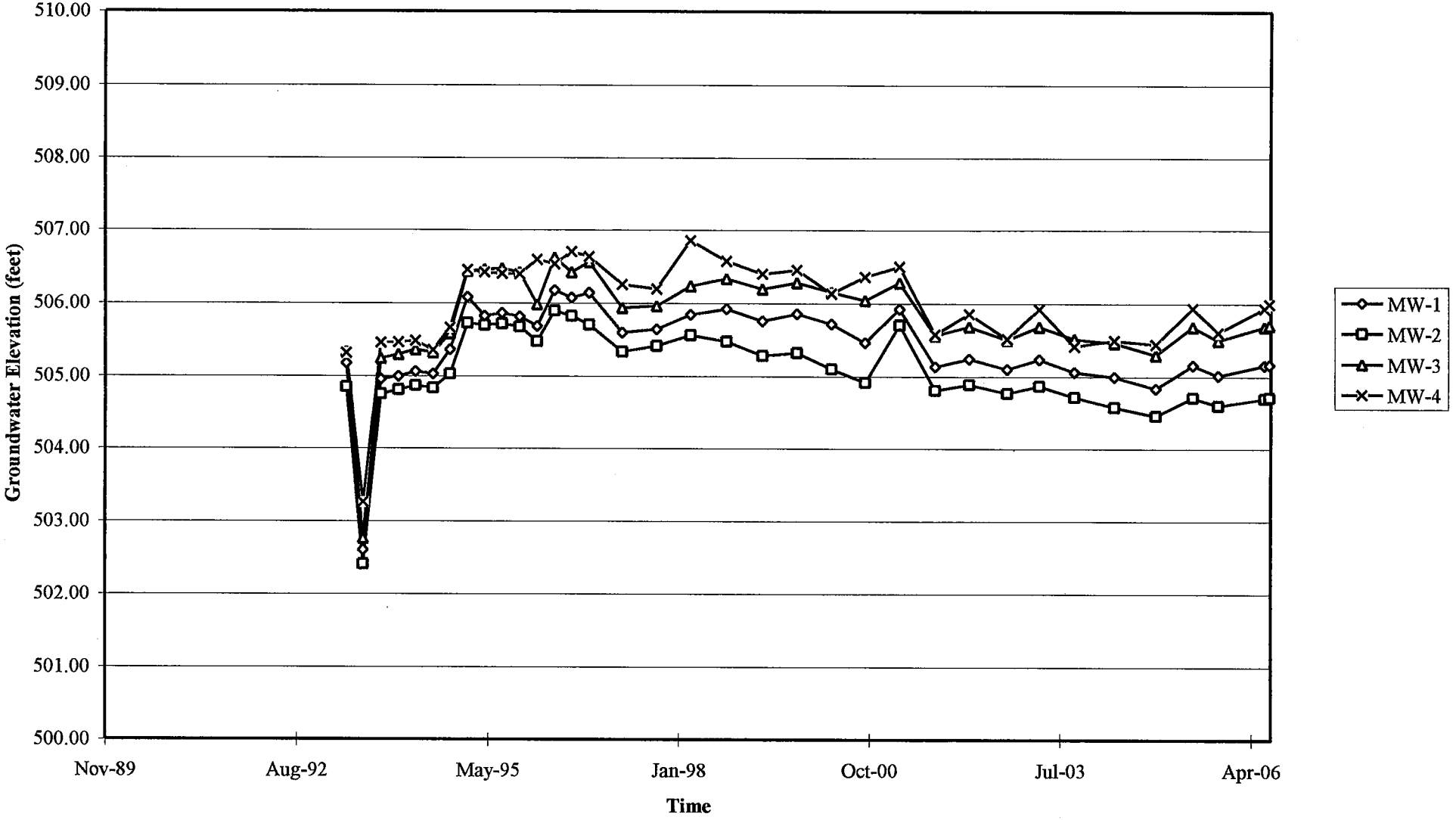
TRC

FIGURE 5

PS=1:1 6034-003 L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6034+\6034QMS.DWG Aug 11, 2006 - 1:06pm lwinters

