

# Quik Stop Markets, Inc.

4567 Enterprise Street • Fremont, CA 94538 • (510) 657-8500 • Fax: (510) 657-1544

**RECEIVED**

*11:09 am, Feb 02, 2012*

Alameda County  
Environmental Health

January 18, 2012

Mr. Paresh C. Khatri  
Sr. Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

Reference: Quik Stop Market #56  
3132 Beaumont Avenue  
Oakland, CA 94602

**Subject: Additional Soil and Groundwater Investigation Report**

Dear Mr. Khatri:

I have reviewed and approved the subject report dated January 2012. I declare, under penalty of perjury, that the information and/or conclusions contained in the report are true and correct, to the best of my knowledge.

Sincerely,  
QUIK STOP MARKETS, INC.



Mike Karvelot  
Director of Environmental Affairs



**One Concord Center  
2300 Clayton Road, Suite 610  
Concord, CA 94520**

925.688.1200 PHONE  
925.688.0388 FAX

www.TRCSolutions.com

January 20, 2012

Project No. 188426

Mr. Paresh Khatri  
Alameda County Health Care Services Agency  
Department of Environmental Health  
Hazardous Materials Program  
1131 Harbor Bay Parkway  
Alameda, California 94502-6577

**SITE: QUIK STOP MARKET NO. 56  
3132 BEAUMONT AVENUE  
OAKLAND, CALIFORNIA**

**RE: Additional Soil and Ground Water Investigation Report**

Dear Mr. Khatri:

Enclosed is a copy of the *Additional Soil and Ground Water Investigation Report* for the property located at 3132 Beaumont Avenue in Oakland, California. This report is submitted on behalf of Quik Stop Markets, Inc.

Please direct all questions and correspondence to:

Mr. Mike Karvelot  
Quik Stop Markets, Inc.  
4567 Enterprise Street  
Fremont, California 94538  
Phone: (510) 657-8500

Sincerely,

Jonathan Scheiner  
Project Manager

cc: Mr. Mike Karvelot, Quik Stop Markets, Inc.



# **ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION REPORT**

**Quik Stop No. 56**  
3132 Beaumont Avenue  
Oakland, California

*Prepared for:*  
**Quik Stop Markets, Inc.**

*Prepared by:*  
**TRC**  
2300 Clayton Road, Suite 610  
Concord, California

**January 2012**



## ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION REPORT

Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California

*Prepared for:*  
Quik Stop Markets, Inc.

*Prepared by:*

Handwritten signature of Mike Sellwood.

---

Mike Sellwood, PG  
Senior Staff Geologist

Handwritten signature of Jonathan E. Scheiner.

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Jonathan Scheiner, Ph.D.  
Senior Project Manager



**TRC**  
2300 Clayton Road, Suite 610  
Concord, California  
(925) 688-1200

January 20, 2012

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## **1.0 INTRODUCTION**

On behalf of Quik Stop Markets Incorporated (Quik Stop), TRC has prepared this Additional Soil and Groundwater Investigation Report for the Quik Stop No. 56 located at 3132 Beaumont Avenue, Oakland, California (Site) (Figure 1). This report has been prepared to summarize field work conducted at the Site in accordance with the *Additional Soil and Groundwater Investigation Workplan* submitted by TRC on September 12, 2011. The work scope detailed in the Workplan was proposed and approved in response to a letter request dated June 23, 2011 from the Alameda County Health Care Services, Department of Environmental Health (ACDEH), per review of the Site Conceptual Model (SCM) submitted to ACDEH in February 2011 (TRC, 2011a). This work scope focused on the requested vertical characterization of potential hydrocarbon and oxygenate impacts to groundwater in areas downgradient of the Site.

## **2.0 SITE BACKGROUND**

### **2.1 Site Description**

The Site is currently operated as a Quik Stop Market convenience store/gasoline service station, and is surrounded by three city streets: Beaumont Avenue, 14th Avenue and East 31st Street. Most of the surrounding land use is residential, consisting of apartment and single-family buildings. The Alameda County Medical Center is located approximately 300 feet to the southwest on 14th Avenue. A Site vicinity map is included as Figure 1 and a site plan is included as Figure 2. A summary of previously completed investigations and findings at the Site is included in Section 3.0.

### **2.2 Geology**

The Site is situated at an elevation of approximately 140 feet above mean sea level, with topography generally sloping to the southwest. The Site is located in the eastern part of the San Francisco Bay area, and is underlain by Quaternary (Pleistocene) alluvium (Muir, 1993 and Graymer, 2000). This alluvium consists of coalescing alluvial fans, and estuarine and marine deposits. These deposits are heterogeneous inter-fingering layers of clayey gravel, sandy silty clay, and various clay-silt-sand mixtures, having a maximum thickness of approximately 200 feet below grade (fbg) in the Site vicinity. Soil types immediately beneath the Site consist of stiff, dry, silty and sandy clays from the surface to a depth of approximately 13 fbg, moist or saturated silty sand or clayey silt from approximately 13 to 25 fbg, and silty clay from approximately 25 to 30 fbg. Sands and silty sands are present from 30 to 55 fbg in the vicinity of the site and are followed by sandy and clayey silt to the total depth explored of 60 fbg.

### **2.3 Hydrogeology**

The Site is located in the East Bay Plain Groundwater Basin, Oakland Upland and Alluvial Plain Subarea (Muir, 1993). Regionally, shallow groundwater occurs in numerous small, discontinuous aquifers within the unconsolidated Quaternary alluvium (Godfrey, 1995), and generally flows to the southwest toward the San Francisco Bay (Alameda County Public Works Agency [ACPWA], 1999).

Observations made during the installation of the Site monitoring wells indicate that, with the exception of MW-5, saturated sediments in the vicinity of the Site are located at and below 13

fbg. Thus the monitoring wells were installed with screens set just above the top of these saturated sediments. Since the monitoring wells were installed, the depth to groundwater levels in these wells has consistently been observed at elevations 10 to 15 feet higher than where the saturated sediments were observed during the well installations. These water levels and the stiff, dry clays that were observed in the borings during drilling indicate that the groundwater at the Site is under confining conditions created by the upper clay layer. These observations are consistent with confined aquifer conditions reported for a nearby remediation site (approximately 1/5 mile northeast of the Site), at which semi-confined aquifer conditions were reported, with saturated soils present at 12 fbg and groundwater levels in wells observed at depths of 5 to 9 fbg since 2001 (CRA, 2010).

