SPRINGTOWN GAS

909 BLUEBELL DRIVE
LIVERMORE, CA 94551

July 25, 2007

Mr. Jerry Wickham
Hazardous Materials Specialist
ACHCSA-EHS
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

SUBJECT: CONE PENETROMETER DRILLING AT THE PROPERTY
909 Bluebell Drive, Livermore, CA

Dear Mr. Wickham:

Enclosed, please find a copy of the July 23, 2007 subject Proposed Work Plan for Groundwater Investigation prepared by my consultant, Enviro Soil Tech Consultants.

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

Sincerely,

MASOOD AMINI

File No. 10-93-567-ST

CONE PENETROMETER DRILLING
AT THE PROPERTY
LOCATED AT 909 BLUEBELL DRIVE
LIVERMORE, CALIFORNIA
JULY 23, 2007

PREPARED FOR:
MR. MASOOD AMINI FILABADI
SPRINGTOWN GAS
909 BLUEBELL DRIVE
LIVREMORE, CALIFORNIA 94551

BY:
ENVIRO SOIL TECH CONSULTATNS
131 TULLY ROAD
SAN JOSE, CALIFORNIA 95111

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Zone 7 Water Agency Drilling Permit

ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500 Fax: (408) 292-2116

July 23, 2007

File No. 10-93-567-ST

Mr. Masood Amini Filabadi
Springtown Gas
909 Bluebell Drive
Livermore, California 94551

SUBJECT: CONE PENETROMETER DRILLING AT THE PROPERTY
Located at 909 Bluebell Drive, in Livermore, California

Dear Mr. Filabadi:

Enviro Soil Tech Consultants (ESTC) submitted a work plan in May 2007 to the Alameda County Health Care Services Agency on your behalf to continue the investigation of groundwater contamination beneath your property located at 909 Bluebell Drive in Livermore. The first task that was proposed in that plan was to drill two cone penetrometer tests (CPT) borings to collect groundwater samples and examine the subsurface soil types beneath the site. That work was performed on June 13, 2007, and this report presents the results of the investigation.

If you have any questions or require additional information, please feel free to contact our office at 408-297-1500 or via email at info@envirosoiltech.com.

Sincerely yours,

ENVIRO SOIL TECH CONSULTANTS

FRANK HAMEDI-FARD
GENERAL MANAGER

LAWRENCE KOO
C. E. #34928

VICTOR B. CHERVEN, Ph.D.
P.G. #3475

CONE PENETROMETER DRILLING
Springtown Gas
909 Bluebell Drive
Livermore, California

1.0 INTRODUCTION

Enviro Soil Tech Consultants (ESTC) conducted an initial subsurface investigation of gasoline contamination at 909 Bluebell Drive in Livermore in February 2007. The site is located at the intersection of Springtown Boulevard and Bluebell Drive (Figure 1). Nine borings were drilled, and soil and groundwater samples were collected for laboratory analysis. Gasoline constituents, primarily methyl tertiary butyl ether (MTBE) and tertiary butanol (TBA), were detected in both media. The results were presented in a *Preliminary Investigation and Evaluation Report* (PIER) that was submitted to the regulatory agency (Alameda County Health Care Services Agency) in March.

Based on those results, the health care agency requested further investigation to determine the lateral and vertical extent of contamination. To meet this objective, ESTC submitted a work plan to drill and sample two cone penetrometer tests (CPT) borings near the eastern and western boundaries of the site. In subsequent correspondence, ACHCSA modified the plan by moving the proposed borings toward the center of the site, within 15 feet of the previously drilled borings (Figure 2). This precluded the possibility of defining the lateral extent of contamination, because the new borings are not far enough from the source of the release to locate the limit of contamination, and, as shown below, essentially duplicate the data obtained during our February 2007 investigation. The borings were drilled in June, and this report presents the results.

2.0 FIELD PROCEDURES

Field work was conducted on June 13, 2007. Gregg Drilling mobilized a cone penetrometer testing (CPT) drilling rig to the site and drilled two borings at the locations requested by ACHCSA. CPT boring 1 was drilled to a depth of 70 feet, and boring 2 was drilled to 60 feet. Both borings were continuously logged, and a registered California geologist examined them and selected sampling intervals. The drilling rig was then moved over slightly and both borings were twinned and the water samples were collected. A stainless-steel bailer was lowered to the selected sample depth to collect the samples, which were then poured into 40-ml glass vials. The vials were sealed and labeled and then transported to Entech Environmental Labs for analysis. The borings were sealed with grout.

3.0 RESULTS

Fine-grained sediment, ranging from stiff black clay to friable, gray, silty clay, was logged from the surface to a depth of 15 or locally 20 feet in the nine Geoprobe borings that were drilled in February 2007. The log of CPT-1, which is located between borings SB-6 and SB-8, indicates that this sediment extends to as much as 30 feet below surface grade in this area (Appendix "C"). In CPT-2, clayey silt and sandy silt are interbedded above 15 feet, but a coarser-grained layer, ranging from gravelly sand in the lower part to silty sand in the upper part, is present between 15 and 20 feet. This unit is not present in CPT-1, but was cored in nearby borings SB-3 and SB-4 in February 2007. A water sample was collected from this bed in CPT-2, and MTBE was detected at a concentration of 89 µg/L (microgram per liter) (Table 1 and Appendix "A"). This result confirms the previous results from SB-3 and SB-4 (79 and 100 µg/L, respectively), but provides relatively little new information on the magnitude or lateral extent of groundwater contamination.

A coarse-grained (gravelly) sand bed was penetrated between 30 and 40 feet in CPT-1. This same bed was also present in CPT-2, from 27 to 35 feet. In both cases, the bed becomes finer grained upward and grades to silt. Water samples were collected from this bed in both borings to provide new data on the vertical extent of groundwater contamination. No gasoline hydrocarbons were detected in either sample, but low concentrations of chloroform and tetrachloroethane were reported in one or both samples (Table 1).

Silt is interbedded with thin lenses of sand or sandy silt from 40 to 63 feet in CPT-1 and to at least 60 feet in CPT-2. No samples were collected from this interval in CPT-1, but one sample was collected between 55 and 59 feet in CPT-2. No hydrocarbons were detected, a further indication that gasoline contamination does not extend below first groundwater.

Another coarse-grained sand bed, similar to the bed from 30-40 feet, was penetrated at 64 feet in CPT-1. The base of this bed was not reached, implying that it is more than 6 feet thick. A water sample was collected from 64 to 68 feet, and no hydrocarbons were present (Table 1).

4.0 CONCLUSIONS

Drilling to a depth of 70 feet reveals that there are two thick, coarse-grained, permeable sand beds between the surface and this depth at the site. The top of one of these is approximately 28 feet below grade, and the top of the other is approximately 65 feet below grade. Both beds appear to be relatively extensive, upward-fining fluvial channel deposits and are likely to be good aquifers. Neither bed is impacted by fuel hydrocarbons in the two borings that have penetrated them, and these results indicate that the sediment and groundwater below 30 feet have not been impacted by the fuel release.

A thinner, finer-grained, less extensive sand bed is present near the southwest corner of the former dispenser island and has been identified in four borings: CPT-2, SB-3, SB-4, and SB-5. This bed is present in the depth range of 15-20 feet and is at least 6 feet thick in SB-4, but is less than 5 feet thick in the others. Water samples collected from this bed were impacted with MTBE in each of these samples.