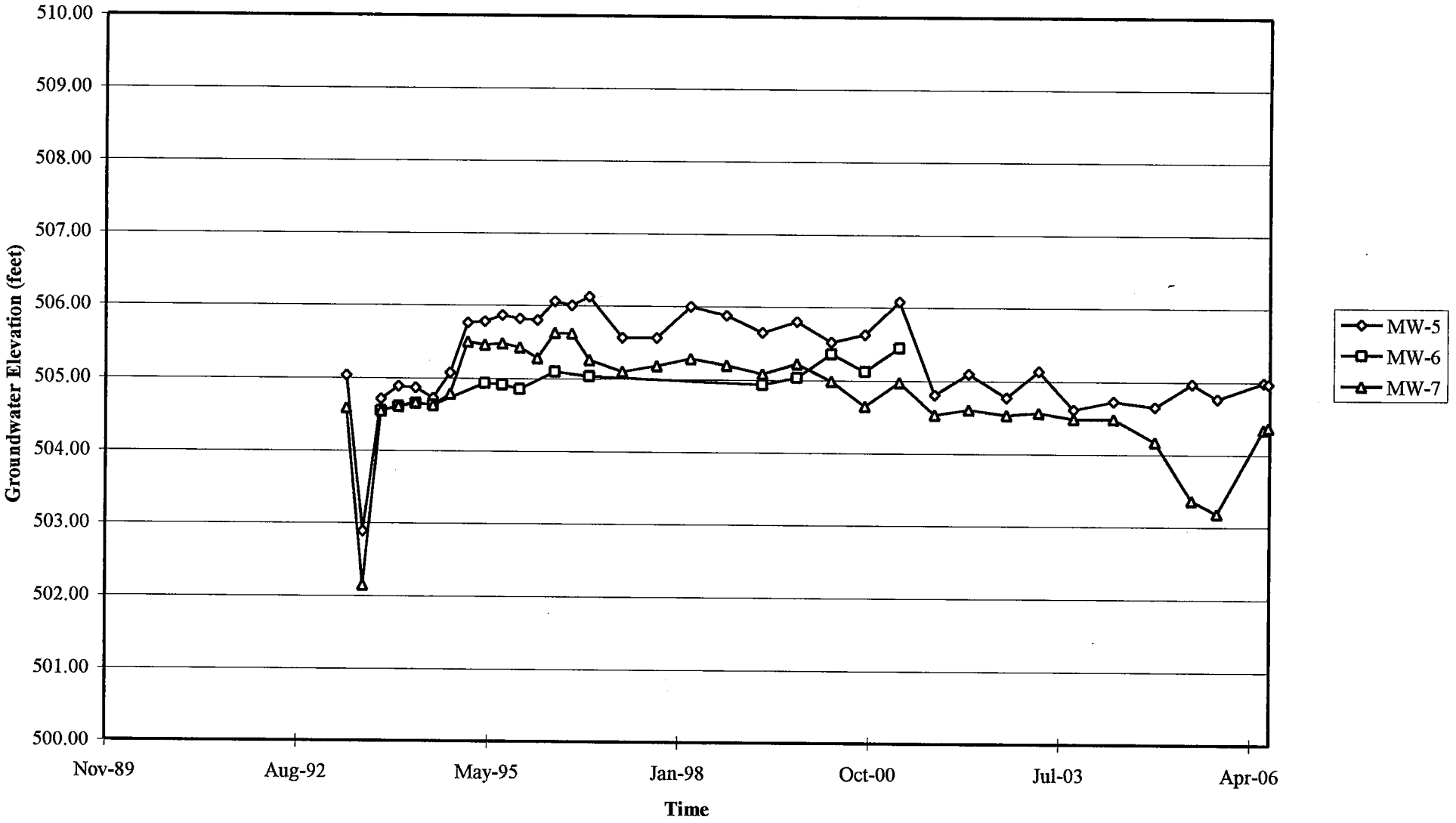
GRAPHS

Groundwater Elevations vs. Time
76 Station 6034



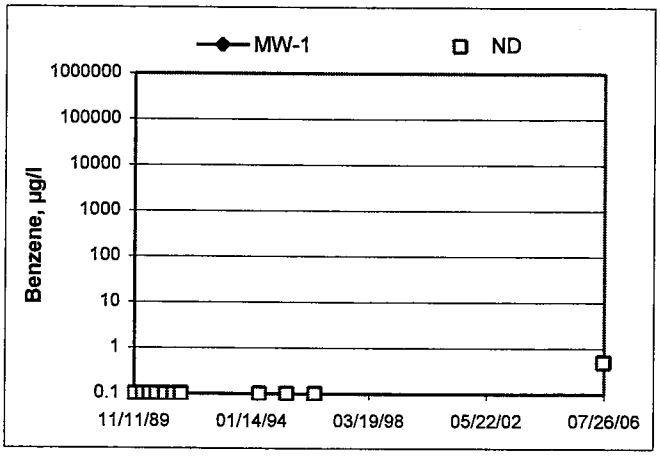
Elevations may have been corrected for apparent changes due to resurvey