During the most recent groundwater monitoring event (June 9, 2011), groundwater flow direction was consistent with historic observations indicating a predominantly southwest gradient (e.g., 0.064 feet per foot in the northern portion of the study area, and approximately 0.025 feet per foot over the entire extent of the well network - extending to MW-6 at the southern end of the study area - in the Second Quarter 2011 event). South-southeastern and western components of groundwater flow are also evident at the west and east portions of the well network, respectively. The observed groundwater flow direction and gradient is attributed to local topography, with 14<sup>th</sup> Avenue (Beaumont Avenue) forming a north-south depression relative to the steeply trending perpendicular East 31<sup>st</sup> Street to the east and west. Surface topography is also generally steeper at the north end of the study area (near Site) than at the south end (near MW-6), which could explain the gentler gradient in the south relative to that in the northern portion of the study area.

### 3.0 PREVIOUS INVESTIGATIONS

**September 1998:** Two 10,000-gallon steel gasoline USTs were excavated, removed from the Site, and replaced with two 12,000-gallon double-walled, fiberglass USTs. A small 1/8 inch diameter hole was found near the bottom of the southern end of the UST that was located closest to Beaumont Avenue (labeled UST T-2) (Garlow, 1998).

During the re-grading activities, approximately 792 cubic yards of soil were excavated to remove impacted soil and accommodate the new orientation of the USTs. Excavated soil was transported under manifest to Forward Landfill in Manteca, California for disposal (Garlow, 1998). Soil samples collected during the removal of the USTs were below laboratory reporting limits for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE), except for 0.53 milligrams per kilogram (mg/kg) MTBE detected in one sample collected from the southern corner of the excavation (SW-1, near UST T-2), and 240 mg/kg TPH-g, 0.85 mg/kg ethylbenzene, and 1.3 mg/kg total xylenes in soil sample SW-2 (located near UST T-1).

According to the 1998 Underground Storage Tank Removal Report prepared by Garlow Associates (Garlow, 1998), a water line was damaged and resulted in water flowing into the excavation pit during the excavation of the USTs. Due to the presence of this water, Garlow was unable to determine the presence or absence of groundwater. Grab water samples were collected from the water accumulated at bottom of the excavation. Maximum concentrations of TPH-g and MTBE of 1,800 micrograms per liter ( $\mu\text{g}/\text{L}$ ) and 5,500  $\mu\text{g}/\text{L}$ , respectively, were reported during the tank removal investigation (Garlow, 1998).



**February 2000:** Three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed at the locations shown in Figure 2. Low levels of TPH-g were reported in a soil sample collected during installation of MW-1 at 6.5 fbg (2.9 mg/kg), but were not detected in other soil samples collected at that time. Low MTBE concentrations were detected in soil samples collected from MW-1 at depths ranging from 6.5 to 21.5 fbg, and from MW-3 at depths of 6 and 11 fbg. Reported MTBE concentrations in soil ranged from 0.0083 to 0.66 mg/kg. Benzene was detected at 0.038 mg/kg in one soil sample collected at 6 fbg from MW-3. Toluene and ethylbenzene were not detected in any of the soil samples. Low xylene concentrations were detected in MW-1 at 6.5 fbg (0.0097 mg/kg) and MW-3 at 6 fbg (0.019 mg/kg).

**October 2006:** A total of seven soil borings were completed using a cone penetration testing (CPT) rig and/or a direct push drilling rig at the following locations:

- B-1, B-2: Located in the middle of Beaumont Avenue just north of East 31st Street
- B-4, B-5: Located on 14<sup>th</sup> Avenue just east of the Site
- B-6: Located on the north side of 31<sup>st</sup> Street east of the Site
- B-7: Located on the south side of 31<sup>st</sup> Street east of the Site, and
- B-8: Located on 14<sup>th</sup> Avenue adjacent to Highland Hospital south of the Site.

Soil and groundwater samples were collected from each location and sent to a state-certified laboratory for analysis (TRC, 2007). Low concentrations of TPH-g (1.2 mg/kg) were detected in the soil sample collected from Boring B-4 at 8 fbg. No detectable levels of other constituents of concern were reported above applicable laboratory detection limits in soil samples collected during the October 2006 investigation. MTBE concentrations were reported in grab groundwater samples collected from six of the seven borings at a maximum level of 710 µg/L (B-2). The maximum concentration of TPH-g was reported in the grab groundwater sample collected from B-2 at 410 µg/L (TRC, 2007).

**May and June 2009:** Four groundwater monitoring wells (MW-4 through MW-7) were installed at the locations shown on Figure 2. Low levels of TPH-g, total petroleum hydrocarbons as diesel (TPH-d), MTBE, and TBA were detected in the soil samples collected from the borings for the monitoring wells. TPH-g and TBA were detected at a maximum of 0.25 and 0.49 mg/kg, respectively, in the soil sample collected at 5 fbg from the boring for MW-4. TPH-d was detected at a maximum of 2.6 mg/kg in the soil sample collected at 10 fbg from the boring for MW-4. MTBE was detected at a maximum concentration of 0.010 mg/kg in the soil sample collected at 15 fbg from the boring for MW-6. No other constituents of concern (COCs) were detected in the soil samples collected from the borings for the monitoring well installations (TRC, 2009).

**February 2011:** Pursuant to request by ACDEH, a comprehensive SCM was completed for the Site to identify data gaps and to evaluate applicability of the Site for regulatory closure. Following review of the SCM, ACDEH requested additional characterization of deeper water-bearing zones. The subject investigation summarized herein is responsive to this request.

## **4.0 SITE ASSESSMENT ACTIVITIES**

### **4.1 Pre-Field Work Activities**

Underground Services Alert (USA) was notified prior to field activities to mark underground





utilities near the boring locations. Boring installation permits were obtained from the Alameda County Public Works Agency and encroachment permits were obtained from the City of Oakland. Prior to drilling each boring, a pilot-hole was hand-augured to approximately 5-8 fbg to verify the absence of buried utilities.

#### 4.2 CPT Soil Boring and Groundwater Sampling

The borings were advanced using a cone penetrometer testing (CPT) drilling rig at the locations shown on Figure 2 from November 29, 2011 to December 1, 2011. The borings were advanced to a depth of 60 fbg in an attempt to identify a second water bearing zone and, if present, to fully characterize the vertical groundwater concentration profile and maximum depth of groundwater impacts. Two (2) depth-discrete groundwater samples were collected from each deeper vertical horizon where permeable, saturated soil conditions were anticipated or observed (with the exception of CPT-3, where only one sample was collected) using a Hydropunch sampling device. The depths that Hydropunch groundwater samples were collected ranged from 31 fbg to 50 fbg. Groundwater samples were not collected from the upper water bearing zone (maximum depth of approximately 20 fbg) because these boring locations are near previous boring locations where samples have already been collected from the upper water bearing zone and where current ongoing groundwater monitoring provides ongoing scheduled coverage from nearby completed monitoring wells.