5.0 RECOMMENDATIONS

Our May 2007 work plan recommended utilizing the results of the CPT borings to identify appropriate locations and sampling depths for four additional Geoprobe borings and four groundwater monitoring wells (Figure 2A). The results of this investigation support that recommendation. The borings and wells should not be drilled to a depth of more than 25 feet to avoid the possibility of cross-contaminating the aquifer bed that is present at 28-40 feet. Soil samples should be collected at 5-foot intervals, and the monitoring wells should be screened from 10 to 20 feet below grade.

In its May 11, 2007 correspondence, ACHCSA modified our proposed location for monitoring well MW-4, moving it north of the former dispenser facility rather than west of it. This location is within 20 feet of borings SB-1 and CPT-2, and therefore is not likely to provide additional data about the lateral extent of groundwater contamination beyond what is already known. In addition, the fact that the impacted sand bed has been identified in SB-3 west of the dispenser island but not in any of the borings to the east of the island suggests that this bed probably pinches out eastward, and a monitoring well located north of SB-5 or east of CPT-2 would not provide much information on the trend of this bed and might not even encounter this permeable aquifer. Moreover, this location is closer to the proposed locations of monitoring wells MW-1 and MW-3, and would not be as useful in constructing a reliable groundwater elevation map and accurately determining the groundwater flow direction and hydraulic gradient as a well that is farther away. Hence, we do not concur with that change and recommend instead that the well be drilled west or northwest of the dispenser island, as originally proposed.

6.0 LIMITATIONS

This report and the schedule work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

1. The observations of field personnel.
2. The results of laboratory analyses performed by a state-certified laboratory.

This report is issued with the understanding that it is the responsibility of the owner or his/her representative to ensure that the information herein is called to the attention of the Local Environmental Agency.

Services performed by ESTC has been in accordance with generally accepted environmental professional practices for the nature and conditions of the work complete in the sample or similar localities at the time the work was performed. This report is not meant to represent a legal opinion. No other warranty, express or impacted is made.

A P P E N D I X "A"

TABLES

TABLE 1
SUMMARY OF GROUNDWATER SAMPLES
ANALYTICAL RESULTS FROM CPT BOREHOLES

Date	Sample No.	Depth feet	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MTBE µg/L	Methanol mg/L	Ethanol µg/L	EPA 8260B µg/L
6/13/07	CPT1-34-38	34-38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<1	ND<200	Chloroform 1.2
	CPT1-64-68	64-68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<1	ND<200	None Detected<0.5
	CPT2-18-22	18-22	ND<50	ND<1	ND<1	ND<1	ND<1	89	ND<1	ND<400	None Detected<1
	CPT2-31-35	31-35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<1	ND<200	Chloroform 0.66 Tetrachloroethene 0.88
	CPT2-55-59	55-59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<1	ND<200	None Detected<0.5

TPHg – Total Petroleum Hydrocarbon as gasoline
MTBE – Methyl Tertiary Butyl Ether
µg/L – Microgram per Liter
ND – Not Detected (below laboratory detection limit)

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylenes
EPA 8260B – Other Fuel Hydrocarbon Oxygenates by 8260B
mg/L – Milligram per Liter

A P P E N D I X "B"

FIGURES

File No. 10-93-567-ST

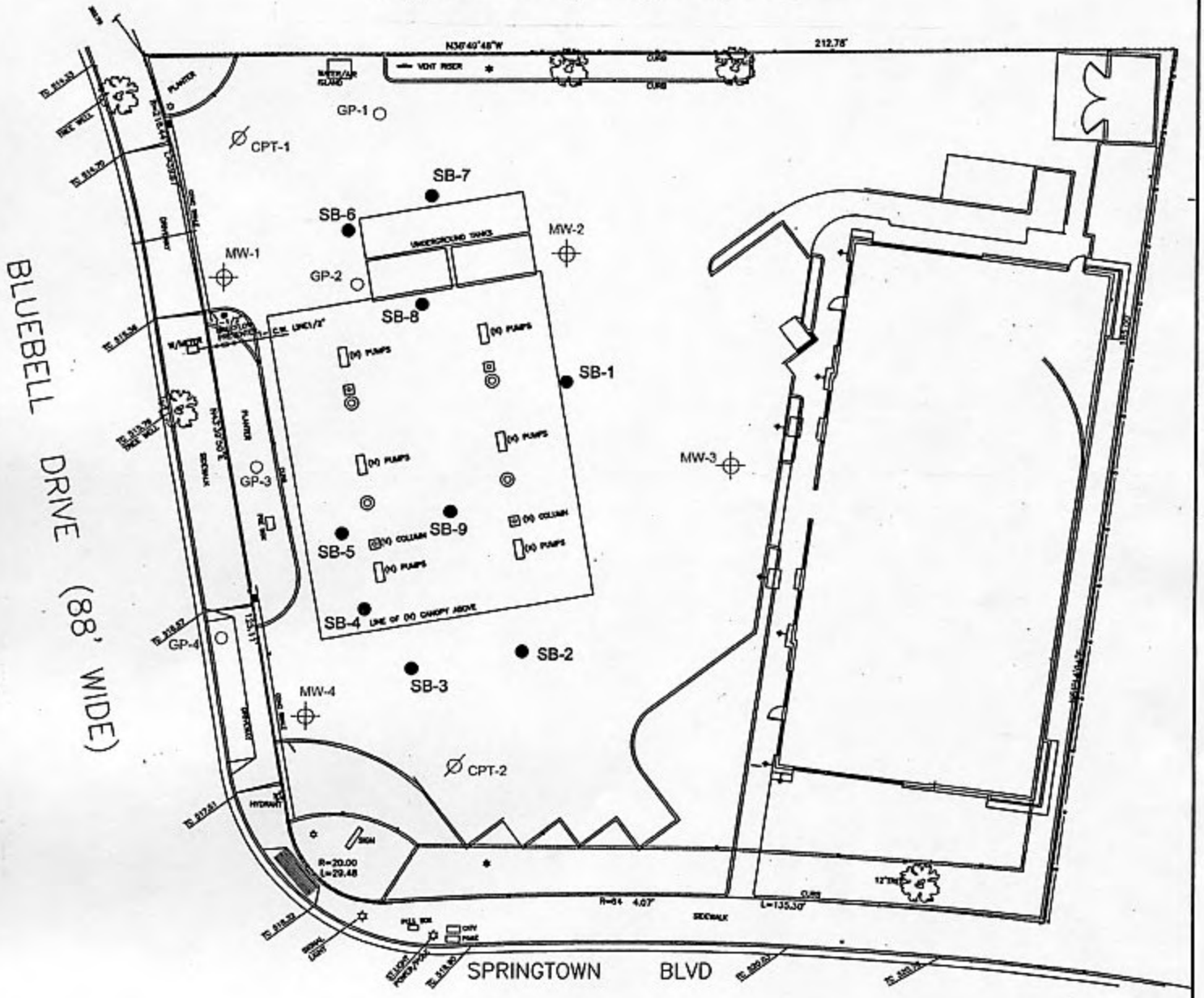
ENVIRO SOIL TECH CONSULTANTS

Figure 1

M1

Enviro Soil Tech Consultants 131 Tully Road San Jose, CA 95112	PROJECT 909 Bluebell Drive Livermore, California PROJECT # 10-93-567-ST DATE: 4/30/2007	Figure 2A **Original Site Map**