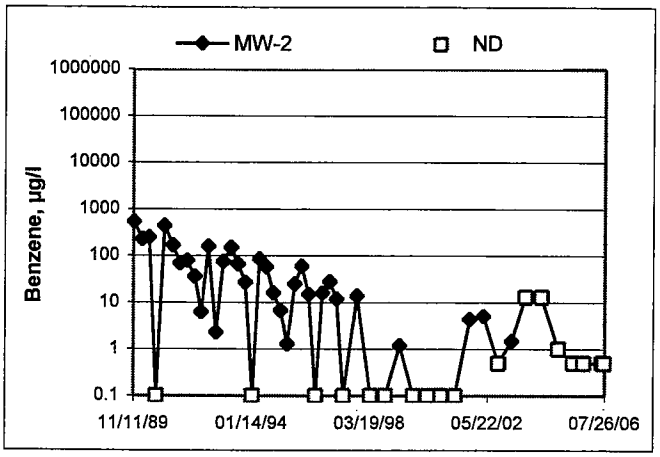
Groundwater Elevations vs. Time
76 Station 6034

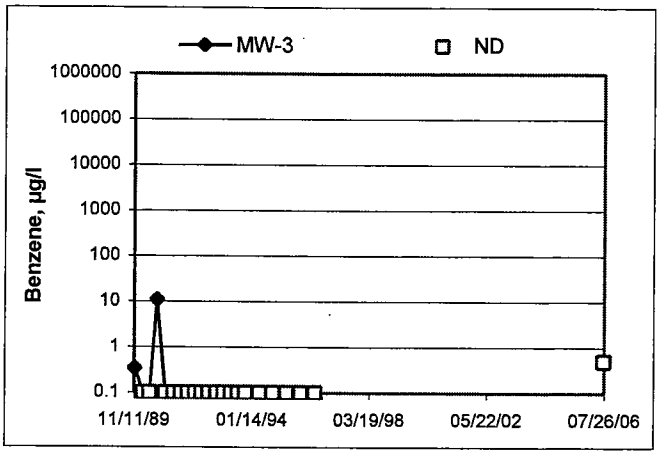


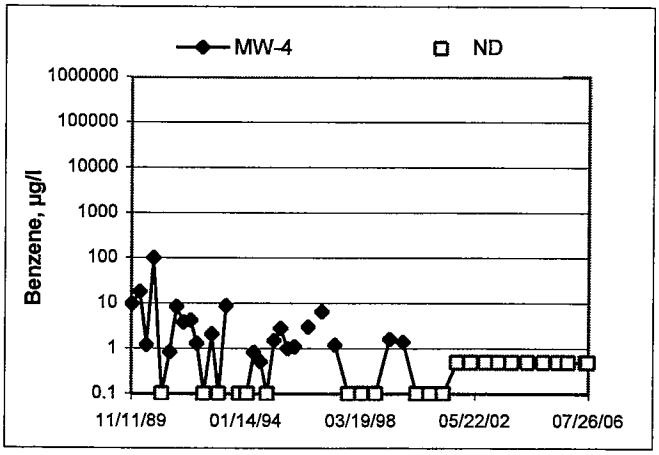
Elevations may have been corrected for apparent changes due to resurvey

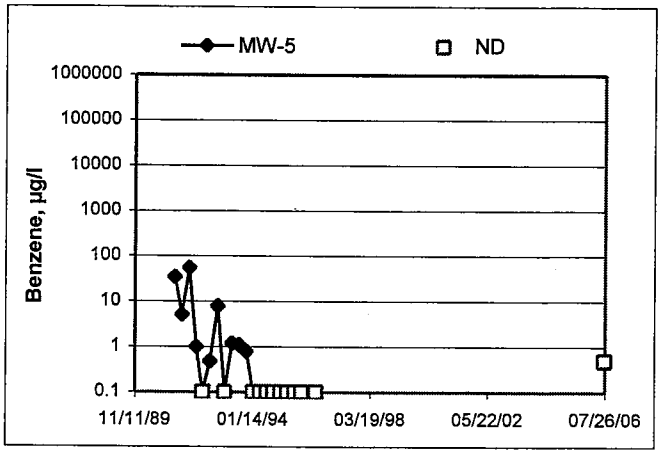
Benzene Concentrations vs Time
76 Station 6034

