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Alameda County  
Environmental Health

## **WELL INSTALLATION REPORT**

Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California

*Prepared for:*  
Quik Stop Markets, Inc.

*Prepared by:*  
**TRC**  
1590 Solano Way, Suite A  
Concord, California

August 2009



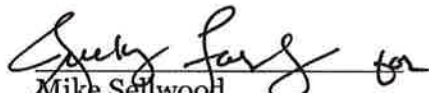
## WELL INSTALLATION REPORT


Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California

Project No. 164030

*Prepared for:*  
Quik Stop Markets, Inc.

*Prepared by:*

  
Mike Sellwood  
Senior Staff Geologist

  
Amy Wilson, P.E.  
Senior Project Engineer

  
Jonathan Scheiner  
Senior Project Manager



**TRC**  
1590 Solano Way, Suite A  
Concord, California  
(925) 688-1200

August 21, 2009

## TABLE OF CONTENTS

	<u>PAGE NO.</u>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 SITE DESCRIPTION .....</b>	<b>1</b>
<b>3.0 GEOLOGY AND HYDROGEOLOGY.....</b>	<b>1</b>
<b>4.0 SITE BACKGROUND .....</b>	<b>2</b>
<b>5.0 SITE ASSESSMENT ACTIVITIES .....</b>	<b>3</b>
<b>5.1 PRE-FIELD ACTIVITIES .....</b>	<b>3</b>
<b>5.2 MONITORING WELL INSTALLATIONS.....</b>	<b>4</b>
<b>5.3 MONITORING WELL DEVELOPMENT AND SURVEYING.....</b>	<b>4</b>
<b>5.4 SOIL ANALYTICAL RESULTS .....</b>	<b>5</b>
<b>6.0 WASTE DISPOSAL .....</b>	<b>5</b>
<b>7.0 CONCLUSIONS AND RECOMMENDATIONS .....</b>	<b>5</b>
<b>8.0 REFERENCES.....</b>	<b>6</b>

### LIST OF FIGURES

- 1 Vicinity Map
- 2 Site Plan

### LIST OF TABLES

- 1 Summary of Soil Analytical Data

### LIST OF APPENDICES

- A Drilling Permits
- B Soil Boring and Well Completion Logs
- C Well Development Field Sheets
- D Monitoring Well Survey Report
- E Laboratory Analytical Reports and Chain of Custody Records
- F Waste Manifests

## Monitoring Well Installation Report

Quik Stop #56, Oakland

August 21, 2009

Page 1

---

### 1.0 INTRODUCTION

Pursuant to the findings of the *Soil & Groundwater Investigation Report* (TRC, 2007) and the requirements of the Alameda County Health Care Services, Environmental Health Services Agency (ACEH), four groundwater monitoring wells have been installed at offsite locations from the subject Quik Stop Market No. 56, located at 3132 Beaumont Avenue in Oakland, California (Site) (Figure 1). The four wells, denoted MW-4, MW-5, MW-6 and MW-7 are intended to supplement the existing three onsite monitoring wells, and were installed in accordance with the *Groundwater Monitoring Well Installation Workplan*, approved by the ACEH on September 5, 2008 (TRC, 2008b). The expanded seven-well network will be monitored as part of the process to develop a Site Conceptual Model, required by the ACEH in a letter dated February 22, 2008.

The objective of the additional well installation is therefore to refine our understanding of the nature and extent of dissolved-phase hydrocarbon impacts in local shallow groundwater, and to assist in the development of the required Site Conceptual Model.

The scope of work included the following:

- Construction of four shallow offsite groundwater monitoring wells.
- Collection of soil samples for analysis at a state-certified laboratory.

### 2.0 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 (Figure 2). 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 Beaumont Avenue.

### 3.0 GEOLOGY AND HYDROGEOLOGY

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 (Alameda County Flood Control District [ACFCD], 1993). 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

## Monitoring Well Installation Report

Quik Stop #56, Oakland

August 21, 2009

Page 2

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types immediately beneath the Site consist of silty and sandy clays from the surface to a depth of approximately 13 fbg, silty sand or clayey silt from approximately 13 to 25 fbg, and silty clay from approximately 25 to 33 fbg.

The Site is located in the East Bay Plain Groundwater Basin, Oakland Upland and Alluvial Plain Subarea (Department of Water Resources [DWR], 1975; ACFCD, 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). The local depth to shallow, confined groundwater is between 20 and 21 fbg. Groundwater beneath the Site historically flows to the southwest with an average hydraulic gradient of approximately 0.10 ft/ft (TRC, 2008a).

### 4.0 SITE BACKGROUND

**September 1998:** Two 10,000-gallon steel gasoline underground storage tanks (USTs) were excavated, removed from the Site, and replaced with two 12,000-gallon double-walled, fiberglass USTs. During the upgrade 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), and 240 mg/kg TPH-g, 0.85 mg/kg ethylbenzene, and 1.3 mg/kg total xylenes in soil sample SW-2. Grab water samples were also collected from the bottom of the excavation and analyzed. Groundwater analysis resulted in maximum TPH-g and MTBE concentrations of 1,800 parts per billion (ppb) and 5,500 ppb respectively (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

## Monitoring Well Installation Report

Quik Stop #56, Oakland

August 21, 2009

Page 3

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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. Detected 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 31<sup>st</sup> 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 contaminants 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 micrograms per liter ( $\mu\text{g/L}$ ) (B-2). The maximum concentration of TPH-g was reported in the grab groundwater sample collected from B-2 at 410  $\mu\text{g/l}$  (TRC, 2007).

## 5.0 SITE ASSESSMENT ACTIVITIES

### 5.1 PRE-FIELD ACTIVITIES

Prior to commencing well installation activities, well permits were acquired from the Alameda County Public Works Department. Encroachment permits were acquired from the City of Oakland for the three well locations on the street (14<sup>th</sup> Avenue and East 31<sup>st</sup> Street) and an access agreement was negotiated for the well located on the private property on the northwest corner of Beaumont Avenue and East 31<sup>st</sup> Street. Copies of well installation permits are included in Appendix A. Underground Service Alert (USA) was notified two days prior to field activities to mark underground utilities at the property boundaries. In addition, a private utility

## Monitoring Well Installation Report

Quik Stop #56, Oakland

August 21, 2009

Page 4

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locator was used to confirm the absence of buried utilities at each boring/well location. Prior to drilling each boring, a pilot hole was cleared with a hand auger to approximately 5 fbg to verify the absence of buried utilities.

A site and job specific health and safety plan that promotes personnel safety and preparedness during the planned activities was developed and kept onsite during well installation activities.

### 5.2 MONITORING WELL INSTALLATIONS

Four groundwater monitoring wells (MW-4 through MW-7) were installed to depths ranging from 10 fbg to 25 fbg using a hollow-stem auger drill rig. Monitoring well locations are shown on Figure 2 and boring logs are presented in Appendix B. Soil samples were collected at five-foot depth intervals using a split-spoon sampler. Samples were collected for soil description in accordance with the Unified Soil Classification System (ASTM D-2487), field hydrocarbon vapor testing, and submitted for analysis at a state-certified laboratory.