Locations of CPT, Monitoring Wells and Geoprobe Borings Originally Proposed



Legend

- ● = Soil Boring
- ○ = Proposed Geoprobe
- ⌀ = Proposed CPT Boring
- ⊕ = Proposed Monitor Well

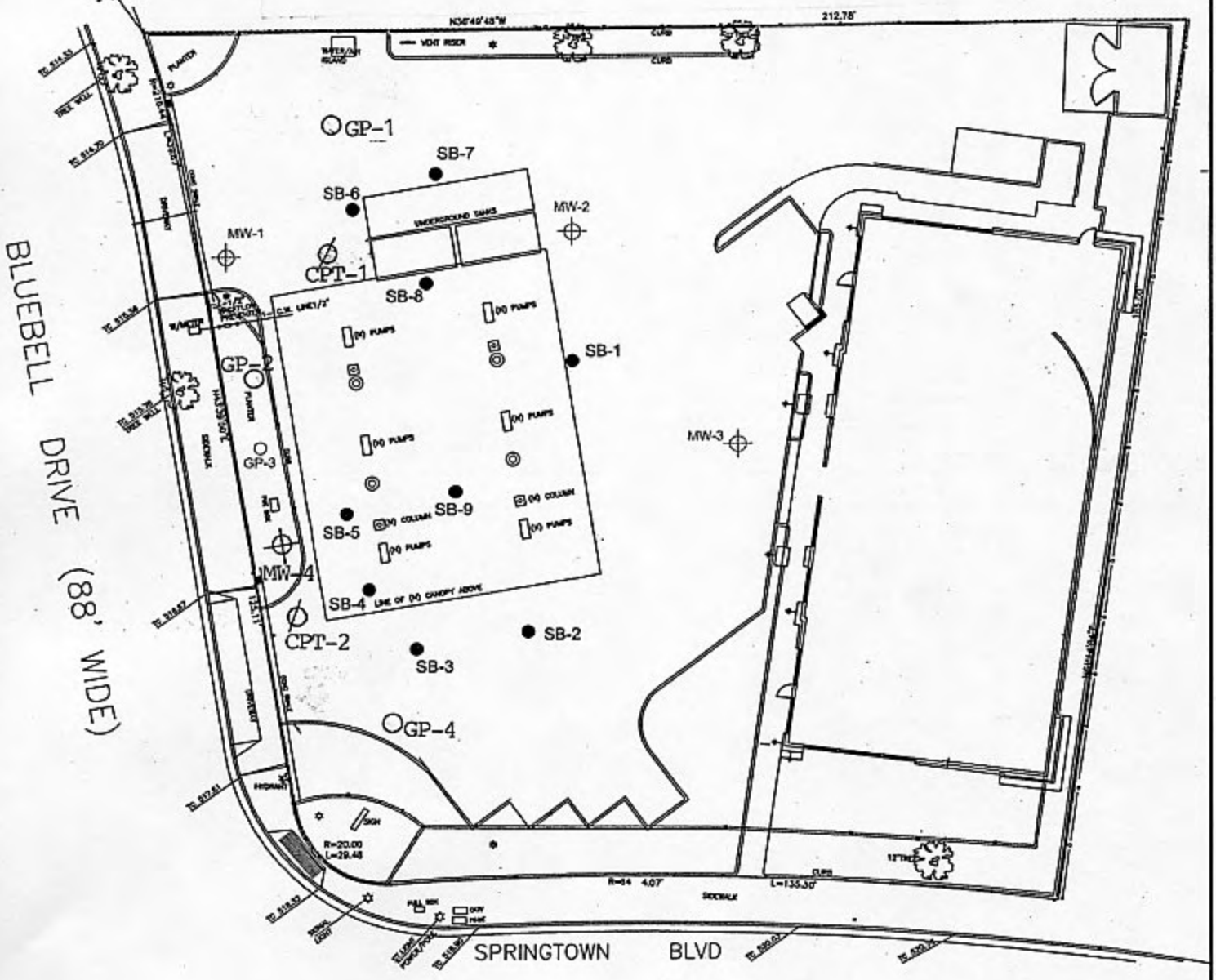
Scale

0 5 10 15 20

M2A

Enviro Soil Tech Consultants 131 Tully Road San Jose, CA 95112	PROJECT 909 Bluebell Drive Livermore, California PROJECT # 10-93-567-ST DATE: 4/30/2007	Figure 2 Site Map

Locations of CPT, Monitoring Wells & Geoprobe Borings Modified by Alameda County



Legend

- ● = Soil Boring
- ○ = Proposed Geoprobe
- ⌀ = Location of Drilled CPT Boring
- ⌖ = Proposed Monitor Well

Scale

0 5 10 15 20

M2

A P P E N D I X "C"

CPT DRILLING REPORT

GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

June 14, 2007

Enviro Soil Tech Consultants
Attn: Frank Hamedi
131 Tully Rd.
San Jose, California 95111

Subject: CPT Site Investigation
Springtown Gas
Livermore, California
GREGG Project Number: 07-183MA

Dear Mr. Hamedi:

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-

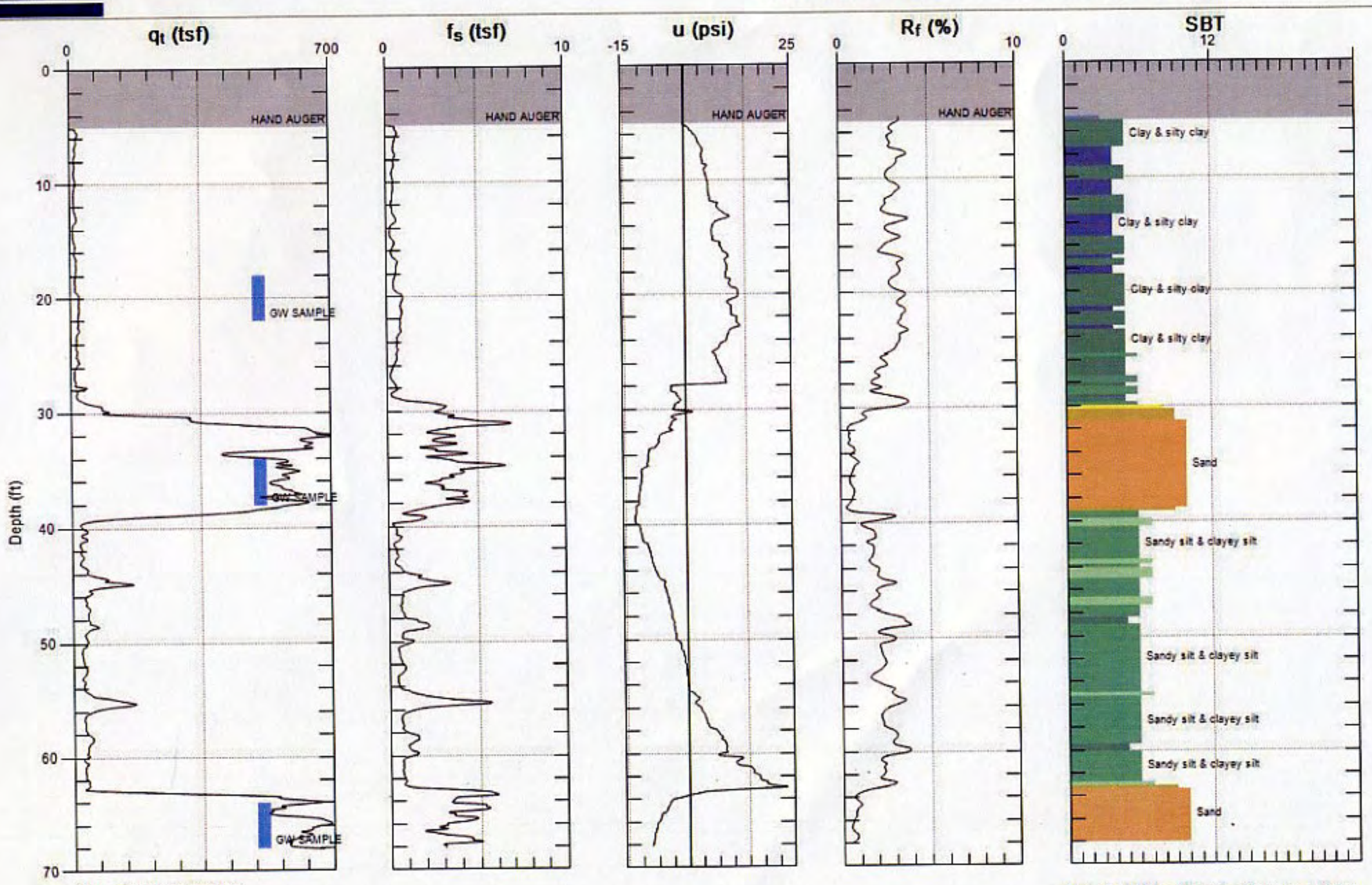
CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	6/13/07	60	22, 38, 68	-	31.7
CPT-02	6/13/07	68	22, 35, 59	-	17.4