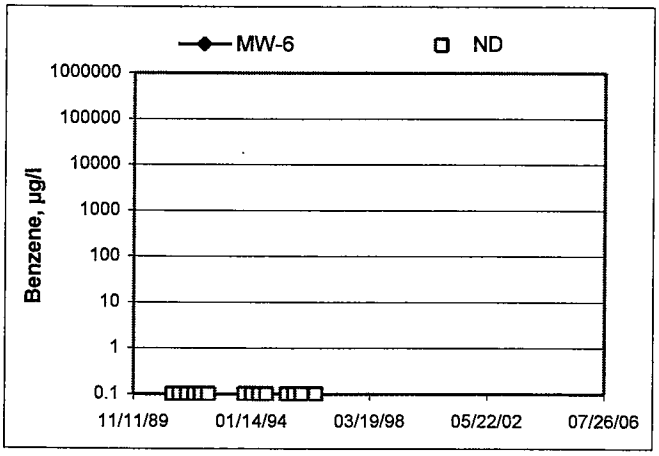


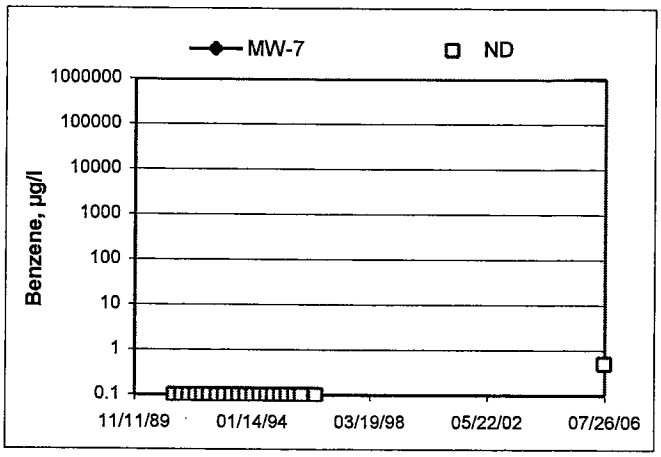












GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: Daniel Job #/Task #: 410600001/FA20 Date: 7/19/06

Site # 6034 Project Manager A. Collins Page 2 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW 4	1246	✓	25.41	13.62	—	—	1342	2"
MW 3	1252	✓	25.33	13.96	—	—	1402	2"
MW 5	1258	✓	23.54	15.31	—	—	1427	2"
MW 2	1303	✓	25.58	15.12	—	—	1452	2"
MW 7	1307	✓	23.60	14.46	—	—	1514	2"
MW 1	1312	✓	27.80	15.48	—	—	1538	2"

FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL

GROUNDWATER SAMPLING FIELD NOTES

Technician: Daniel

Site: 6034 Project No.: 4106001 Date: 7/19/06

Well No.: MW1 Purge Method: HB

Depth to Water (feet): 14.46 Depth to Product (feet): Ø

Total Depth (feet): 23.60 LPH & Water Recovered (gallons): Ø

Water Column (feet): 9.14 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.28 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1502			1	1102	21.7	3.53		
			2	1122	20.9	3.60		
	1509		3	1205	20.6	3.63		

Static at Time Sampled	Total Gallons Purged	Time Sampled
14.49	3	1514

Comments:

Well No.: MW1 Purge Method: HB

Depth to Water (feet): 15.48 Depth to Product (feet): Ø

Total Depth (feet): 27.80 LPH & Water Recovered (gallons): Ø

Water Column (feet): 12.32 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.94 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1524			2	1242	20.8	3.56		
			4	1234	20.1	3.29		
	1532		6	1185	20.4	3.58		

Static at Time Sampled	Total Gallons Purged	Time Sampled
15.50	6	1538

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Daniel

Site: 6034 Project No.: 41060001 Date: 7/19/06

Well No.: MW4

Depth to Water (feet): 13.62

Total Depth (feet): 25.41

Water Column (feet): 11.79

80% Recharge Depth (feet): 15.97

Purge Method: ~~HB~~ ~~Disp~~ DC HB

Depth to Product (feet): Ø

LPH & Water Recovered (gallons): Ø

Casing Diameter (Inches): 2"