The soil samples were screened in the field using a hand-held organic vapor meter equipped with a photo-ionization detector (PID). Two soil samples per boring were submitted to a state-certified laboratory for analysis, one of which was the soil sample collected from the capillary fringe from each boring. The selected soil samples were properly preserved and transported to the laboratory under appropriate chain-of-custody protocol. The soil samples were analyzed for the following constituents:

- Total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M
- TPH-g by EPA Method 8260B
- BTEX by EPA Method 8260B
- Fuel Oxygenates by EPA Method 8260B, including:
  - 1,2-dibromoethane (EDB)
  - 1,2-Dichloroethane (EDC)
  - MTBE
  - Tertiary amyl methyl ether (TAME)
  - Ethyl tertiary butyl ether (ETBE)
  - Di-isopropyl ether (DIPE)
  - Tertiary butyl alcohol (TBA), and
  - Ethanol (ETOH)



## **Monitoring Well Installation Report**

Quik Stop #56, Oakland

August 21, 2009

Page 5

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### **5.3 MONITORING WELL DEVELOPMENT AND SURVEYING**

The four new monitoring wells were developed on June 30, 2009 to improve hydraulic communication between the geologic formation and the well. Approximately 10 casing volumes of water were removed from each monitoring well during development. Well development field forms are presented in Appendix C. The four wells were surveyed by Virgil Chavez Land Surveying, a professional survey company on July 30, 2009. Each well was surveyed to determine the northing and easting and the top of casing elevation relative to the surrounding site wells and to the nearest benchmark. The monitoring well survey report is included in Appendix D.

### **5.4 SOIL ANALYTICAL RESULTS**

Soil samples were submitted to a California-certified laboratory for analysis. The samples were properly preserved and transported to the laboratory under appropriate chain-of-custody protocol. Analytical results of the soil samples are presented in Table 1. Copies of laboratory analytical reports and chain-of-custody records are included in Appendix E.

TPH-d and TPH-g were detected in soil at monitoring well MW-4 at maximum concentrations of 2.6 milligrams per kilogram (mg/kg) and 0.25 mg/kg, respectively. MTBE was detected in soil from wells MW-6 and MW-7 at maximum concentrations of 0.010 mg/kg and 0.0072 mg/kg, respectively. TBA was detected in soil from well MW-4 at concentrations of 0.49 mg/kg at 5.0 fbg and 0.018 mg/kg at 10.0 fbg.

### **6.0 WASTE DISPOSAL**

Soil cuttings and purge water generated during drilling and well development activities were placed in California Department of Transportation (DOT) approved 55-gallon drums and temporarily stored onsite pending profiling and disposal. On August 17, 2009, Filter Recycling Services, Inc. transported 8 drums of soil and 4 drums of purge water to the Forward Class II disposal facility in Manteca, California. Copies of the waste manifests are included in Appendix F.



## Monitoring Well Installation Report

Quik Stop #56, Oakland

August 21, 2009

Page 6

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### 7.0 CONCLUSIONS AND RECOMMENDATIONS

TRC recommends that wells MW-4 through MW-7 be incorporated into the quarterly groundwater monitoring well network, along with existing monitoring wells MW-1 through MW-3, commencing in Third Quarter 2009. Groundwater analytical results from the newly installed wells will be presented in quarterly groundwater monitoring reports submitted to the ACEH, and evaluation of the results incorporated into a Site Conceptual Model.

### 8.0 REFERENCES

ACFCD, 1993. *Geology Framework of the East Bay Plain Groundwater Basin, Alameda*

*County, California*; Alameda County Flood Control and Water Conservation District, August.

ACPWA, 1999. Frank Codd, Alameda County Public Works Agency, Personal Communication via Facsimile (map of groundwater levels in the City of Oakland area); November 16.

DWR, 1975. *Sea-Water Intrusion in California, Inventory of Coastal Ground Water Basins*; California Department of Water Resources, Bulletin No. 63-5; October.

Garlow Associates, 1998, *Underground Storage Tank Removal Report, Quik Stop Market No. 56, 3132 Beaumont Ave, Oakland, Ca*, November 25.

Godfrey, 1995. Andreas Godfrey, Alameda County Public Works-Water Resources Section, Personal Communication; May 22.

Gregg Drilling, 1999. Web Page, [www.greggdrilling.com/water\\_table\\_n.html](http://www.greggdrilling.com/water_table_n.html); November 10.

TRC, 2002. *Quarterly Progress Report, Fourth Quarter, 2002*, December 13, 2002.

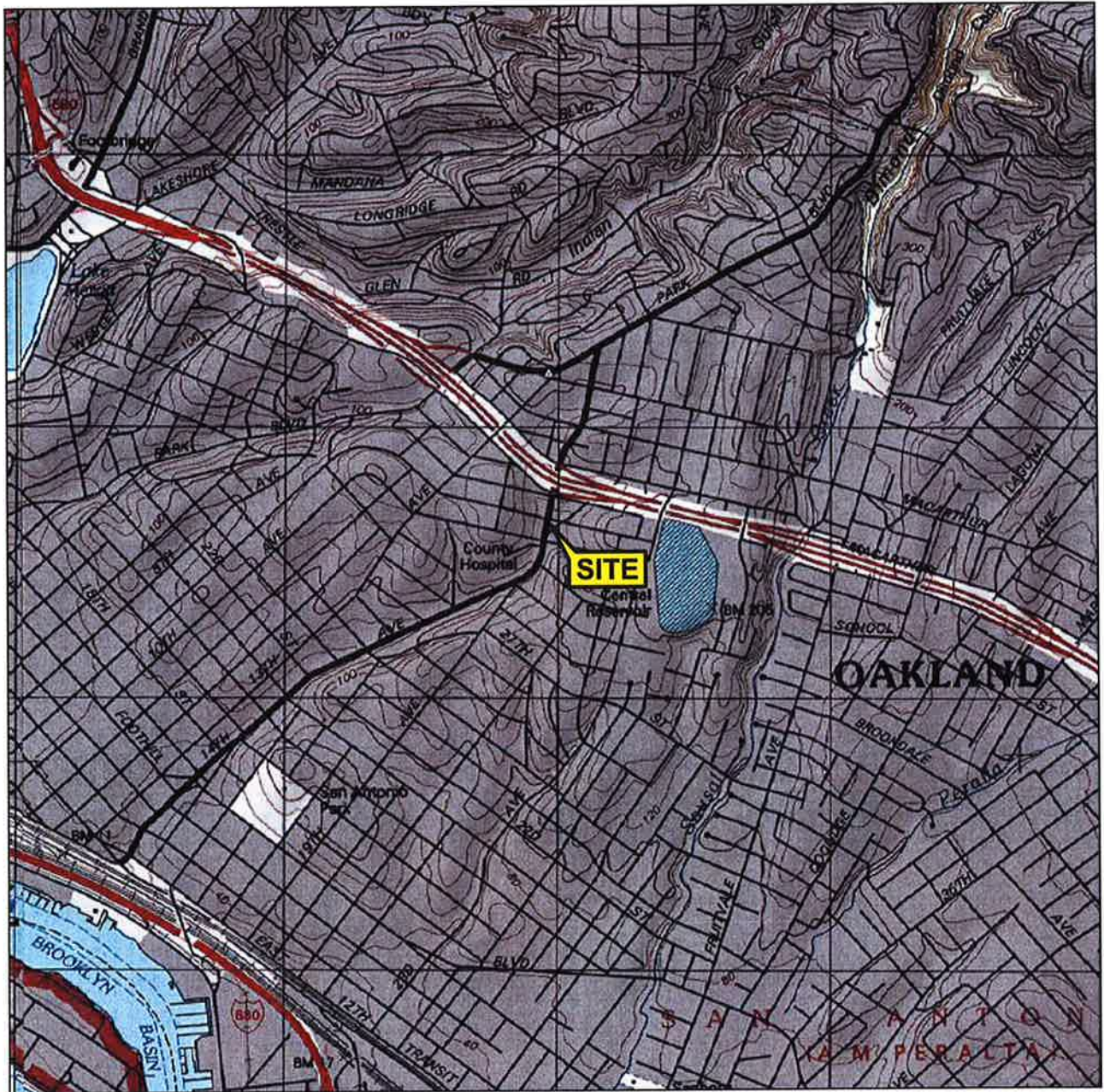
TRC, 2007. *Soil & Groundwater Investigation Report*, January 15.