950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302
OTHER OFFICES: LOS ANGELES • HOUSTON • SOUTH CAROLINA
www.greggdrilling.com

ENVIRO SOIL TECH

Site: SPRINGTOWN GAS
Sounding: CPT-01

Engineer: F.HAMEDI
Date: 6/13/2007 11:08



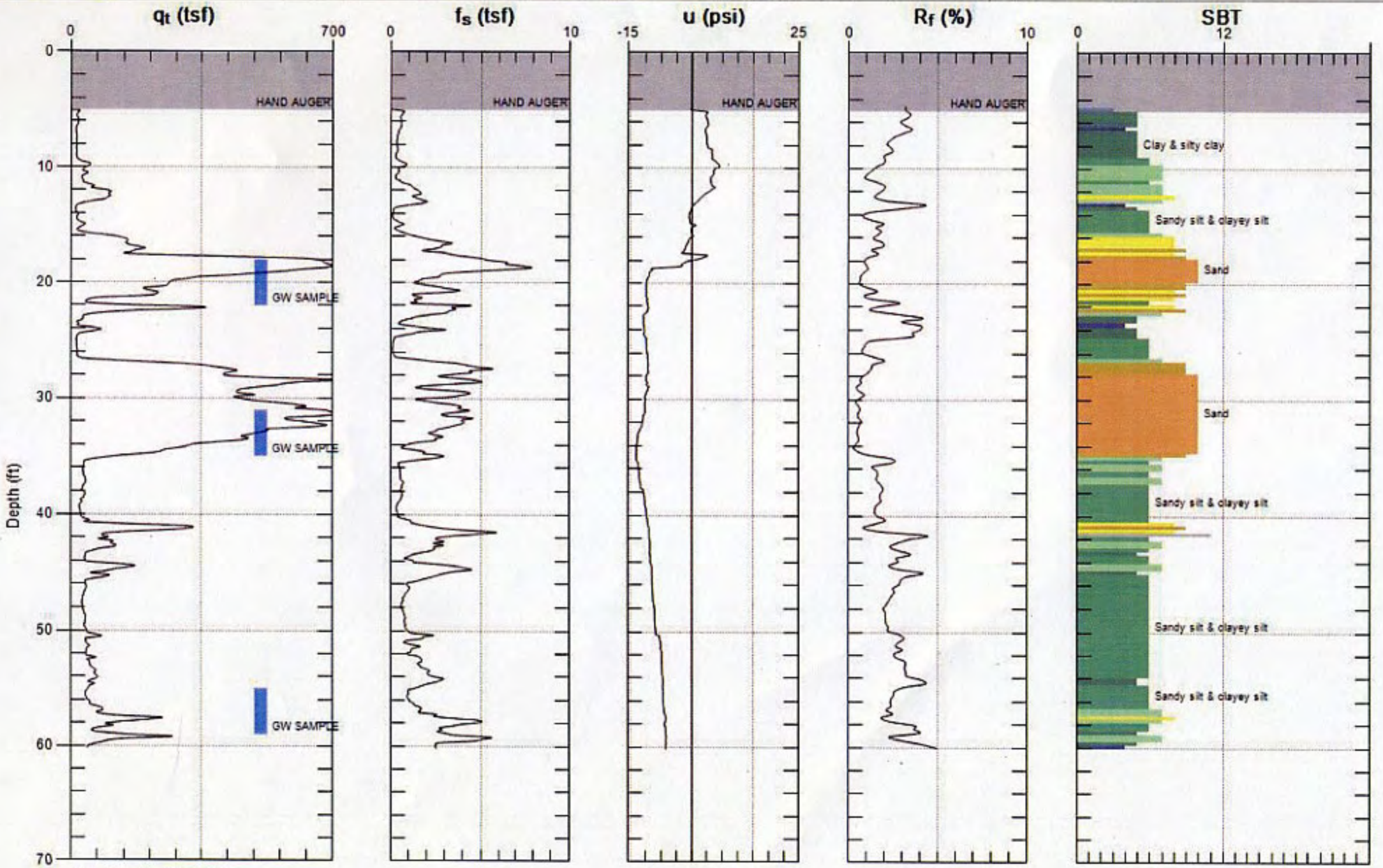
Max. Depth: 68.077 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ENVIRO SOIL TECH