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1330			2	883	22.8	3.99		
			4	845	20.7	3.44		
	1338		6	865	20.6	3.04		

Static at Time Sampled	Total Gallons Purged	Time Sampled
13.75	6	1342

Comments:

Well No.: MW3

Depth to Water (feet): 13.96

Total Depth (feet): 25.33

Water Column (feet): 11.37

80% Recharge Depth (feet): 16.23

Purge Method: ~~Disp~~ DC HB

Depth to Product (feet): Ø

LPH & Water Recovered (gallons): Ø

Casing Diameter (Inches): 2"

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1351			2	1063	21.9	3.65		
			4	1098	21.6	3.59		
	1400		6	884	21.9	3.58		

Static at Time Sampled	Total Gallons Purged	Time Sampled
13.96	6	1405

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Daniel

Site: 6034 Project No.: 4W060001 Date: 7/19/06

Well No.: MW5 Purge Method: HB

Depth to Water (feet): 15.31 Depth to Product (feet): Ø

Total Depth (feet): 23.54 LPH & Water Recovered (gallons): Ø

Water Column (feet): 8.23 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.95 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1413			1	4.99	23.3	3.39		
			2	2.87	23.5	3.22		
	1421		3	510	21.7	3.11		

Static at Time Sampled	Total Gallons Purged	Time Sampled
1534	3	1427

Comments:

Well No.: MW2 Purge Method: HB

Depth to Water (feet): 15.12 Depth to Product (feet): Ø

Total Depth (feet): 25.58 LPH & Water Recovered (gallons): Ø

Water Column (feet): 10.46 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 17.21 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1440			2	3.66	23.9	3.35		
			4	571	21.8	3.49		
	1448		6	1248	20.8	3.53		

Static at Time Sampled	Total Gallons Purged	Time Sampled
15.20	6	1452

Comments:

BC Laboratories, Inc

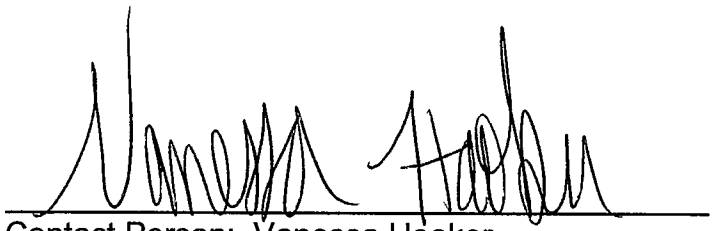
Date of Report: 08/02/2006

Anju Farfan

TRC Alton Geoscience
21 Technology Drive
Irvine, CA 92618-2302
RE: 6034
BC Lab Number: 0607335

Enclosed are the results of analyses for samples received by the laboratory on 07/20/06 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Vanessa Hooker
Client Service Rep

Authorized Signature

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0607335-01	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/19/06 15:38	Global ID: T0600101477
	Sampling Location:	MW-1	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	DC of TRCI			Cooler ID:
0607335-02	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/19/06 14:52	Global ID: T0600101477
	Sampling Location:	MW-2	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	DC of TRCI			Cooler ID:
0607335-03	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/19/06 14:02	Global ID: T0600101477
	Sampling Location:	MW-3	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	DC of TRCI			Cooler ID:
0607335-04	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/19/06 13:42	Global ID: T0600101477
	Sampling Location:	MW-4	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-4	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	DC of TRCI			Cooler ID:
0607335-05	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:
	Project Number:	6034	**Sampling Date:**	07/19/06 14:27	Global ID: T0600101477
	Sampling Location:	MW-5	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-5	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	DC of TRCI			Cooler ID:

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
0607335-06	**COC Number:**	---	**Receive Date:**	07/20/06 21:00	Delivery Work Order:	
	Project Number:	6034	**Sampling Date:**	07/19/06 15:14	Global ID:	T0600101477
	Sampling Location:	MW-7	**Sample Depth:**	---	Matrix:	W
	Sampling Point:	MW-7	**Sample Matrix:**	Water	Samle QC Type (SACode):	CS
	Sampled By:	DC of TRCI			Cooler ID:	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-01 | **Client Sample Name:** 6034, MW-1, MW-1, 7/19/2006 3:38:00PM, DC

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	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	V11
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975	ND	V11
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975		
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:35	DKC	MS-V10	1	BPG0975		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-01 | **Client Sample Name:** 6034, MW-1, MW-1, 7/19/2006 3:38:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/28/06	07/29/06 02:39	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	87.2	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 02:39	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-02 | **Client Sample Name:** 6034, MW-2, MW-2, 7/19/2006 2:52:00PM, DC