TRC, 2008a, *Quarterly Groundwater Monitoring Report, First Quarter 2008*, April 30.

TRC, 2008b, *Groundwater Monitoring Well Installation Workplan*, May 30.



## FIGURES



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



SCALE 1 : 24,000



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

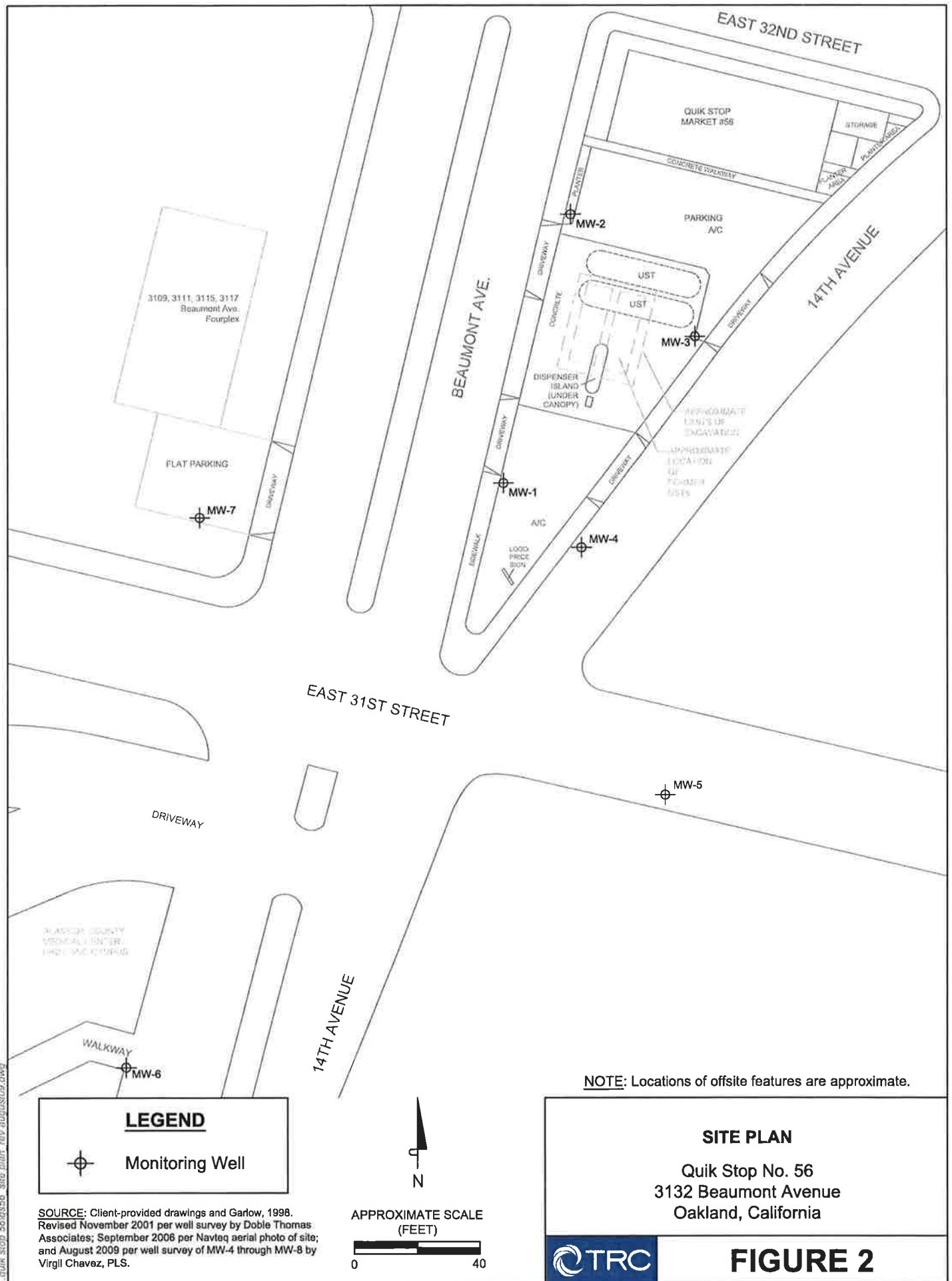
**VICINITY MAP**

Quik Stop No. 56  
 3132 Beaumont Avenue  
 Oakland, California



**FIGURE 1**





quik\_stop\_56igs56\_site\_plan\_rev\_8/28/09.dwg

## **TABLES**

**Table 1**  
**Summary of Soil Analytical Data**

Quik Stop No. 56  
3132 Beaumont Avenue  
Oakland, California

Boring ID	Date Sampled	Sample Depth (fbg)	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TBA
MW-4	5/27/2009	5.0	<b>0.25</b>	<b>2.1</b>	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0043	<b>0.49</b> <b>0.018</b>
	5/27/2009	10.0	< 0.24	<b>2.6</b>	< 0.0048	< 0.0048	< 0.0048	< 0.0095	< 0.0048	
MW-5	6/25/2009	5.0	< 0.22	< 0.99	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044	< 0.0088
	6/25/2009	10.0	< 0.24	< 0.99	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0049	< 0.0097
MW-6	5/26/2009	5.0	< 0.25	< 0.99	< 0.0050	< 0.0050	< 0.0050	< 0.0099	< 0.0050	< 0.0099
	5/26/2009	15.0	< 0.24	< 0.99	< 0.0049	< 0.0049	< 0.0049	< 0.0098	<b>0.010</b>	< 0.0098
MW-7	5/26/2009	5.0	< 0.24	< 0.99	< 0.0049	< 0.0049	< 0.0049	< 0.0097	<b>0.0072</b>	< 0.0097
	5/26/2009	20.0	< 0.24	< 1.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	< 0.0098

**Notes:**

- = Not Analyzed
- < = Indicates that the compound was not detected at or above the stated laboratory reporting limit
- TPH-g = Total petroleum hydrocarbons as gasoline (C5 - C12)
- TPH-d = Total petroleum hydrocarbons as diesel (C10 - C28)
- MTBE = Methyl tert-butyl ether
- TBA = Tert-Butyl Alcohol

**APPENDIX A**  
**DRILLING PERMITS**



# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 04/22/2009 By jamesy**

**Permit Numbers: W2009-0306 to W2009-0309**  
**Permits Valid from 05/26/2009 to 05/27/2009**

**Application Id:** 1240355854075  
**Site Location:** 3132 Beaumont Avenue, Oakland, CA  
**Project Start Date:** 05/26/2009  
**Assigned Inspector:** Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

**City of Project Site:**Oakland  
**Completion Date:**05/27/2009

**Applicant:** TRC - Mike Sellwood  
1590 Solano Wy. Ste A, Concord, CA 94520  
**Property Owner:** Quik Stop Markets Inc.  
4567 Enterprise St., Fremont, CA 94538  
**Client:** \*\* same as Property Owner \*\*

**Phone:** 925-260-3654  
**Phone:** 800-499-5045

	<b>Total Due:</b>	\$1380.00
<b>Receipt Number: WR2009-0148</b>	<b>Total Amount Paid:</b>	\$1380.00
<b>Payer Name : TRC</b>	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Construction-Monitoring-Monitoring - 4 Wells  
Driller: Cascade - Lic #: 717510 - Method: auger

**Work Total: \$1380.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0306	04/22/2009	08/24/2009	MW-4	8.00 in.	2.00 in.	25.00 ft	30.00 ft
W2009-0307	04/22/2009	08/24/2009	MW-5	8.00 in.	2.00 in.	25.00 ft	30.00 ft
W2009-0308	04/22/2009	08/24/2009	MW-6	8.00 in.	2.00 in.	25.00 ft	30.00 ft
W2009-0309	04/22/2009	08/24/2009	MW-7	8.00 in.	2.00 in.	25.00 ft	30.00 ft