During the advancement of the cone penetrometer at location CPT-2, a City of Oakland storm water sewer line was punctured at a depth of approximately 6 fbg. The storm sewer line was a 15-inch diameter ABS plastic pipe and was punctured at the top center of the pipe. After noticing that a utility had been encountered, advancement of the cone penetrometer was immediately ceased; the bottom of the pipe was therefore not punctured. The City of Oakland was notified and the pipe was video surveyed to inspect the integrity of the pipe. The City of Oakland confirmed the puncture with the video survey and concluded that the pipe did not warrant repair due to the small size of the puncture at the top of the pipe, and the fact that the bottom of the pipe was not impacted. The boring was then properly sealed using bentonite chips and neat cement grout to the surface.

In order to obtain depth-discrete groundwater samples, two (2) separate co-located borings were advanced at each location. The first boring at each location was advanced to total depth to determine soil behavior type using the integrated electronic cone system of the CPT rig. Lithologic and pore pressure data obtained during the initial CPT logging run was then used to identify the specific high permeability lithologies for subsequent depth-discrete Hydropunch groundwater sampling. The second boring was advanced to collect depth-discrete groundwater samples from the target depths identified.

Depth-discrete grab groundwater samples were collected using a disposal PVC screen. The disposal PVC was fitted with a disposable tip and placed into the lead stainless steel drive rod, which was then advanced into the water-yielding zone, then the drive rod was withdrawn to expose the PVC screen. Groundwater was collected from inside the screen using a clean stainless steel bailer and then placed in the sample bottles.

All groundwater samples were placed in an ice-chilled cooler and shipped to Alpha Analytical, Inc., a California-certified analytical laboratory under proper chain-of-custody protocol for analysis. The depth-discrete groundwater samples were analyzed for the following constituents



by EPA Method 8260, consistent with the analytical program routinely included in ongoing groundwater monitoring at the subject site:

- TPH-G
- BTEX
- MTBE
- Di-isopropyl ether (DIPE)
- Ethyl Tertiary Butyl Ether (ETBE)
- Tertiary Amyl Methyl Ether (TAME)
- TBA

After sampling was completed at each location the borings were properly sealed with neat cement grout under the supervision of an Alameda County Public Works well inspector. A tremie pipe was used to place the grout from the bottom of the boring to grade level in one continuous pour.

#### 4.3 Waste Disposal

Soil generated during site assessment activities will be stored onsite in Department of Transportation (DOT) approved 55-gallon drums. The waste will remain onsite until the proper method for disposal is assessed. Waste manifests will be prepared for proper transport and disposal of the waste.

### 5.0 EVALUATION OF FINDINGS

The lithology data collected using the cone penetrometer shows multiple permeable layers of sand to silty sand from depths of 30 fbg to 50 fbg. A well defined sand layer is present at all four CPT locations at depths ranging from approximately 30 fbg to 36 fbg with a maximum thickness of approximately 2.5 feet at boring CPT-4. This sand layer was specifically targeted with samples CPT-2-34 and CPT-4-36. A second area of permeable soils is present from approximately 38 fbg to 43 fbg. This area, which appears to be predominantly sand to silty sand, was targeted with samples CPT-1-41, CPT-2-44, CPT-3-42, and CPT-4-44. One deeper sample, CPT-1-50, was collected at an interval depth of 45-50 fbg from an area of denser, consolidated soils. This denser, consolidated area of soils was not observed at that depth in the cross-gradient or the down-gradient CPT boring locations. A deeper sample was attempted at location CPT-3 at an interval depth of 45-48 fbg, but no groundwater was present.

MTBE was detected in groundwater ranging from 0.96 ug/L at boring CPT-3 (42 fbg) to 14 ug/L at boring CPT-2 (44 fbg). At boring locations CPT-1 and CPT-4 MTBE was detected in the shallow samples (4.5 ug/L and 3.8 ug/L, respectively) while the deeper groundwater samples were non-detect for MTBE. MTBE concentrations at boring location CPT-2 increased with depth from 4.3 ug/L to 14 ug/L. Only one groundwater sample was collected at boring CPT-3, from a depth of 42 fbg, and was reported to contain an MTBE concentration of 0.96 ug/L. No groundwater was found at the deeper sampling depth from 45 to 48 fbg at CPT-3. All other analytes were below laboratory reporting limits.

CPT boring logs are presented in Appendix A and analytical data is presented in Table 1, Figure 2, and Appendix B.



## 6.0 CONCLUSIONS

The CPT investigation conducted at the Site showed an area of permeable soils at depths ranging from 30 fbg to 50 fbg and less permeable soils from 50 to 60 fbg. Groundwater samples collected from the (4) CPT locations were non-detect for all analytes except for MTBE, which was reported at low levels in 5 of 7 groundwater samples. With the exception of CPT-2, groundwater concentrations of MTBE decrease with depth. Laterally the concentrations of MTBE in shallower groundwater samples are consistent across upgradient and downgradient CPT locations.

## 7.0 REFERENCES

- Alameda County Public Works Agency (ACPWA), 1999. Frank Codd, Personal Communication via Facsimile (map of groundwater levels in the City of Oakland area), November 16.
- California Regional Water Quality Control Board, San Francisco Bay Region, June 1999. *East Bay Plain Groundwater Basin, Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA.*
- Conestoga-Rovers & Associates (CRA), 2010, *Revised Additional Site Characterization Report, Gatzke/Hooshi's Auto Service, 1499 Macarthur Boulevard, Oakland, California, 94602, January 29.*
- Garlow Associates, 1998, *Underground Storage Tank Removal Report, Quik Stop Market No. 56, 3132 Beaumont Ave, Oakland, Ca, November 25.*
- Graymer, R.W., 2000, *Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California, U.S. Geological Survey Miscellaneous Field Studies MF-2342, Version 1.0.*
- Muir, Kenneth S., 1993. *Geologic Framework of the East Bay Plain Groundwater Basin, Alameda County, California; Alameda County Flood Control and Water Conservation District, August.*
- RWQCB, 2007, Water Quality Control Plan San Francisco Bay Basin (Region 2), January 21.
- TRC, 2007. *Soil & Groundwater Investigation Report, Quik Stop No. 56, 3132 Beaumont Ave, Oakland, California, January 15.*
- TRC, 2009, *Well Installation Report, Quik Stop No. 56, 3132 Beaumont Ave, Oakland, California, August 21.*
- TRC, 2011, *Quarterly Groundwater Monitoring Report, Second Quarter 2011, Quik Stop No. 56, 3132 Beaumont Ave, Oakland, California, July 29.*
- TRC, 2011, *Additional Soil and Groundwater Investigation Workplan, Quik Stop No. 56, 3132 Beaumont Ave, Oakland, California, September 12.*

## TABLES

**Table 1**  
**Summary of Grab Groundwater Sample Analysis**  
 Quik Stop #56  
 3132 Beaumont Avenue, Oakland, California