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	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
Ethylbenzene	2.1	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
Total Xylenes	4.5	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	V11
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976	ND	V11
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 12:44	DKC	MS-V10	1	BPG0976		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-02 | **Client Sample Name:** 6034, MW-2, MW-2, 7/19/2006 2:52:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	62	ug/L	50		Luft	07/28/06	07/29/06 01:47	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	87.4	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 01:47	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-03 | **Client Sample Name:** 6034, MW-3, MW-3, 7/19/2006 2:02:00PM, DC

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	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	V11
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976	ND	V11
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976		
Toluene-d8 (Surrogate)	97.8	%	88 - 110 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976		
4-Bromofluorobenzene (Surrogate)	99.2	%	86 - 115 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 14:00	DKC	MS-V10	1	BPG0976		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-03 | **Client Sample Name:** 6034, MW-3, MW-3, 7/19/2006 2:02:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/28/06	07/29/06 03:05	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	84.0	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 03:05	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-04 | **Client Sample Name:** 6034, MW-4, MW-4, 7/19/2006 1:42:00PM, DC

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	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	V11
Diisopropyl ether	2.2	ug/L	0.50		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976	ND	V11
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976		
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	07/21/06	07/22/06 13:09	DKC	MS-V10	1	BPG0976		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-04 | **Client Sample Name:** 6034, MW-4, MW-4, 7/19/2006 1:42:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/28/06	07/29/06 02:13	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	85.6	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 02:13	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-05 | **Client Sample Name:** 6034, MW-5, MW-5, 7/19/2006 2:27:00PM, DC

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	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376		
Toluene-d8 (Surrogate)	97.4	%	88 - 110	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:19	DKC	MS-V10	1	BPG1376		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-05 | **Client Sample Name:** 6034, MW-5, MW-5, 7/19/2006 2:27:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	140	ug/L	50		Luft	07/28/06	07/29/06 03:31	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	90.5	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 03:31	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0607335-06 | **Client Sample Name:** 6034, MW-7, MW-7, 7/19/2006 3:14:00PM, DC

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	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376		
Toluene-d8 (Surrogate)	97.4	%	88 - 110	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376		
4-Bromofluorobenzene (Surrogate)	98.7	%	86 - 115	(LCL - UCL)	EPA-8260	07/25/06	07/26/06 03:44	DKC	MS-V10	1	BPG1376		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0607335-06 | **Client Sample Name:** 6034, MW-7, MW-7, 7/19/2006 3:14:00PM, DC