**Specific Work Permit Conditions**

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
  5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
  8. Minimum surface seal thickness is two inches of cement grout placed by tremie
  9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
  10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
-

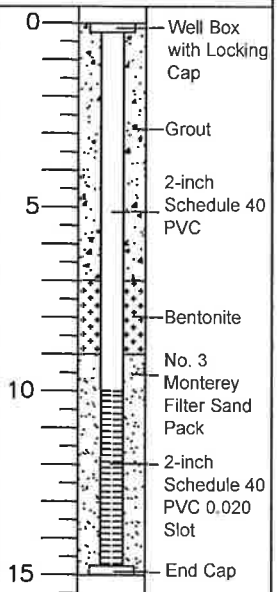
**APPENDIX B**  
**SOIL BORING AND WELL COMPLETION LOGS**

PROJECT NO.: 164030  
 LOCATION: Quik Stop #56  
 3132 Beaumont Avenue  
 Oakland, California

DATE DRILLED: 5/27/09  
 LOGGED BY: M. Sellwood  
 APPROVED BY: K. Woodburne, PG  
 DRILLING CO.: Cascade

NORTHING: 2118026.28  
 EASTING: 6062092.71  
 TOP OF CASING ELEVATION: 133.59  
 RIM ELEVATION: 133.99

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 8-inch Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: 2-inch Split Spoon			
3.3	-			0	Hand auger to 5 fbg. 6 inches asphalt. SILT-FILL (ML): Yellowish brown (10YR 5/6), 70% fines, 30% fine-grained sand, trace angular gravel, low plasticity, soft, dry.	Asphalt		0
4.4	7 14 17			5	- @ 5': color change to very dark gray (10YR 3/1), 95% fines, 5% fine-grained sand, high plasticity, moist, trace organic peat. - MW-4@5.0'	ML		5
1.0	9 19 30			10	- MW-4@10.0'			10
1.2	5 20 15			15	- @ 13': wet. - @ 15': color change to brown (10YR 5/3), 70% fines, 30% fine-grained sand.			15
				20				20
				25				25
				30				30
				35				35
				40				40



MONITORING WELL INSTALLATION LOG

PROJECT NO.: 164030	DATE DRILLED: 6/25/09	NORTHING: 2117947.06
LOCATION: Quik Stop #56	LOGGED BY: M. Sellwood	EASTING: 6062119.22
3132 Beaumont Avenue	APPROVED BY: K. Woodburne, PG	TOP OF CASING ELEVATION: 133.58
Oakland, California	DRILLING CO.: Cascade	RIM ELEVATION: 134.15

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 8-inch Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: 2-inch Split Spoon			
					TOTAL DEPTH: 10.0 feet			
					DEPTH TO WATER: 6.0 feet			
					DESCRIPTION			
1.5	-			0	Hand auger to 5 fbg. 6 inches asphalt.	Asphalt		0
					SILT (ML): Brown (10YR 4/3), 90% fines, 10% fine-grained sand, high plasticity, soft, dry.			Well Box with Locking Cap
1.1	3 2 3			5	- @ 5': color change to very dark brown (10YR 2/2), 70% fines, 30% fine-grained sand, low plasticity, wet.	ML		Grout
					- MW-5@5.0'			2-inch Schedule 40 PVC
								Bentonite
								No. 3 Monterey Filter Sand Pack
1.1	6 12 18			10	- @ 10': color change to yellowish brown (10YR 5/4), 90% fines, 10% fine-grained sand, high plasticity, very stiff, dry.			2-inch Schedule 40 PVC 0.020 Slot
					- MW-5@10.0'			End Cap
				15				
				20				
				25				
				30				
				35				
				40				



**MONITORING WELL INSTALLATION LOG**

PROJECT NO.: 164030  
 LOCATION: Quik Stop #56  
 3132 Beaumont Avenue  
 Oakland, California

DATE DRILLED: 5/26/09  
 LOGGED BY: M. Sellwood  
 APPROVED BY: K. Woodburne, PG  
 DRILLING CO.: Cascade

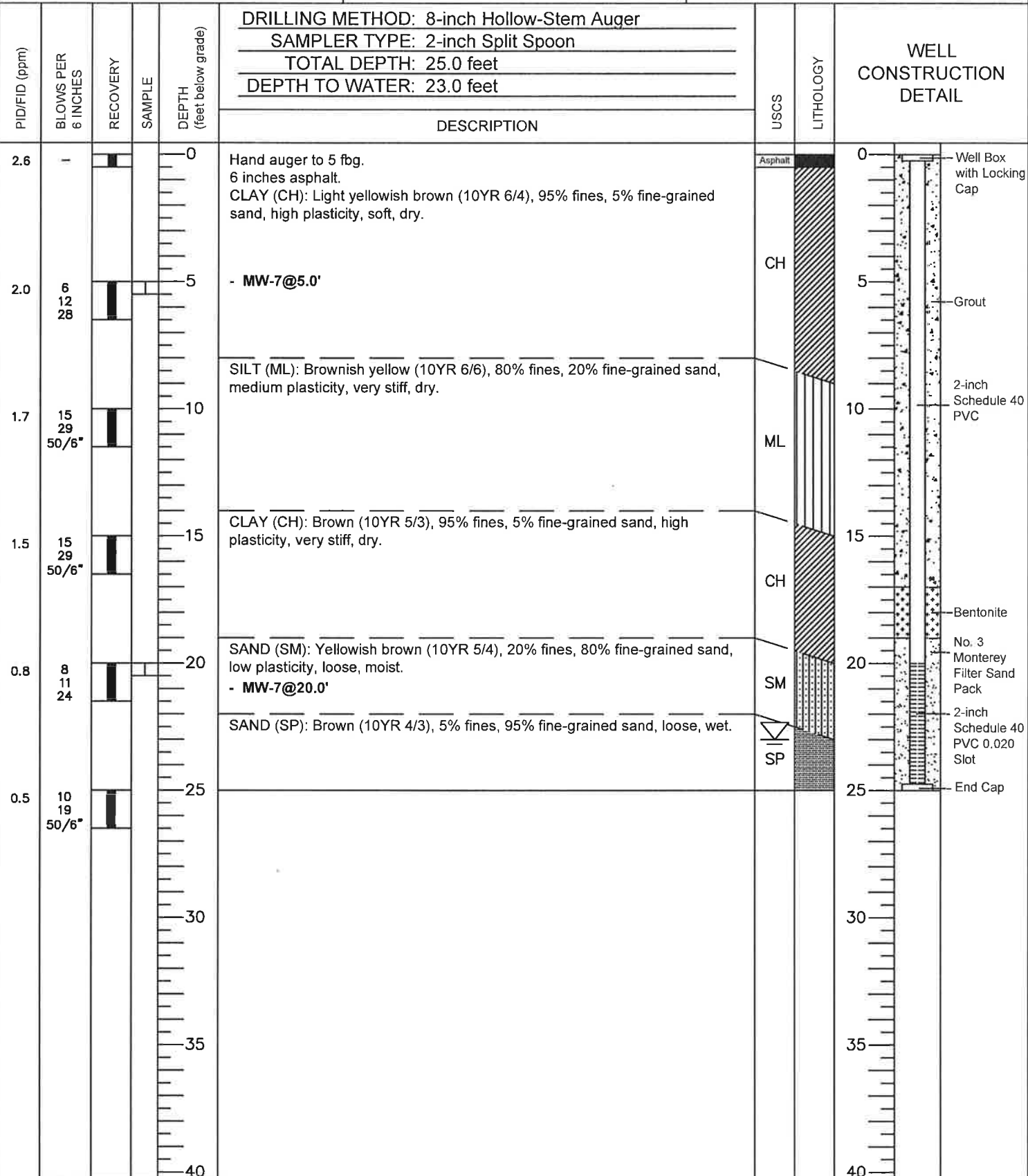
NORTHING: 2117859.89  
 EASTING: 6061947.48  
 TOP OF CASING ELEVATION: 128.83  
 RIM ELEVATION: 129.13