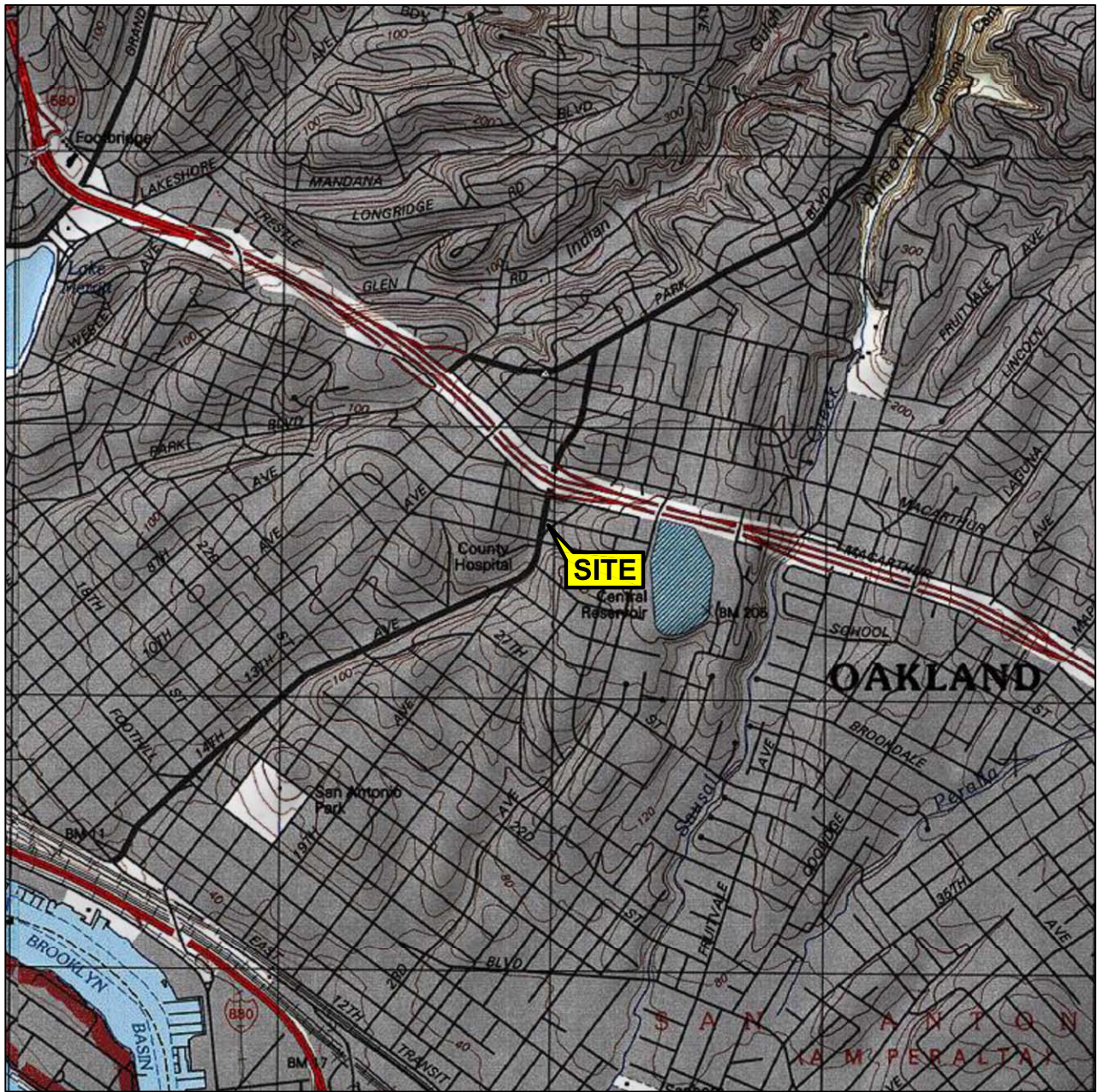
Sample ID	Date	Sample Depth (feet)	TPH-G (mg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)
CPT-1-41	11/29/11	38-41	<0.050	<b>4.5</b>	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-1-50	11/29/11	45-50	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-2-34	11/30/11	31-34	<0.050	<b>4.3</b>	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-2-44	11/30/11	39-44	<0.050	<b>14</b>	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-3-42	11/30/11	38-42	<0.050	<b>0.96</b>	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-4-36	12/01/11	32-36	<0.050	<b>3.8</b>	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
CPT-4-44	12/01/11	40-44	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0

NOTES:

TPH-G = Total petroleum hydrocarbons as gasoline  
 MTBE = Methyl tert butyl ether  
 mg/L = Milligrams per liter  
 µg/L = micrograms per liter  
 Bold = detected at or above the stated method detection limit  
 TBA = tertiary butyl alcohol  
 DIPE = di-isopropyl ether  
 ETBE = ethyl tertiary butyl ether  
 TAME = tertiary amyl methyl ether  
 < = not detected at or above the stated detection limit  
 -- = not analyzed

## FIGURES





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



SCALE 1 : 24,000



QUADRANGLE  
LOCATIONS

SOURCE:  
United States Geological Survey  
7.5 Minute Topographic Maps:  
Oakland East and  
Oakland West Quadrangles

**VICINITY MAP**

Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California



164030

**FIGURE 1**





**LEGEND**



MONITORING WELL (SURVEYED)



CPT LOCATION (APPROXIMATE)

<b>CPT-3</b>	42'
TPH-g	<0.050
BTEX	<0.50
MTBE	<b>0.96</b>

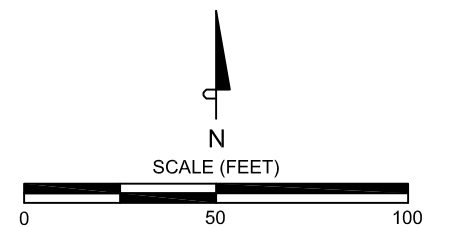
CHEMICAL CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L) WITH DEPTH OF SAMPLE IN FEET BELOW GROUND SURFACE

<b>CPT-3</b>	42'
TPH-g	<0.050
BTEX	<0.50
MTBE	<b>0.96</b>

<b>CPT-2</b>	34'	44'
TPH-g	<0.050	<0.050
BTEX	<0.50	<0.50
MTBE	<b>4.3</b>	<b>14</b>

<b>CPT-1</b>	41'	50'
TPH-g	<0.050	<0.050
BTEX	<0.50	<0.50
MTBE	<b>4.5</b>	<0.50

<b>CPT-4</b>	36'	44'
TPH-g	<0.050	<0.050
BTEX	<0.50	<0.50
MTBE	<b>3.8</b>	<0.50



SOURCES: Client-provided drawings and Garlow, 1998. Revised November 2001 per well survey by Doble Thomas Associates, and August 2009 per well survey of MW-4 through MW-8 by Virgil Chavez, PLS. Aerial photo by Google Earth, October 2009.