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/28/06	07/29/06 03:56	CAW	GC-V4	1	BPG1407	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	83.2	%	70 - 130	(LCL - UCL)	Luft	07/28/06	07/29/06 03:56	CAW	GC-V4	1	BPG1407		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPG0975	Matrix Spike	0607256-01	ND	25.370	25.000	ug/L		101		70 - 130	
		Matrix Spike Duplicate	0607256-01	ND	24.790	25.000	ug/L	1.80	99.2	20	70 - 130	
Toluene	BPG0975	Matrix Spike	0607256-01	ND	23.770	25.000	ug/L		95.1		70 - 130	
		Matrix Spike Duplicate	0607256-01	ND	23.150	25.000	ug/L	2.66	92.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG0975	Matrix Spike	0607256-01	ND	10.320	10.000	ug/L		103		76 - 114	
		Matrix Spike Duplicate	0607256-01	ND	10.590	10.000	ug/L		106		76 - 114	
Toluene-d8 (Surrogate)	BPG0975	Matrix Spike	0607256-01	ND	9.8000	10.000	ug/L		98.0		88 - 110	
		Matrix Spike Duplicate	0607256-01	ND	9.7900	10.000	ug/L		97.9		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPG0975	Matrix Spike	0607256-01	ND	10.060	10.000	ug/L		101		86 - 115	
		Matrix Spike Duplicate	0607256-01	ND	10.190	10.000	ug/L		102		86 - 115	
Benzene	BPG0976	Matrix Spike	0607256-02	ND	27.830	25.000	ug/L		111		70 - 130	
		Matrix Spike Duplicate	0607256-02	ND	26.080	25.000	ug/L	6.51	104	20	70 - 130	
Toluene	BPG0976	Matrix Spike	0607256-02	ND	25.980	25.000	ug/L		104		70 - 130	
		Matrix Spike Duplicate	0607256-02	ND	23.770	25.000	ug/L	8.94	95.1	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG0976	Matrix Spike	0607256-02	ND	10.780	10.000	ug/L		108		76 - 114	
		Matrix Spike Duplicate	0607256-02	ND	10.650	10.000	ug/L		106		76 - 114	
Toluene-d8 (Surrogate)	BPG0976	Matrix Spike	0607256-02	ND	9.9800	10.000	ug/L		99.8		88 - 110	
		Matrix Spike Duplicate	0607256-02	ND	9.9400	10.000	ug/L		99.4		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPG0976	Matrix Spike	0607256-02	ND	9.8900	10.000	ug/L		98.9		86 - 115	
		Matrix Spike Duplicate	0607256-02	ND	10.050	10.000	ug/L		100		86 - 115	
Benzene	BPG1376	Matrix Spike	0606841-39	ND	22.330	25.000	ug/L		89.3		70 - 130	
		Matrix Spike Duplicate	0606841-39	ND	24.110	25.000	ug/L	7.65	96.4	20	70 - 130	
Toluene	BPG1376	Matrix Spike	0606841-39	ND	20.240	25.000	ug/L		81.0		70 - 130	
		Matrix Spike Duplicate	0606841-39	ND	21.660	25.000	ug/L	6.68	86.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	11.040	10.000	ug/L		110		76 - 114	
		Matrix Spike Duplicate	0606841-39	ND	11.420	10.000	ug/L		114		76 - 114	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Toluene-d8 (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	10.070	10.000	ug/L		101		88 - 110	
		Matrix Spike Duplicate	0606841-39	ND	10.060	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPG1376	Matrix Spike	0606841-39	ND	10.530	10.000	ug/L		105		86 - 115	
		Matrix Spike Duplicate	0606841-39	ND	10.140	10.000	ug/L		101		86 - 115	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Gasoline Range Organics (C4 - C12)	BPG1407	Matrix Spike	0606841-33	ND	924.80	1000.0	ug/L		92.5		70 - 130	
		Matrix Spike Duplicate	0606841-33	ND	901.30	1000.0	ug/L	2.63	90.1	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BPG1407	Matrix Spike	0606841-33	ND	37.390	40.000	ug/L		93.5		70 - 130	
		Matrix Spike Duplicate	0606841-33	ND	39.020	40.000	ug/L		97.6		70 - 130	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPG0975	BPG0975-BS1	LCS	25.720	25.000	0.50	ug/L	103		70 - 130		
Toluene	BPG0975	BPG0975-BS1	LCS	24.280	25.000	0.50	ug/L	97.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG0975	BPG0975-BS1	LCS	10.140	10.000		ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BPG0975	BPG0975-BS1	LCS	9.7400	10.000		ug/L	97.4		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPG0975	BPG0975-BS1	LCS	10.180	10.000		ug/L	102		86 - 115		
Benzene	BPG0976	BPG0976-BS1	LCS	26.480	25.000	0.50	ug/L	106		70 - 130		
Toluene	BPG0976	BPG0976-BS1	LCS	24.900	25.000	0.50	ug/L	99.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG0976	BPG0976-BS1	LCS	10.550	10.000		ug/L	106		76 - 114		
Toluene-d8 (Surrogate)	BPG0976	BPG0976-BS1	LCS	10.000	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPG0976	BPG0976-BS1	LCS	10.020	10.000		ug/L	100		86 - 115		
Benzene	BPG1376	BPG1376-BS1	LCS	22.010	25.000	0.50	ug/L	88.0		70 - 130		
Toluene	BPG1376	BPG1376-BS1	LCS	19.130	25.000	0.50	ug/L	76.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.950	10.000		ug/L	110		76 - 114		
Toluene-d8 (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.040	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPG1376	BPG1376-BS1	LCS	10.350	10.000		ug/L	104		86 - 115		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Gasoline Range Organics (C4 - C12)	BPG1407	BPG1407-BS1	LCS	911.44	1000.0	50	ug/L	91.1		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BPG1407	BPG1407-BS1	LCS	39.030	40.000		ug/L	97.6		70 - 130		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.14	
Ethylbenzene	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.35	
t-Amyl Methyl ether	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.49	
t-Butyl alcohol	BPG0975	BPG0975-BLK1	ND	ug/L	10	9.3	
Diisopropyl ether	BPG0975	BPG0975-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BPG0975	BPG0975-BLK1	ND	ug/L	250	110	
1,2-Dichloroethane-d4 (Surrogate)	BPG0975	BPG0975-BLK1	110	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG0975	BPG0975-BLK1	97.6	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG0975	BPG0975-BLK1	105	%	86 - 115 (LCL - UCL)		
Benzene	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.14	
Ethylbenzene	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.35	
t-Amyl Methyl ether	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.49	
t-Butyl alcohol	BPG0976	BPG0976-BLK1	ND	ug/L	10	9.3	
Diisopropyl ether	BPG0976	BPG0976-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BPG0976	BPG0976-BLK1	ND	ug/L	250	110	
1,2-Dichloroethane-d4 (Surrogate)	BPG0976	BPG0976-BLK1	113	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG0976	BPG0976-BLK1	96.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG0976	BPG0976-BLK1	104	%	86 - 115 (LCL - UCL)		
Benzene	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.14	
Ethylbenzene	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.094	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/14/06 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Methyl t-butyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.35	
t-Amyl Methyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.49	
t-Butyl alcohol	BPG1376	BPG1376-BLK1	ND	ug/L	10	9.3	
Diisopropyl ether	BPG1376	BPG1376-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BPG1376	BPG1376-BLK1	ND	ug/L	250	110	
1,2-Dichloroethane-d4 (Surrogate)	BPG1376	BPG1376-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPG1376	BPG1376-BLK1	97.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPG1376	BPG1376-BLK1	103	%	86 - 115 (LCL - UCL)		