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 8-inch Hollow-Stem Auger	USCS	LITHOLOGY	WELL CONSTRUCTION DETAIL
					SAMPLER TYPE: 2-inch Split Spoon			
5.3	-			0	Hand auger to 5 fbg. 6 inches asphalt. SILT (ML): Dark gray (10YR 4/1), 90% fines, 10% fine-grained sand, medium plasticity, soft, dry.	Asphalt ML		0 Well Box with Locking Cap
2.8	6 15 24			5	CLAY (CL): Light brownish gray (10YR 6/2), 95% fines, 5% fine-grained sand, high plasticity, stiff, dry. - MW-6@5.0'	CL		5 Grout
0.8	17 28 50/5"			10	SILT (ML): Yellowish brown (10YR 5/4), 80% fines, 20% fine-grained sand, low plasticity, soft, dry.	ML		10 2-inch Schedule 40 PVC
1.2	16 36 50/6"			15	SAND (SP): Yellowish brown (10YR 5/4), 5% fines, 95% fine-grained sand, loose, wet. - MW-6@15.0'	SP		15 Bentonite No. 3 Monterey Filter Sand Pack
0	20 21 18			20	SAND (SM): Dark greenish gray (GLE Y 4/10Y), 15% fines, 85% fine-grained sand, low plasticity, loose, moist.	SM		20 2-inch Schedule 40 PVC 0.020 Slot End Cap
				25				25
				30				30
				35				35
				40				40



MONITORING WELL INSTALLATION LOG

PROJECT NO.: 164030	DATE DRILLED: 5/26/09	NORTHING: 2118035.86
LOCATION: Quik Stop #56	LOGGED BY: M. Sellwood	EASTING: 6061970.96
3132 Beaumont Avenue	APPROVED BY: K. Woodburne, PG	TOP OF CASING ELEVATION: 134.37
Oakland, California	DRILLING CO.: Cascade	RIM ELEVATION: 134.71



**MONITORING WELL INSTALLATION LOG**



**APPENDIX C**  
**WELL DEVELOPMENT FIELD SHEETS**

WELL NUMBER MW-4 PROJECT NUMBER 164030  
 DEPTH TO BOTTOM (DB): DATE 6/30/09  
 INITIAL 10.35 DATE(S) INSTALLED 6/25/09  
 FINAL 10.37 DATE(S) DEVELOPED 6/30/09  
 STATIC WATER LEVEL: PUMP TYPE \_\_\_\_\_  
 INITIAL 7.0 PUMP CAPACITY \_\_\_\_\_  
 FINAL 7.63 BAILER TYPE \_\_\_\_\_  
 MEASURING POINT TDC BAILER CAPACITY \_\_\_\_\_  
 FIELD PERSONNEL m. Sellwood

**WELL MEASUREMENT:**

2-INCH I.D. = 0.16 gal/ft.  
 4-INCH I.D. = 0.65 gal/ft.  
 6-INCH I.D. = 1.47 gal/ft.  
 8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 10.35  
 DEPTH TO FLUID (DTW) 7.0  
 HEIGHT OF WATER COLUMN (H) = DB-DTW 3.35  
 ONE CASING VOLUME (CV) = X gal/ft. x H 0.54

TIME	VOLUME REMOVED	pH	CONDUCTIVITY ms/cm	TEMP (°C)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
0934	0.50	5.5	1.32	20.2	219	very cloudy, fine sand
0935	1.0	5.63	1.24	19.9	165	
0936	1.5	5.98	1.24	19.9	687	
0937	2.0	6.08	1.23	19.9	284	very cloudy
0939	2.5	6.18	1.17	19.9	284	
0940	3.0	6.23	0.80	19.8	196	
0942	3.5	6.19	0.79	19.7	668	cloudy
0944	4.0	6.09	0.70	19.8	999 error	
0947	4.5	5.80	0.62	19.7	999 error	
0949	5.0	5.85	0.53	19.7	999 error	slightly cloudy

TOTAL VOLUME REMOVED 5.0 DRUMS \_\_\_\_\_

COMMENTS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WELL NUMBER MW-5

PROJECT NUMBER 164030

DEPTH TO BOTTOM (DB):

DATE 6/30/09

INITIAL 14.76

DATE(S) INSTALLED 5/27/09

FINAL 14.80

DATE(S) DEVELOPED 6/30/09

STATIC WATER LEVEL:

PUMP TYPE \_\_\_\_\_

INITIAL 5.23

PUMP CAPACITY \_\_\_\_\_

FINAL 6.48

BAILER TYPE \_\_\_\_\_

MEASURING POINT TOL

BAILER CAPACITY \_\_\_\_\_

FIELD PERSONNEL M. Sellwood

**WELL MEASUREMENT:**

2-INCH I.D. = 0.16 gal/ft.

4-INCH I.D. = 0.65 gal/ft.

6-INCH I.D. = 1.47 gal/ft.

8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 14.76

DEPTH TO FLUID (DTW) 5.23

HEIGHT OF WATER COLUMN (H) = DB-DTW 9.53

ONE CASING VOLUME (CV) = X gal/ft. x H 1.52

TIME	VOLUME REMOVED	pH	CONDUCTIVITY mS/cm	TEMP (°C)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1045	1.5	5.63	0.673	21.1	10	very cloudy, fine sand
1047	3.0	5.75	0.656	20.6	999 error	
1049	4.5	5.94	0.671	20.7	915	
1050	6.0	6.08	0.665	20.7	864	
1051	7.5	6.18	0.664	20.6	999	
1053	9.0	6.23	0.659	20.6	999	
1054	10.5	6.27	0.657	19.6	999	Slightly cloudy
1055	12.0	6.29	0.658	19.6	999	
1056	13.5	6.30	0.650	19.6	999	
1059	15.0	6.34	0.648	19.6	999	Slightly cloudy, faint hydrocarbon odor

TOTAL VOLUME REMOVED 15.0 DRUMS

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WELL NUMBER MW-6  
 DEPTH TO BOTTOM (DB):  
     INITIAL 19.75  
     FINAL 19.75  
 STATIC WATER LEVEL:  
     INITIAL 6.43  
     FINAL 6.43  
 MEASURING POINT Tbc  
 FIELD PERSONNEL m. Sellwood

PROJECT NUMBER 164030  
 DATE 6/30/09  
 DATE(S) INSTALLED 5/26/09  
 DATE(S) DEVELOPED 6/30/09  
 PUMP TYPE \_\_\_\_\_  
 PUMP CAPACITY \_\_\_\_\_  
 BAILER TYPE \_\_\_\_\_  
 BAILER CAPACITY \_\_\_\_\_

**WELL MEASUREMENT:**

2-INCH I.D. = 0.16 gal/ft.  
 4-INCH I.D. = 0.65 gal/ft.  
 6-INCH I.D. = 1.47 gal/ft.  
 8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 19.75  
 DEPTH TO FLUID (DTW) 6.43  
 HEIGHT OF WATER COLUMN (H) = DB-DTW 13.32  
 ONE CASING VOLUME (CV) = X gal/ft. x H 2.13