**SITE PLAN SHOWING CPT LOCATIONS AND CHEMICAL CONCENTRATIONS**

Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California

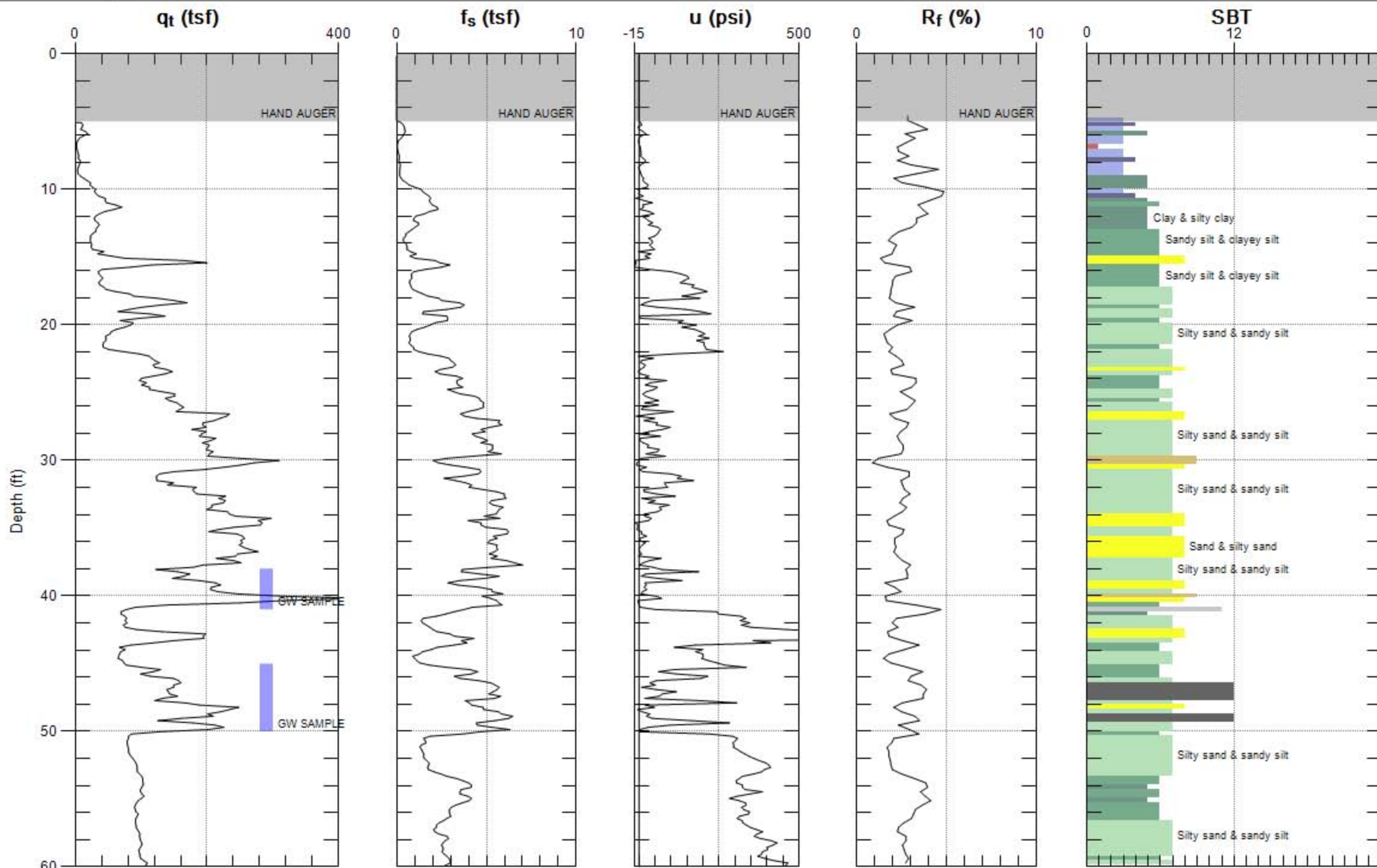


188426