Site: SPRINGTOWN GAS
Sounding: CPT-02

Engineer: F.HAMEDI
Date: 6/13/2007 09:15



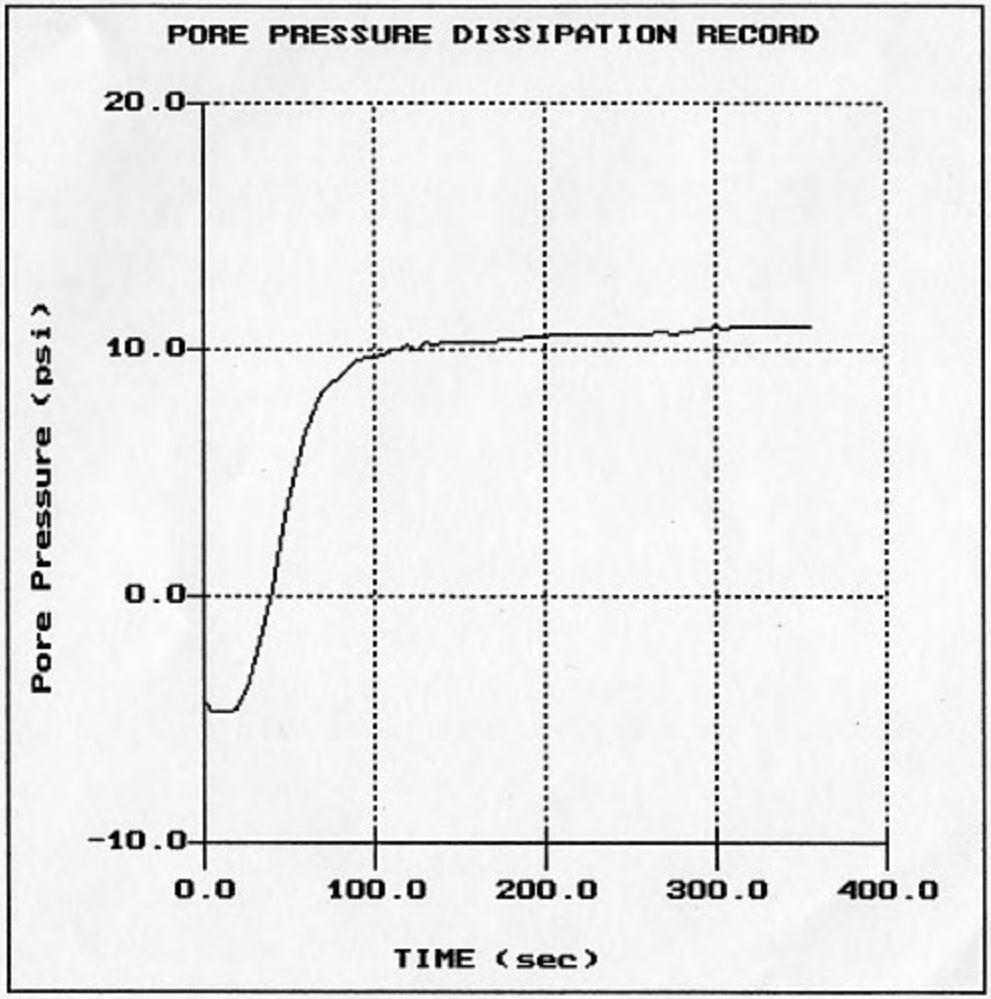
Max. Depth: 60.203 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ENVIRO SOIL TECH

Site:SPRINGTOWN GAS
Location:CPT-01

Oversite:F.HAMEDI
Date:06:13:07 11:08

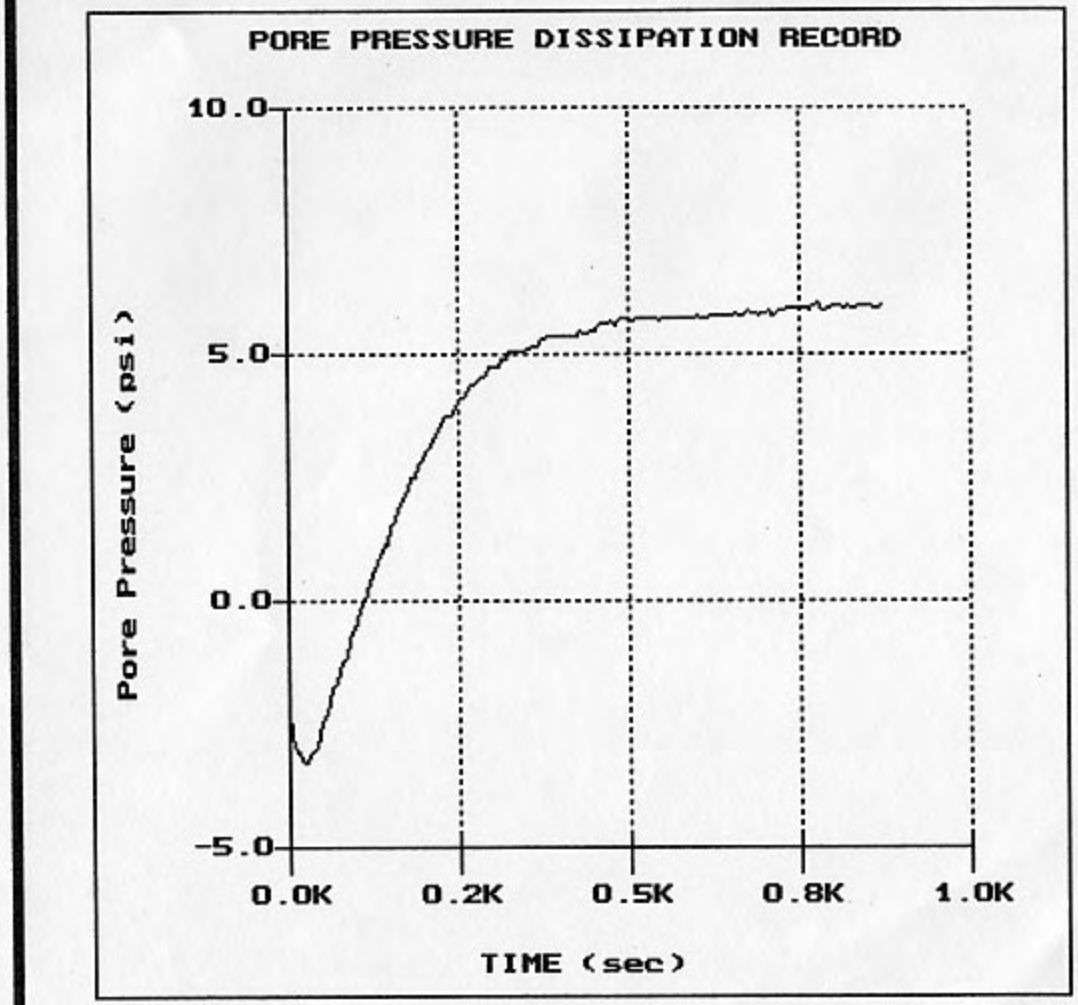


File: 183C01.PPC
Depth (m): 9.65
(ft): 31.66
Duration : 355.0s
U-min: -4.70 15.0s
U-max: 10.95 355.0s

ENVIRO SOIL TECH

Site:SPRINGTOWN GAS
Location:CPT-02

Oversite:F.HAMEDI
Date:06:13:07 09:15



File: 183C02.PPC
Depth (m): 5.30
(ft): 17.39
Duration : 870.0s
U-min: -3.30 25.0s
U-max: 6.04 775.0s

Cone Penetration Testing Procedure (CPT)

Gregg Drilling & Testing, 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.

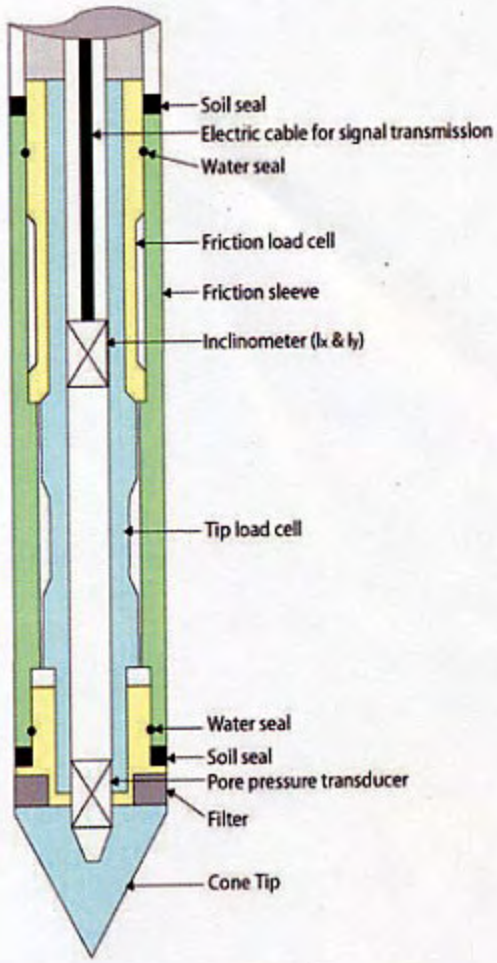


Figure CPT

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.