TIME	VOLUME REMOVED	pH	CONDUCTIVITY mS/cm	TEMP (°C)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS	
1:157	2	5.33	1.29	20.1	999 error	slightly cloudy, fine sand	
1203	4	6.20	1.29	19.6	↓		
1206	6	6.45	1.33	19.6			
1217	8	6.68	1.31	19.6			
1220	10	6.76	1.30	19.0			
1224	12	6.64	1.30	19.0			
1233	14	6.70	1.23	19.0			
1251	16	6.76	1.24	19.6			clear
1254	18	6.78	1.23	19.6			
1257	20	6.87	1.23	19.0			clear

TOTAL VOLUME REMOVED 20 DRUMS 1/2

COMMENTS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WELL NUMBER MW-7  
 DEPTH TO BOTTOM (DB):  
 INITIAL 24.82  
 FINAL 24.82  
 STATIC WATER LEVEL:  
 INITIAL 8.78  
 FINAL 10.0  
 MEASURING POINT TOC  
 FIELD PERSONNEL M. Sellwood

PROJECT NUMBER 164030  
 DATE 6/30/09  
 DATE(S) INSTALLED 5/26/09  
 DATE(S) DEVELOPED 6/30/09  
 PUMP TYPE \_\_\_\_\_  
 PUMP CAPACITY \_\_\_\_\_  
 BAILER TYPE \_\_\_\_\_  
 BAILER CAPACITY \_\_\_\_\_

WELL MEASUREMENT:

2-INCH I.D. = 0.16 gal/ft.  
 4-INCH I.D. = 0.65 gal/ft.  
 6-INCH I.D. = 1.47 gal/ft.  
 8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 24.82

DEPTH TO FLUID (DTW) 8.78

HEIGHT OF WATER COLUMN (H) = DB-DTW 16.04

ONE CASING VOLUME (CV) = X gal/ft. x H 2.56

TIME	VOLUME REMOVED	pH	CONDUCTIVITY ms/cm	TEMP (°C)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1415	3	6.00	3.28	22.7	10	slightly cloudy
1418	6	6.37	3.20	21.3	10	
1503	9	6.57	3.40	22.2	10	
1506	12	6.52	3.13	21.1	10	
1554	15	6.66	3.54	21.7	999	
1557	18	6.71	3.13	20.9	10	clear
1602	21	6.63	3.30	21.0	10	

TOTAL VOLUME REMOVED 21 DRUMS \_\_\_\_\_

COMMENTS Well dried out several times, required 15-20 minutes wait for recharge. Due to time constraints pumping was stopped @ 7 casing volumes.

**APPENDIX D**  
**MONITORING WELL SURVEY REPORT**

July 30, 2009  
Project No. 1675-08

Mike Sellwood  
TRC Solutions  
10680 White Rock Road  
Rancho Cordova, CA 95670

Subject: Monitoring Well Survey  
3132 Beaumont Ave.  
Oakland, CA

Dear Mike:

This is to confirm that we have proceeded at your request to survey the new monitoring wells located at the above referenced location. The survey was completed on July 30, 2009. The elevations for this survey are based on the data provided. Measurement locations were marked, at the approximate north side of top of box. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Vertical Datum (NAVD 88).

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
37.7990412	-122.2291595	2118026.28	6062092.71	133.99	RIM MW-4
				133.59	TOC MW-4
				134.15	RIM MW-5
37.7988250	-122.2290627	2117947.06	6062119.22	133.58	TOC MW-5
				129.13	RIM MW-6
37.7985770	-122.2296514	2117859.89	6061947.48	128.83	TOC MW-6
				134.71	RIM MW-7
37.7990613	-122.2295814	2118035.86	6061970.96	134.37	TOC MW-7

Sincerely,

---

Virgil D. Chavez, PLS 6323



**APPENDIX E**  
**LABORATORY ANALYTICAL REPORTS**  
**AND**  
**CHAIN-OF-CUSTODY RECORDS**

## ANALYTICAL REPORT

Job Number: 720-20216-1  
Job Description: Quik STOP #56

For:  
TRC Solutions, Inc.  
1590 Solano Way, Suite A  
Concord, CA 94520  
Attention: Ms. Rachelle Dunn



Approved for release.  
Dimple Sharma  
Project Manager I  
6/4/2009 5:45 PM

---

Dimple Sharma  
Project Manager I  
dimple.sharma@testamericainc.com  
06/04/2009

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-20216-1	MW-4@5.0				
Gasoline Range Organics (GRO)-C5-C12		0.25	0.22	mg/Kg	8260B/CA_LUFTMS
TBA		0.49	0.0086	mg/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		2.1	1.0	mg/Kg	8015B
720-20216-2	MW-4@10.0				
TBA		0.018	0.0095	mg/Kg	8260B/CA_LUFTMS
Diesel Range Organics [C10-C28]		2.6	1.0	mg/Kg	8015B
720-20216-4	MW-6@15.0				
MTBE		0.010	0.0049	mg/Kg	8260B/CA_LUFTMS
720-20216-5	MW-7@5.0				
MTBE		0.0072	0.0049	mg/Kg	8260B/CA_LUFTMS

## METHOD SUMMARY

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-20216-1	MW-4@5.0	Solid	05/27/2009 1105	05/28/2009 1750
720-20216-2	MW-4@10.0	Solid	05/27/2009 1110	05/28/2009 1750
720-20216-3	MW-6@5.0	Solid	05/26/2009 1140	05/28/2009 1750
720-20216-4	MW-6@15.0	Solid	05/26/2009 1205	05/28/2009 1750
720-20216-5	MW-7@5.0	Solid	05/26/2009 1515	05/28/2009 1750
720-20216-6	MW-7@20.0	Solid	05/26/2009 1540	05/28/2009 1750

## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Client Sample ID:** MW-4@5.0

Lab Sample ID: 720-20216-1

Date Sampled: 05/27/2009 1105

Client Matrix: Solid

Date Received: 05/28/2009 1750

### 8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA\_LUFTMS

Analysis Batch: 720-51535

Instrument ID: Varian 3900A

Preparation: 5030B

Prep Batch: 720-51538

Lab File ID: e:\data\2009\200906\06010

Dilution: 1.0

Initial Weight/Volume: 5.79 g

Date Analyzed: 06/01/2009 1654

Final Weight/Volume: 10 mL

Date Prepared: 06/01/2009 0900

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0043
Gasoline Range Organics (GRO)-C5-C12		0.25		0.22
TAME		ND		0.0043
Ethyl tert-butyl ether		ND		0.0043
Toluene		ND		0.0043
Xylenes, Total		ND		0.0086
Ethanol		ND		1.1
MTBE		ND		0.0043
EDB		ND		0.0043
DIPE		ND		0.0043
TBA		0.49		0.0086
1,2-Dichloroethane		ND		0.0043
Ethylbenzene		ND		0.0043
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		102		74 - 118
1,2-Dichloroethane-d4 (Surr)		114		54 - 134



## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-4@10.0

Lab Sample ID: 720-20216-2

Date Sampled: 05/27/2009 1110

Client Matrix: Solid

Date Received: 05/28/2009 1750

### 8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-51535	Instrument ID: Varian 3900A
Preparation:	5030B	Prep Batch: 720-51538	Lab File ID: e:\data\2009\200906\06010
Dilution:	1.0		Initial Weight/Volume: 5.24 g
Date Analyzed:	06/01/2009 1500		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2009 0900		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0048
Gasoline Range Organics (GRO)-C5-C12		ND		0.24
TAME		ND		0.0048
Ethyl tert-butyl ether		ND		0.0048
Toluene		ND		0.0048
Xylenes, Total		ND		0.0095
Ethanol		ND		1.2
MTBE		ND		0.0048
EDB		ND		0.0048
DIPE		ND		0.0048
TBA		0.018		0.0095
1,2-Dichloroethane		ND		0.0048
Ethylbenzene		ND		0.0048
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		102		74 - 118
1,2-Dichloroethane-d4 (Surr)		98		54 - 134