**FIGURE 2**

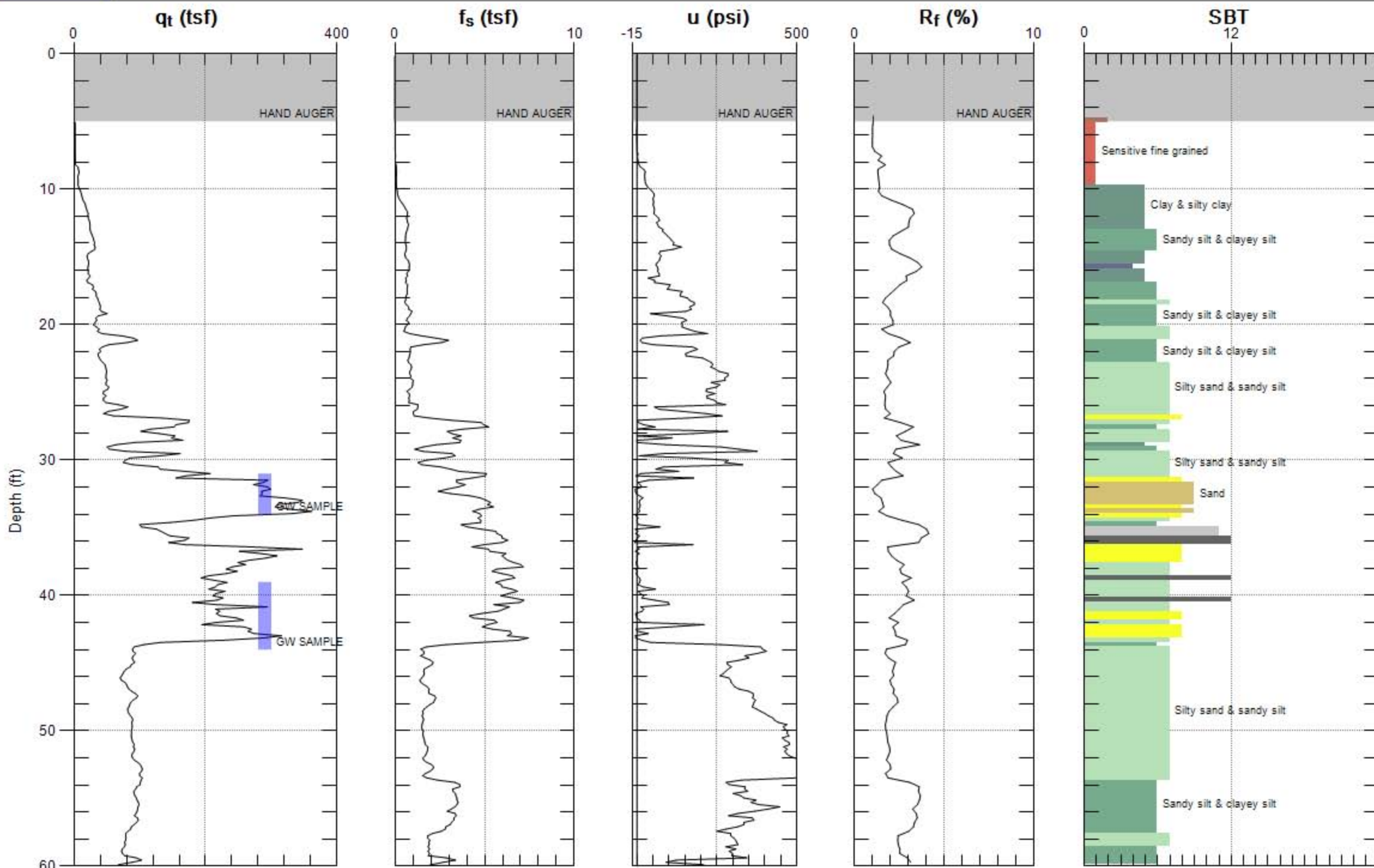


**APPENDIX A**  
**CPT Boring Logs**



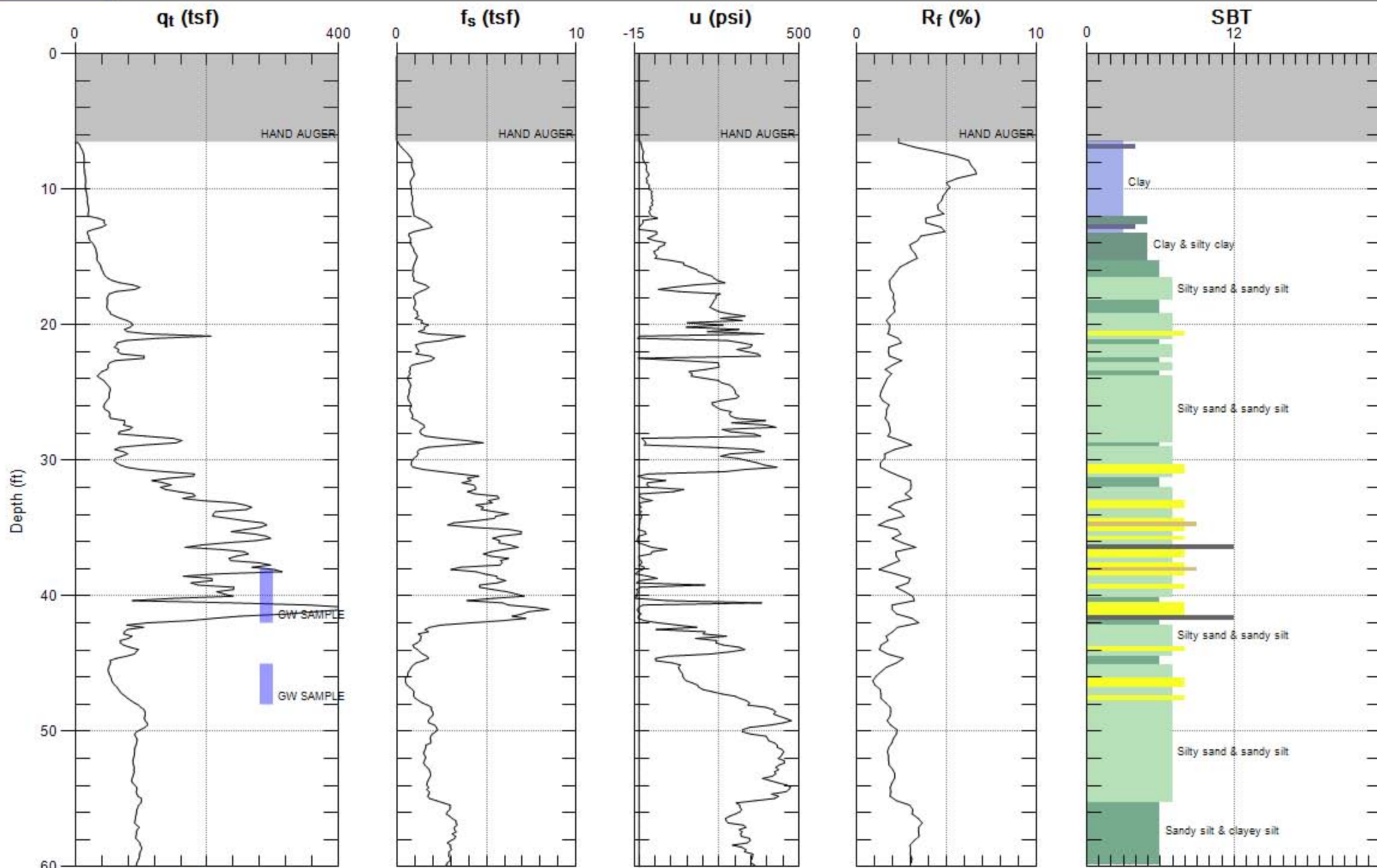
Max. Depth: 60.039 (ft)  
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