TRC Alton Geoscience	Project: 6034	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 08/02/06 09:30

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Gasoline Range Organics (C4 - C12)	BPG1407	BPG1407-BLK1	ND	ug/L	50	6.5	
a,a,a-Trifluorotoluene (FID Surrogate)	BPG1407	BPG1407-BLK1	87.6	%	70 - 130 (LCL - UCL)		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6034
Project Number: [none]
Project Manager: Anju Farfan

Reported: 08/02/06 09:30

Notes and Definitions

V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
J	Estimated value
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 10 01/21/04 Page __ Of __

Submission #: 06-07335 Project Code: TB Batch #

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Ice Chest ID BIW Temperature: 5.6 °C Thermometer ID: #48

Emissivity 0.98 Container VOAs

Date/Time 7/20/06 Analyst Init OTO

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS			/							
PT TOTAL SULFIDE			/							
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A·G	A·G	AG	A G	A·G	A·G				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080				/						
QT EPA 515.1/8150				/						
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: OTO Date/Time: 7/21/06 0100

CHK BY MM | DISTRIBUTION JK | SUB-OUT

BC LABORATORIES, INC.

4100 Atlas Court ▯ Bakersfield, CA 93308
(661) 327-4911 ▯ FAX (661) 327-1918

CHAIN OF CUSTODY

06-07335

Analysis Requested

Circle one: Phillips 66 / Unocal	**Consultant Firm: TRC**
Address: 4700 First St.	**21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan**
City: Livermore	**4-digit site#: 6034**
	Work Order#
State: CA **Zip:**	**Project #: 41060001/FA20**
COP Manager: Shelby Lathrop	**Sampler Name:**

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/DIPE/TBA/TAME BY 8260B	ETHANOL by 8260B Anf. 8-10-06	TPH-g by GC/MS	EDB/EDC by 8260B			Turnaround Time Requested
	-1	MW-1	7/19/06 1538	GW		X			X	X					STD
	-2	MW-2	" 1452	GW		X			X	X					STD
	-3	MW-3	" 1402	GW		X			X	X					STD
	-4	MW-4	" 1342	GW		X			X	X					STD
	-5	MW-5	" 1427	GW		X			X	X					STD
	-6	MW-7	" 1514	GW		X			X	X					STD
				GW		x			X	X					STD

Comments: Please send EDF deliverables to Daniel Davis ddavis@deltaenv.com Ben Wright bwright@deltaenv.com

Global ID: T0600101477

Relinquished by: D. Christopher	**Received by:** Refrigerator	**Date & Time:** 7/19/06 1800
Relinquished by (Signature):	**Received by:** Ross Dickey	**Date & Time:** 7/20/06 1515
Relinquished by (Signature): Ross Dickey 7/20/06	**Received by:** Teri Olaberi	**Date & Time:** 7-20-06 1825
	Teri Olaberi	7/20/06 2100

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.