**Analytical Data**

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-6@5.0

Lab Sample ID: 720-20216-3

Date Sampled: 05/26/2009 1140

Client Matrix: Solid

Date Received: 05/28/2009 1750

**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS

Analysis Batch: 720-51535

Instrument ID: Varian 3900A

Preparation: 5030B

Prep Batch: 720-51538

Lab File ID: e:\data\2009\200906\06010

Dilution: 1.0

Initial Weight/Volume: 5.04 g

Date Analyzed: 06/01/2009 1523

Final Weight/Volume: 10 mL

Date Prepared: 06/01/2009 0900

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0050
Gasoline Range Organics (GRO)-C5-C12		ND		0.25
TAME		ND		0.0050
Ethyl tert-butyl ether		ND		0.0050
Toluene		ND		0.0050
Xylenes, Total		ND		0.0099
Ethanol		ND		1.2
MTBE		ND		0.0050
EDB		ND		0.0050
DIPE		ND		0.0050
TBA		ND		0.0099
1,2-Dichloroethane		ND		0.0050
Ethylbenzene		ND		0.0050
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		99		74 - 118
1,2-Dichloroethane-d4 (Surr)		107		54 - 134

## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Client Sample ID:** MW-6@15.0

Lab Sample ID: 720-20216-4

Date Sampled: 05/26/2009 1205

Client Matrix: Solid

Date Received: 05/28/2009 1750

### 8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-51535	Instrument ID: Varian 3900A
Preparation:	5030B	Prep Batch: 720-51538	Lab File ID: e:\data\2009\200906\06010
Dilution:	1.0		Initial Weight/Volume: 5.12 g
Date Analyzed:	06/01/2009 1546		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2009 0900		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Gasoline Range Organics (GRO)-C5-C12		ND		0.24
TAME		ND		0.0049
Ethyl tert-butyl ether		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0098
Ethanol		ND		1.2
MTBE		0.010		0.0049
EDB		ND		0.0049
DIPE		ND		0.0049
TBA		ND		0.0098
1,2-Dichloroethane		ND		0.0049
Ethylbenzene		ND		0.0049
<b>Surrogate</b>		<b>%Rec</b>	<b>Acceptance Limits</b>	
Toluene-d8 (Surr)		97	74 - 118	
1,2-Dichloroethane-d4 (Surr)		107	54 - 134	

## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-7@5.0

Lab Sample ID: 720-20216-5

Date Sampled: 05/26/2009 1515

Client Matrix: Solid

Date Received: 05/28/2009 1750

### 8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-51535	Instrument ID: Varian 3900A
Preparation:	5030B	Prep Batch: 720-51538	Lab File ID: e:\data\2009\200906\06010
Dilution:	1.0		Initial Weight/Volume: 5.14 g
Date Analyzed:	06/01/2009 1609		Final Weight/Volume: 10 mL
Date Prepared:	06/01/2009 0900		

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Gasoline Range Organics (GRO)-C5-C12		ND		0.24
TAME		ND		0.0049
Ethyl tert-butyl ether		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0097
Ethanol		ND		1.2
MTBE		0.0072		0.0049
EDB		ND		0.0049
DIPE		ND		0.0049
TBA		ND		0.0097
1,2-Dichloroethane		ND		0.0049
Ethylbenzene		ND		0.0049
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		101		74 - 118
1,2-Dichloroethane-d4 (Surr)		107		54 - 134

**Analytical Data**

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-7@20.0

Lab Sample ID: 720-20216-6

Date Sampled: 05/26/2009 1540

Client Matrix: Solid

Date Received: 05/28/2009 1750

**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-51535	Instrument ID:	Varian 3900A
Preparation:	5030B	Prep Batch: 720-51538	Lab File ID:	e:\data\2009\200906\06010
Dilution:	1.0		Initial Weight/Volume:	5.11 g
Date Analyzed:	06/01/2009 1631		Final Weight/Volume:	10 mL
Date Prepared:	06/01/2009 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Gasoline Range Organics (GRO)-C5-C12		ND		0.24
TAME		ND		0.0049
Ethyl tert-butyl ether		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0098
Ethanol		ND		1.2
MTBE		ND		0.0049
EDB		ND		0.0049
DIPE		ND		0.0049
TBA		ND		0.0098
1,2-Dichloroethane		ND		0.0049
Ethylbenzene		ND		0.0049
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		97		74 - 118
1,2-Dichloroethane-d4 (Surr)		102		54 - 134

Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-4@5.0

Lab Sample ID: 720-20216-1

Date Sampled: 05/27/2009 1105

Client Matrix: Solid

Date Received: 05/28/2009 1750

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8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.12 g

Date Analyzed: 06/03/2009 2131

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.1		1.0

---

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	91	40 - 119

---

### Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-4@10.0

Lab Sample ID: 720-20216-2

Date Sampled: 05/27/2009 1110

Client Matrix: Solid

Date Received: 05/28/2009 1750

---

#### 8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.00 g

Date Analyzed: 06/03/2009 2158

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.6		1.0
Surrogate		%Rec		Acceptance Limits
p-Terphenyl		87		40 - 119

Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-6@5.0

Lab Sample ID: 720-20216-3

Date Sampled: 05/26/2009 1140

Client Matrix: Solid

Date Received: 05/28/2009 1750

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.35 g

Date Analyzed: 06/03/2009 2225

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Surrogate		%Rec		Acceptance Limits
p-Terphenyl		92		40 - 119



## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-6@15.0

Lab Sample ID: 720-20216-4

Client Matrix: Solid

Date Sampled: 05/26/2009 1205

Date Received: 05/28/2009 1750

---

### 8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.34 g

Date Analyzed: 06/03/2009 2252

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99

---

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	85	40 - 119

---

Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-7@5.0

Lab Sample ID: 720-20216-5

Date Sampled: 05/26/2009 1515

Client Matrix: Solid

Date Received: 05/28/2009 1750

8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.39 g

Date Analyzed: 06/03/2009 2319

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Surrogate		%Rec		Acceptance Limits
p-Terphenyl		89		40 - 119

## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Client Sample ID: MW-7@20.0

Lab Sample ID: 720-20216-6

Client Matrix: Solid

Date Sampled: 05/26/2009 1540

Date Received: 05/28/2009 1750

---

### 8015B Diesel Range Organics (DRO) (GC)

Method: 8015B

Analysis Batch: 720-51616

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-51369

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.01 g

Date Analyzed: 06/03/2009 2346

Final Weight/Volume: 5 mL

Date Prepared: 06/02/2009 0919

Injection Volume:

Column ID: PRIMARY

---

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0

---

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	85	40 - 119

---

## DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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---

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-51535</b>					
LCS 720-51538/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-51538
LCSD 720-51538/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-51538
MB 720-51538/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-51538
720-20201-A-20-C MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-51538
720-20201-A-20-D MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-51538
720-20216-1	MW-4@5.0	T	Solid	8260B/CA_LUFT	720-51538
720-20216-2	MW-4@10.0	T	Solid	8260B/CA_LUFT	720-51538
720-20216-3	MW-6@5.0	T	Solid	8260B/CA_LUFT	720-51538
720-20216-4	MW-6@15.0	T	Solid	8260B/CA_LUFT	720-51538
720-20216-5	MW-7@5.0	T	Solid	8260B/CA_LUFT	720-51538
720-20216-6	MW-7@20.0	T	Solid	8260B/CA_LUFT	720-51538
<b>Prep Batch: 720-51538</b>					
LCS 720-51538/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-51538/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-51538/1-A	Method Blank	T	Solid	5030B	
720-20201-A-20-C MS	Matrix Spike	T	Solid	5030B	
720-20201-A-20-D MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-20216-1	MW-4@5.0	T	Solid	5030B	
720-20216-2	MW-4@10.0	T	Solid	5030B	
720-20216-3	MW-6@5.0	T	Solid	5030B	
720-20216-4	MW-6@15.0	T	Solid	5030B	
720-20216-5	MW-7@5.0	T	Solid	5030B	
720-20216-6	MW-7@20.0	T	Solid	5030B	