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

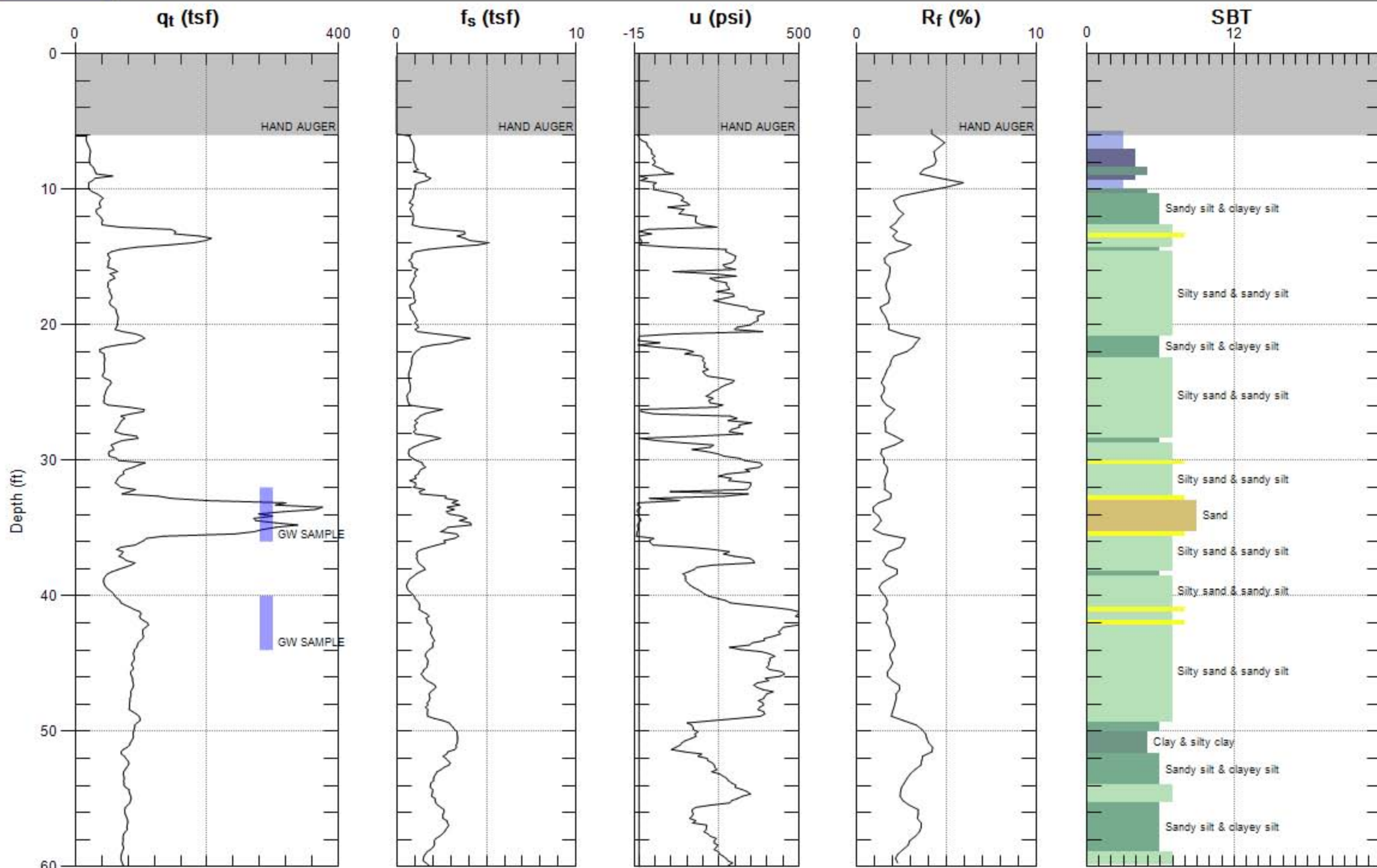
SBT: Soil Behavior Type (Robertson 1990)



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

SBT: Soil Behavior Type (Robertson 1990)





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

SBT: Soil Behavior Type (Robertson 1990)

## **APPENDIX B**

**Alpha Analytical, Inc. Laboratory Report**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

TRC-Alton Geoscience  
One Concord Center  
Concord, CA 94520

Attn: Rachelle Clair  
Phone: (925) 688-2464  
Fax: (925) 688-0388  
Date Received : 12/06/11

Job: 188426/TA02/Quik Stop 56

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	<b>CPT-1-41</b>					
Lab ID :	TRC11120613-01A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	11/29/11 12:05	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	4.5	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
Client ID :	<b>CPT-1-50</b>					
Lab ID :	TRC11120613-02A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	11/29/11 12:30	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
Client ID :	<b>CPT-2-34</b>					
Lab ID :	TRC11120613-03A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	11/29/11 09:15	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	4.3	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11



# Alpha Analytical, Inc.

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Client ID : **CPT-2-44**

Lab ID :	TRC11120613-04A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	11/29/11 09:30	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	14	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11

Client ID : **CPT-3-42**

Lab ID :	TRC11120613-05A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	11/29/11 13:40	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	0.96	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11

Client ID : **CPT-4-36**

Lab ID :	TRC11120613-06A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	12/01/11 11:00	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	3.8	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11

Client ID : **CPT-4-44**

Lab ID :	TRC11120613-07A	TPH-P (GRO)	ND	0.050 mg/L	12/08/11	12/08/11
Date Sampled	12/01/11 11:30	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	12/08/11	12/08/11
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	12/08/11	12/08/11
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	12/08/11	12/08/11
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	12/08/11	12/08/11
		Benzene	ND	0.50 µg/L	12/08/11	12/08/11
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	12/08/11	12/08/11
		Toluene	ND	0.50 µg/L	12/08/11	12/08/11
		Ethylbenzene	ND	0.50 µg/L	12/08/11	12/08/11
		m,p-Xylene	ND	0.50 µg/L	12/08/11	12/08/11
		o-Xylene	ND	0.50 µg/L	12/08/11	12/08/11





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Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

*PS*

12/19/11

**Report Date**



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## VOC Sample Preservation Report

Work Order: TRC11120613

Job: 188426/TA02/Quik Stop 56

Alpha's Sample ID	Client's Sample ID	Matrix	pH
11120613-01A	CPT-1-41	Aqueous	2
11120613-02A	CPT-1-50	Aqueous	2
11120613-03A	CPT-2-34	Aqueous	2
11120613-04A	CPT-2-44	Aqueous	2
11120613-05A	CPT-3-42	Aqueous	2
11120613-06A	CPT-4-36	Aqueous	2
11120613-07A	CPT-4-44	Aqueous	2

12/19/11  
Report Date



# Alpha Analytical, Inc.

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Date:  
19-Dec-11

## QC Summary Report

Work Order:  
11120613

### Method Blank

Type: MBLK Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS06\DATA\111208\11120806.D

Batch ID: MS06W1208B

Analysis Date: 12/08/2011 13:16

Sample ID: MBLK MS06W1208B

Units: mg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 13:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	0.05								
Surr: 1,2-Dichloroethane-d4	0.00909		0.01		91	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.00914		0.01		91	70	130			

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS06\DATA\111208\11120805.D

Batch ID: MS06W1208B

Analysis Date: 12/08/2011 12:51

Sample ID: GLCS MS06W1208B

Units: mg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 12:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.43	0.05	0.4		108	70	130			
Surr: 1,2-Dichloroethane-d4	0.00856		0.01		86	70	130			
Surr: Toluene-d8	0.0106		0.01		106	70	130			
Surr: 4-Bromofluorobenzene	0.00925		0.01		93	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS06\DATA\111208\11120810.D

Batch ID: MS06W1208B

Analysis Date: 12/08/2011 14:58

Sample ID: 11120613-01AGS

Units: mg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 14:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.4	0.25	2	0	120	51	144			
Surr: 1,2-Dichloroethane-d4	0.0434		0.05		87	70	130			
Surr: Toluene-d8	0.0511		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0454		0.05		91	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B/C