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 $100 f_s/q_c$ 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)

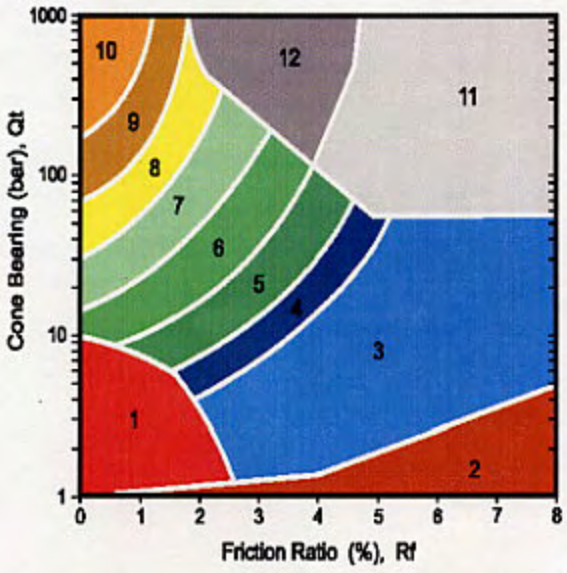
Cohesionless soils (sands)

- 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

Pore Pressure Dissipation Tests (PPDT)

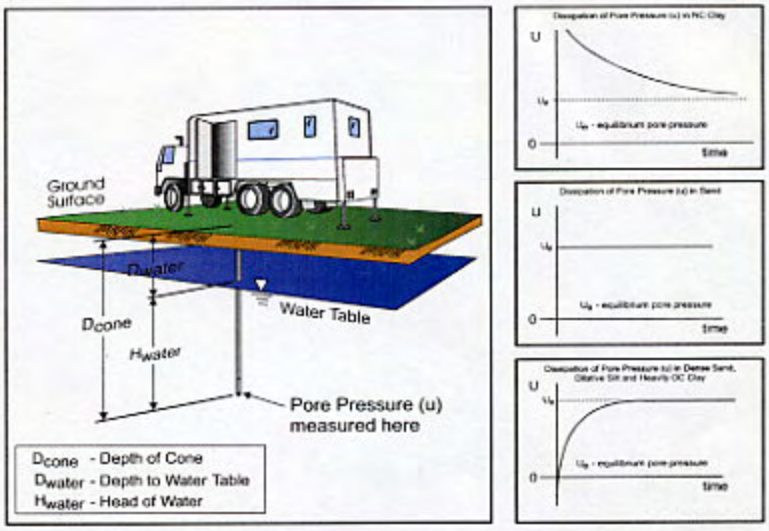
Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration 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

Groundwater Sampling (GWS)

Gregg In Situ, Inc. conducts groundwater sampling using a Hydropunch® type groundwater sampler, *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the drill rig to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 1 ¾ inch hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately ½ or ¾ inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

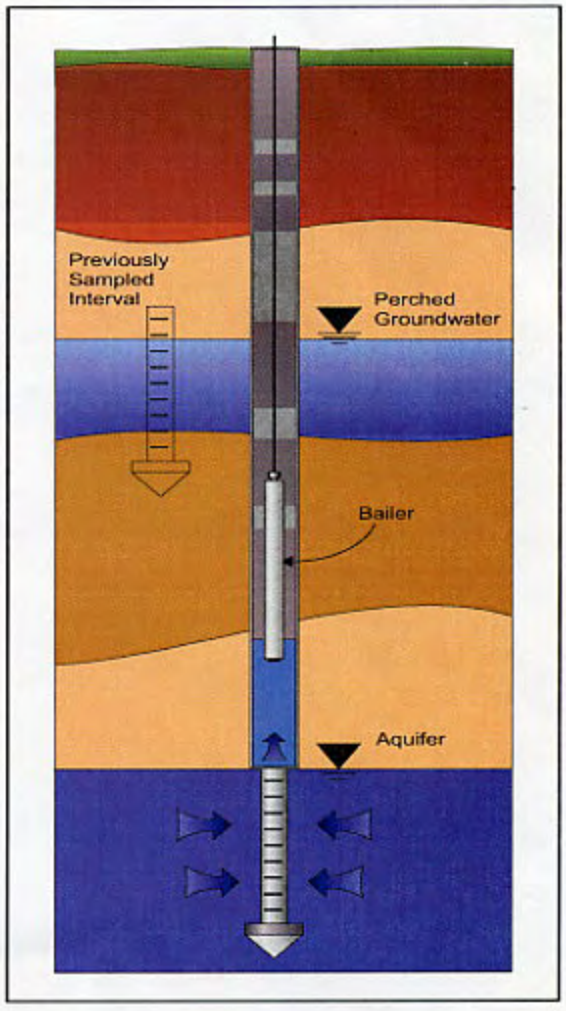


Figure GWS

A summary of the groundwater samples collected, including the sampling date, depth and location identification, is presented in Table 1 and the corresponding CPT plot.

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.

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

File No. 10-93-567-ST

A P P E N D I X "D"

LABORATORY REPORTS

ENVIRO SOIL TECH CONSULTANTS

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Frank Hamedi
Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111

Lab Certificate Number: 55949
Issued: 07/03/2007

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore

Global ID: T06019716197

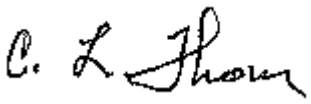
Certificate of Analysis - Final Report

On June 14, 2007, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix	Test / Comments
Liquid	Alcohols: EPA 5030B/ EPA 8015B
	Electronic Deliverables for Geotracker
	TPH-Purgeable - GC : EPA 5030B / EPA 8015B
	VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom
Laboratory Director

Entech Analytical Labs, Inc.

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Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-001 **Sample ID: CPT1-34-38** **Matrix:** Liquid **Sample Date:** 6/13/2007

Alcohols: EPA 5030B/ EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	ND		1.0	1.0	mg/L	N/A	N/A	6/18/2007	WGC5070618

Surrogate	Surrogate Recovery	Control Limits (%)
1-Butanol	112	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-001 **Sample ID: CPT1-34-38** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrolein	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrylonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzyl Chloride	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroform	**1.2**		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Detection Limit = Detection Limit for Reporting. ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments. Qual = Data Qualifier

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Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-001 **Sample ID: CPT1-34-38** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Cyclohexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methyl-t-butyl Ether	**1.4**		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Acetate	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethanol	ND		1.0	200	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	114	60 - 130
Dibromofluoromethane	102	60 - 130
Toluene-d8	102	60 - 130

Analyzed by: XBian
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-001 **Sample ID: CPT1-34-38** **Matrix:** Liquid **Sample Date:** 6/13/2007

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	6/20/2007	WGC070620

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	87.2	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-002 **Sample ID: CPT1-64-68** **Matrix:** Liquid **Sample Date:** 6/13/2007

Alcohols: EPA 5030B/ EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	ND		1.0	1.0	mg/L	N/A	N/A	6/18/2007	WGC5070618

Surrogate	Surrogate Recovery	Control Limits (%)
1-Butanol	111	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-002 **Sample ID: CPT1-64-68** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrolein	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrylonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzyl Chloride	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Detection Limit = Detection Limit for Reporting. ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments. Qual = Data Qualifier

Entech Analytical Labs, Inc.