File ID: C:\HPCHEM\MS06\DATA\111208\11120812.D

Batch ID: MS06W1208B

Analysis Date: 12/08/2011 15:49

Sample ID: 11120613-01AGSD

Units: mg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 15:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.17	0.25	2	0	108	51	144	2.398	10.0(29)	
Surr: 1,2-Dichloroethane-d4	0.0431		0.05		86	70	130			
Surr: Toluene-d8	0.0518		0.05		104	70	130			
Surr: 4-Bromofluorobenzene	0.0455		0.05		91	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
19-Dec-11

## QC Summary Report

Work Order:  
11120613

### Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\111208\11120806.D

Batch ID: MS06W1208A

Analysis Date: 12/08/2011 13:16

Sample ID: MBLK MS06W1208A

Units: µg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 13:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
Di-isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	0.6	0.5								B
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.09		10		91	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	9.14		10		91	70	130			

### Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\111208\11120804.D

Batch ID: MS06W1208A

Analysis Date: 12/08/2011 12:25

Sample ID: LCS MS06W1208A

Units: µg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 12:25

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.6	0.5	10		86	65	140			
Benzene	10.3	0.5	10		103	70	130			
Toluene	10.7	0.5	10		107	80	120			
Ethylbenzene	11	0.5	10		110	80	120			
m,p-Xylene	11.8	0.5	10		112	70	130			
o-Xylene	11.3	0.5	10		113	70	130			
Surr: 1,2-Dichloroethane-d4	8.88		10		89	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	8.92		10		89	70	130			

### Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\111208\11120813.D

Batch ID: MS06W1208A

Analysis Date: 12/08/2011 16:15

Sample ID: 11120613-01AMS

Units: µg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 16:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	53.3	1.3	50	4.49	98	47	150			
Benzene	59.7	1.3	50	0	119	59	138			
Toluene	64.1	1.3	50	0	128	68	130			
Ethylbenzene	63.5	1.3	50	0	127	68	130			
m,p-Xylene	73.1	1.3	50	0	146	68	131			M1
o-Xylene	68.2	1.3	50	0	136	70	130			M1
Surr: 1,2-Dichloroethane-d4	42.5		50		85	70	130			
Surr: Toluene-d8	57		50		114	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			

### Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\111208\11120814.D

Batch ID: MS06W1208A

Analysis Date: 12/08/2011 16:41

Sample ID: 11120613-01AMSD

Units: µg/L

Run ID: MSD\_06\_111208A

Prep Date: 12/08/2011 16:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	51	1.3	50	4.49	93	47	150	53.25	4.3(40)	
Benzene	54.5	1.3	50	0	109	59	138	59.73	9.2(21)	
Toluene	57.8	1.3	50	0	116	68	130	64.07	10.2(20)	
Ethylbenzene	58.3	1.3	50	0	117	68	130	63.5	8.5(20)	
m,p-Xylene	64.1	1.3	50	0	128	68	131	73.06	13.1(20)	
o-Xylene	61.8	1.3	50	0	124	70	130	68.19	9.9(20)	
Surr: 1,2-Dichloroethane-d4	43.1		50		86	70	130			
Surr: Toluene-d8	57.1		50		114	70	130			
Surr: 4-Bromofluorobenzene	44.7		50		89	70	130			



# Alpha Analytical, Inc.

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Date:  
19-Dec-11

## QC Summary Report

Work Order:  
11120613

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

B = Target analyte detected in method blank at or above method reporting limit. Concentration found in each associated sample was either greater than 10 times above or below reporting limit.

# CHAIN-OF-CUSTODY RECORD

# CA

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : TRC11120613**  
**Report Due By : 5:00 PM On : 20-Dec-11**

**Client:**  
 TRC-Alton Geoscience  
 One Concord Center  
 2300 Clayton Rd., Ste. 610  
 Concord, CA 94520

Report Attention	Phone Number	E-Mail Address
Rachelle Clair	(925) 688-2464 x	rclair@trcsolutions.com
Mike Sellwood	x	msellwood@trcsolutions.com

EDD Required : Yes

Sampled by : Mike Sellwood

PO : 38378

Client's COC # : 57384

Job : 188426/TA02/Quik Stop 56

Cooler Temp	Samples Received	Date Printed
0 °C	06-Dec-11	06-Dec-11

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks	
				TPH/P_W	VOC_W						
TRC11120613-01A	CPT-1-41	AQ 11/29/11 12:05	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-02A	CPT-1-50	AQ 11/29/11 12:30	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-03A	CPT-2-34	AQ 11/29/11 09:15	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-04A	CPT-2-44	AQ 11/29/11 09:30	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-05A	CPT-3-42	AQ 11/29/11 13:40	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-06A	CPT-4-36	AQ 12/01/11 11:00	6 0 10	GAS-C	BTEX/OXY_C						
TRC11120613-07A	CPT-4-44	AQ 12/01/11 11:30	6 0 10	GAS-C	BTEX/OXY_C						

Comments: Security seals intact. Frozen Ice.

Signature	Print Name	Company	Date/Time
	Cheryl Gamble	Alpha Analytical, Inc.	12/6/11 16:32

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Company Name TRC Windsor  
 Attn: Accounts Payable  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ DOD Site \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # \_\_\_\_\_ of \_\_\_\_\_

Consultant / Client Name		Job #	Job Name		Analyses Required							Data Validation Level: III or IV	
TRC		188426/TA02	Quik Stop 56										
Address		Report Attention / Project Manager										EDD / EDF? YES _____ NO _____	
2300 Clayton Rd, Suite 610		Name: <u>Rachelle Clair</u>										Global ID # _____	
City, State, Zip		Email: <u>rclair@treresolutions.com</u>											
Concord, CA 94520		Phone: <u>(925) 688-2464</u> Mobile: <u>(925) 260-6722</u>											
Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	TPH-9 EPA 8260	BTEX	MTBE	DIP, ETBE, TAME, TBA	REMARKS
1205	11/29/11	AQ	33378	TRC1120613-01A	CPT-1-41	STD	N	6V	X	X	X	X	HCl Preserved
1230	11/29/11			FOR 02A	CPT-1-50								
0915	11/30/11			-03A	CPT-2-34								
0930	11/30/11			-04A	CPT-2-44								
1340	11/30/11			LAB 05A	CPT-3-42								
1100	12/1/11			06A	CPT-4-36								
1130	12/1/11	↓		-07A	CPT-4-44								
				USE									
				ONLY									

**ADDITIONAL INSTRUCTIONS:** cc results to Mike Sellwood (msellwood@treresolutions.com)

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Mike Sellwood Mike Sellwood

Relinquished by: (Signature/Affiliation) <u>Mike Sellwood</u>	Received by: (Signature/Affiliation)	Date: 12/5/11	Time: 1000
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) <u>[Signature]</u> Alpha	Date: 12/6/11	Time: 16:14
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\*: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.