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Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-002 **Sample ID: CPT1-64-68** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Cyclohexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Acetate	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethanol	ND		1.0	200	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	111	60 - 130
Dibromofluoromethane	103	60 - 130
Toluene-d8	104	60 - 130

Analyzed by: XBian
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
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131 Tully Road
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Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-002 **Sample ID: CPT1-64-68** **Matrix:** Liquid **Sample Date:** 6/13/2007

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	6/20/2007	WGC070620

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	86.2	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

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Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-003 **Sample ID: CPT2-18-22** **Matrix:** Liquid **Sample Date:** 6/13/2007

Alcohols: EPA 5030B/ EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	ND		1.0	1.0	mg/L	N/A	N/A	6/18/2007	WGC5070618

Surrogate	Surrogate Recovery	Control Limits (%)
1-Butanol	111	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

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Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-003 **Sample ID: CPT2-18-22** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,1-Trichloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2-Trichloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloropropene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichlorobenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichloropropane	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trichlorobenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trimethylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromo-3-Chloropropane	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromoethane (EDB)	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichlorobenzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloropropane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3,5-Trimethylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichlorobenzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichloropropane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dichlorobenzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dioxane	ND		2.0	100	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2,2-Dichloropropane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Butanone (MEK)	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chloroethyl-vinyl Ether	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chlorotoluene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Hexanone	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Chlorotoluene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Methyl-2-Pentanone(MIBK)	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetone	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetonitrile	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrolein	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrylonitrile	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzyl Chloride	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromobenzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromochloromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromodichloromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromoform	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromomethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Disulfide	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Tetrachloride	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chlorobenzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroform	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A

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ND = Not Detected at or above the Detection Limit.
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Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-003 **Sample ID: CPT2-18-22** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
cis-1,3-Dichloropropene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Cyclohexanone	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromochloromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromomethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dichlorodifluoromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Diisopropyl Ether	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethyl Benzene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Freon 113	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Hexachlorobutadiene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Iodomethane	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropanol	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropylbenzene	ND		2.0	2.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methyl-t-butyl Ether	**89**		2.0	2.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methylene Chloride	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Butylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Propylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Naphthalene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
p-Isopropyltoluene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Pentachloroethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
sec-Butylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Styrene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Amyl Methyl Ether	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butanol (TBA)	ND		2.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butyl Ethyl Ether	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butylbenzene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrachloroethene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrahydrofuran	ND		2.0	40	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Toluene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,2-Dichloroethene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,3-Dichloropropene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,4-Dichloro-2-butene	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichloroethene	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichlorofluoromethane	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Acetate	ND		2.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Chloride	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Xylenes, Total	ND		2.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethanol	ND		2.0	400	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110	60 - 130
Dibromofluoromethane	104	60 - 130
Toluene-d8	104	60 - 130

Analyzed by: XBian
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
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Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-003 **Sample ID: CPT2-18-22** **Matrix:** Liquid **Sample Date:** 6/13/2007

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	6/20/2007	WGC070620

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	87.1	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-004 **Sample ID: CPT2-31-35** **Matrix:** Liquid **Sample Date:** 6/13/2007

Alcohols: EPA 5030B/ EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	ND		1.0	1.0	mg/L	N/A	N/A	6/18/2007	WGC5070618

Surrogate	Surrogate Recovery	Control Limits (%)
1-Butanol	106	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

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Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-004 **Sample ID: CPT2-31-35** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrolein	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrylonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzyl Chloride	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroform	**0.66**		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A

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Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-004 **Sample ID: CPT2-31-35** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Cyclohexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrachloroethene	**0.88**		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Acetate	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethanol	ND		1.0	200	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	108	60 - 130
Dibromofluoromethane	102	60 - 130
Toluene-d8	106	60 - 130

Analyzed by: XBian
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-004 **Sample ID: CPT2-31-35** **Matrix:** Liquid **Sample Date:** 6/13/2007

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	6/20/2007	WGC070620

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.2	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-005 **Sample ID: CPT2-55-59** **Matrix:** Liquid **Sample Date:** 6/13/2007

Alcohols: EPA 5030B/ EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Methanol	ND		1.0	1.0	mg/L	N/A	N/A	6/18/2007	WGC5070618

Surrogate	Surrogate Recovery	Control Limits (%)
1-Butanol	107	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-005 **Sample ID: CPT2-55-59** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrolein	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Acrylonitrile	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Benzyl Chloride	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Detection Limit = Detection Limit for Reporting. ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments. Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-005 **Sample ID: CPT2-55-59** **Matrix:** Liquid **Sample Date:** 6/13/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Cyclohexanone	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Acetate	ND		1.0	5.0	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	6/22/2007	WM1A070622A
Ethanol	ND		1.0	200	µg/L	N/A	N/A	6/22/2007	WM1A070622A

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110	60 - 130
Dibromofluoromethane	107	60 - 130
Toluene-d8	106	60 - 130

Analyzed by: XBian
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 **Phone: (408) 588-0200** **Fax: (408) 588-0201**

Enviro Soil Tech Consultants
131 Tully Road
San Jose, CA 95111
Attn: Frank Hamedi

Project Number: 10-93-567-ST
Project Name: 909 Bluebell Drive
Project Location: Livermore
GlobalID: T06019716197

Certificate of Analysis - Data Report

Samples Received: 06/14/2007
Sample Collected by: Client

Lab # : 55949-005 **Sample ID: CPT2-55-59** **Matrix:** Liquid **Sample Date:** 6/13/2007

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	6/20/2007	WGC070620

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.6	65 - 135

Analyzed by: EricKum
Reviewed by: TFulton

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC070620

Validated by: TFulton - 06/26/07

QC Batch Analysis Date: 6/20/2007

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**87.5**	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC070620

Reviewed by: TFulton - 06/26/07

QC Batch ID Analysis Date: 6/20/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	125	119	µg/L	95.2	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**116**	65 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	125	119	µg/L	95.2	0.00	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**102**	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - Alcohols: EPA 5030B/ EPA 8015B

QC Batch ID: WGC5070618

Validated by: TFulton - 06/28/07

QC Batch Analysis Date: 6/28/2007

Parameter	Result	DF	PQLR	Units
Methanol	ND	1	1.0	mg/L

Surrogate for Blank	% Recovery	Control Limits
1-Butanol	**114**	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - Alcohols: EPA 5030B/ EPA 8015B

QC Batch ID: WGC5070618

Reviewed by: TFulton - 06/28/07

QC Batch ID Analysis Date: 6/28/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Methanol	<1.0	50	49.8	mg/L	99.6	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	**108**	65 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Methanol	<1.0	50	50.0	mg/L	100	0.401	25.0	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	**111**	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - Alcohols: EPA 5030B/ EPA 8015B

QC Batch ID: WGC5070618

Reviewed by: TFulton - 06/28/07

QC Batch ID Analysis Date: 6/28/2007

MS Sample Spiked: 55949-005

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Methanol	0.00	50	47.4	mg/L	6/28/2007	94.8	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	**106**	65 - 135

MSD Sample Spiked: 55949-005

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Methanol	0.00	50	48.3	mg/L	6/28/2007	96.6	1.88	25.0	65 - 135

Surrogate	% Recovery	Control Limits
1-Butanol	**107**	65 - 135

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1A070622A

Validated by: TFulton - 06/25/07

QC Batch Analysis Date: 6/22/2007

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
1,4-Dioxane	ND	1	50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Butanone (MEK)	ND	1	20	µg/L
2-Chloroethyl-vinyl Ether	ND	1	5.0	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
2-Hexanone	ND	1	20	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
4-Methyl-2-Pentanone(MIBK)	ND	1	20	µg/L
Acetone	ND	1	20	µg/L
Acetonitrile	ND	1	5.0	µg/L
Acrolein	ND	1	5.0	µg/L
Acrylonitrile	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Benzyl Chloride	ND	1	5.0	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Disulfide	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
cis-1,3-Dichloropropene	ND	1	0.50	µg/L
Cyclohexanone	ND	1	20	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L

Entech Analytical Labs, Inc.

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1A070622A

Validated by: TFulton - 06/25/07

QC Batch Analysis Date: 6/22/2007

Parameter	Result	DF	PQLR	Units
Dichlorodifluoromethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethanol	ND	1	200	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Freon 113	ND	1	5.0	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L
Iodomethane	ND	1	5.0	µg/L
Isopropanol	ND	1	20	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	20	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
Pentachloroethane	ND	1	0.50	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L
Tetrachloroethene	ND	1	0.50	µg/L
Tetrahydrofuran	ND	1	20	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
trans-1,3-Dichloropropene	ND	1	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	1	5.0	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Acetate	ND	1	5.0	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**109**	60 - 130
Dibromofluoromethane	**98.7**	60 - 130
Toluene-d8	**105**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1A070622A

Reviewed by: TFulton - 06/25/07

QC Batch ID Analysis Date: 6/22/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	22.3	µg/L	112	70 - 130
Benzene	<0.50	20	22.3	µg/L	112	70 - 130
Chlorobenzene	<0.50	20	20.5	µg/L	102	70 - 130
Methyl-t-butyl Ether	<1.0	20	21.1	µg/L	106	70 - 130
Toluene	<0.50	20	19.4	µg/L	97.0	70 - 130
Trichloroethene	<0.50	20	20.1	µg/L	100	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**117**	60 - 130
Dibromofluoromethane	**108**	60 - 130
Toluene-d8	**98.4**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	21.2	µg/L	106	5.06	25.0	70 - 130
Benzene	<0.50	20	21.2	µg/L	106	5.06	25.0	70 - 130
Chlorobenzene	<0.50	20	21.1	µg/L	106	2.88	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.3	µg/L	112	5.53	25.0	70 - 130
Toluene	<0.50	20	20.0	µg/L	100	3.05	25.0	70 - 130
Trichloroethene	<0.50	20	20.5	µg/L	102	1.97	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**108**	60 - 130
Dibromofluoromethane	**106**	60 - 130
Toluene-d8	**99.2**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1A070622A Reviewed by: TFulton - 06/25/07

QC Batch ID Analysis Date: 6/22/2007

MS Sample Spiked: 55949-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
1,1-Dichloroethene	ND	20	20.6	µg/L	6/22/2007	103	70 - 130
Benzene	ND	20	22.5	µg/L	6/22/2007	112	70 - 130
Chlorobenzene	ND	20	23.9	µg/L	6/22/2007	120	70 - 130
Methyl-t-butyl Ether	ND	20	22.3	µg/L	6/22/2007	112	70 - 130
Toluene	ND	20	24.1	µg/L	6/22/2007	120	70 - 130
Trichloroethene	ND	20	21.5	µg/L	6/22/2007	108	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**94.2**	60 - 130
Dibromofluoromethane	**103**	60 - 130
Toluene-d8	**108**	60 - 130

MSD Sample Spiked: 55949-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	ND	20	18.2	µg/L	6/22/2007	91.0	12.4	25.0	70 - 130
Benzene	ND	20	19.0	µg/L	6/22/2007	95.0	16.9	25.0	70 - 130
Chlorobenzene	ND	20	20.2	µg/L	6/22/2007	101	16.8	25.0	70 - 130
Methyl-t-butyl Ether	ND	20	17.4	µg/L	6/22/2007	87.0	24.7	25.0	70 - 130
Toluene	ND	20	19.2	µg/L	6/22/2007	96.0	22.6	25.0	70 - 130
Trichloroethene	ND	20	19.6	µg/L	6/22/2007	98.0	9.25	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**97.5**	60 - 130
Dibromofluoromethane	**93.8**	60 - 130
Toluene-d8	**102**	60 - 130

CHAIN OF CUSTODY RECORD

PROJ. NO. 10-93-567-5T | NAME 909 Bluebell Drive, Livermore

SAMPLERS: (Signature)

55949

NO.	DATE	TIME	SOIL	WATER	LOCATION	CONTAINER	TPHg by 8015 MOD	EPA 8260B*	Ethanol & Methanol	REMARKS
1	6/13/07	001		✓	CPT1-34-38	6	✓	✓	✓	EDF#T0601971697
2		002		✓	CPT1-64-68	6	✓	✓	✓	
3		003		✓	CPT2-18-22	6	✓	✓	✓	*Full lists
4		004		✓	CPT2-31-35	6	✓	✓	✓	
5	↓	005		✓	CPT2-55-59	6	✓	✓	✓	Note: Please label all field points according to the Chain
										All vials are HCl preserved
										6 VOAs each (HCl)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Receive by: (Signature)
	6/14/07 1427				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Please send lab report to Frank Hamedi	

ENVIRO SOIL TECH CONSULTANTS
Environmental & Geotechnical Consultants
131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111
Tel: (408) 297-1500 Fax: (408) 292-2116

A P P E N D I X "E"

DRILLING PERMITS

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 909 Bluebell Drive
Livermore, CA 94551

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name Masood Amini Filabadi
Address 909 Bluebell Drive Phone 925-371-0994
City Livermore Zip 94551

APPLICANT
Name Enviro Soil Tech Consultants
Fax 408-292-2116
Address 131 Tully Road Phone 408-297-1500
City San Jose Zip 95111

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	••	General	••
Water Supply	••	Contamination	••
Monitoring	••	Well Destruction	••

PROPOSED WELL USE

New Domestic	••	Irrigation	••
Municipal	••	Remediation	••
Industrial	••	Groundwater Monitoring	••
Dewatering	••	Other _____	••••

DRILLING METHOD:

Mud Rotary	••	Air Rotary	••	Hollow Stem Auger	••
Cable Tool	••	Direct Push	••	Other _____	••••

DRILLING COMPANY Gregg Drilling
DRILLER'S LICENSE NO. 656407

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS
Number of Borings 2 CPT Maximum
Hole Diameter 2 in. Depth 50 ft.

ESTIMATED STARTING DATE 6/13/07
ESTIMATED COMPLETION DATE 6/13/07

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE _____ Date 5/21/07

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 27095
WELL NUMBER _____
APN 099-0022-001-00

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved Wyman Hong Date 5/24/07
Wyman Hong

Revised: April 27, 2005