**Report Basis**

T = Total

Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-51369</b>					
LCS 720-51369/2-A	Lab Control Sample	T	Solid	3550B	
LCS D 720-51369/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-51369/1-A	Method Blank	T	Solid	3550B	
720-20216-1	MW-4@5.0	T	Solid	3550B	
720-20216-2	MW-4@10.0	T	Solid	3550B	
720-20216-3	MW-6@5.0	T	Solid	3550B	
720-20216-4	MW-6@15.0	T	Solid	3550B	
720-20216-5	MW-7@5.0	T	Solid	3550B	
720-20216-6	MW-7@20.0	T	Solid	3550B	
<b>Analysis Batch:720-51616</b>					
LCS 720-51369/2-A	Lab Control Sample	T	Solid	8015B	720-51369
LCS D 720-51369/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-51369
MB 720-51369/1-A	Method Blank	T	Solid	8015B	720-51369
720-20216-1	MW-4@5.0	T	Solid	8015B	720-51369
720-20216-2	MW-4@10.0	T	Solid	8015B	720-51369
720-20216-3	MW-6@5.0	T	Solid	8015B	720-51369
720-20216-4	MW-6@15.0	T	Solid	8015B	720-51369
720-20216-5	MW-7@5.0	T	Solid	8015B	720-51369
720-20216-6	MW-7@20.0	T	Solid	8015B	720-51369

Report Basis

T = Total

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Method Blank - Batch: 720-51538**

**Method: 8260B/CA\_LUFTMS**  
**Preparation: 5030B**

Lab Sample ID: MB 720-51538/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/01/2009 1027  
Date Prepared: 06/01/2009 0900

Analysis Batch: 720-51535  
Prep Batch: 720-51538  
Units: mg/Kg

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\060109\l  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
TAME	ND		0.0050
Ethyl tert-butyl ether	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Ethanol	ND		1.2
MTBE	ND		0.0050
EDB	ND		0.0050
DIPE	ND		0.0050
TBA	ND		0.010
1,2-Dichloroethane	ND		0.0050
Ethylbenzene	ND		0.0050
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	100	74 - 118	
1,2-Dichloroethane-d4 (Surr)	114	54 - 134	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-51538**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-51538/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/01/2009 1113  
Date Prepared: 06/01/2009 0900

Analysis Batch: 720-51535  
Prep Batch: 720-51538  
Units: mg/Kg

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\060109\I  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-51538/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/01/2009 1136  
Date Prepared: 06/01/2009 0900

Analysis Batch: 720-51535  
Prep Batch: 720-51538  
Units: mg/Kg

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\060109\I  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	81	88	65 - 121	8	20		
Gasoline Range Organics (GRO)-C5-C12	58	59	42 - 99	1	20		
Toluene	74	74	59 - 113	1	20		
MTBE	100	104	53 - 134	4	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	101		103		74 - 118		
1,2-Dichloroethane-d4 (Surr)	107		94		54 - 134		

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-51538**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-20201-A-20-C MS      Analysis Batch: 720-51535  
Client Matrix: Solid                              Prep Batch: 720-51538  
Dilution: 1.0  
Date Analyzed: 06/01/2009 1351  
Date Prepared: 06/01/2009 0900

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\060109\c  
Initial Weight/Volume: 5.14 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-20201-A-20-D MSD      Analysis Batch: 720-51535  
Client Matrix: Solid                              Prep Batch: 720-51538  
Dilution: 1.0  
Date Analyzed: 06/01/2009 1414  
Date Prepared: 06/01/2009 0900

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\060109\c  
Initial Weight/Volume: 5.42 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	78	83	56 - 132	1	20		
Gasoline Range Organics (GRO)-C5-C12	58	59	12 - 108	4	20		
Toluene	67	72	48 - 103	1	20		
MTBE	103	103	34 - 156	5	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	90		97	74 - 118			
1,2-Dichloroethane-d4 (Surr)	90		100	54 - 134			

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

**Method Blank - Batch: 720-51369**

**Method: 8015B  
Preparation: 3550B**

Lab Sample ID: MB 720-51369/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/03/2009 1919  
Date Prepared: 06/02/2009 0919

Analysis Batch: 720-51616  
Prep Batch: 720-51369  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.26 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Surrogate	% Rec		Acceptance Limits
p-Terphenyl	96		40 - 119

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-51369**

**Method: 8015B  
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-51369/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/03/2009 2038  
Date Prepared: 06/02/2009 0919

Analysis Batch: 720-51616  
Prep Batch: 720-51369  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.08 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-51369/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/03/2009 2105  
Date Prepared: 06/02/2009 0919

Analysis Batch: 720-51616  
Prep Batch: 720-51369  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.15 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	93	92	50 - 130	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	101	98			40 - 119		

Calculations are performed before rounding to avoid round-off errors in calculated results.

**720-20216**

**Report To** **Analysis Request**

Attn: <u>Rachelle Dunn</u>		TPH EPA - <input type="checkbox"/> 80158021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE P-Organic Aromatics BTEX EPA - <input type="checkbox"/> 802 <input type="checkbox"/> 8260B TERP EPA 8015M* <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Fuel Tests EPA 8260B <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> Fine Oxypenates <input checked="" type="checkbox"/> SOCA, EDB Chloral Purgeable Halocarbons (HVOCS) EPA 8021 by 8260B Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624 Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625 Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 PCBs PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 CAM17 Metals (EPA 6010/7470/7471) Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other Low Level Metals by EPA 200.8/6020 (ICP-MS) <input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O) <input type="checkbox"/> <input type="checkbox"/> Spec Curd. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS LJ Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>
Company: <u>TRC Concord</u>		
Address: <u>1570 Solano Way SR A, Concord</u>		
Phone: <u>(925) 683-1200</u> Email: <u>rdunn@trcsolutions.com</u>		
Bill To: <u>TRC</u>	Sampled By: <u>M. Sellwood</u>	
Attn:	Phone:	

Sample ID	Date	Time	Mix	Pres	err.	TPH	BTEX	TERP	Fuel	Purgeable	Volatile	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17	Metals	Low Level	W.E.T	Hexavalent	Spec Curd.	TSS	Anions	
MW-4 @ 5.0	5/27/09	1105	S	None				X	X																
MW-4 @ 10.0		1110																							
MW-6 @ 5.0	5/26/09	1140																							
MW-6 @ 15.0		1205																							
MW-7 @ 5.0		1515																							
MW-7 @ 20.0		1540																							
5																									
OF																									
26																									

<b>Project Info:</b>		<b>Sample Receipt</b>		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:		
Project Name: <u>Quick Stop #50</u>	# of Containers: <u>6</u>	Head Space:		Signature: <u>Mike Sellwood</u> Time: <u>1600</u>		Signature: <u>[Signature]</u> Time: <u>1750</u>		Signature: _____ Time: _____		
Project#: <u>1167030</u>	Temp: <u>4.1°C</u>	Conforms to record:		Printed Name: <u>M. Ke Sellwood</u> Date: <u>5/27/09</u>		Printed Name: _____ Date: <u>5/27/09</u>		Printed Name: _____ Date: _____		
PO#: <u>12990</u>				Company: <u>TRC</u>		Company: _____		Company: _____		
Credit Card#:				1) Received by:		2) Received by:		3) Received by:		
T A T	<u>5</u> Day	72h	48h	24h	Other:	Signature: <u>[Signature]</u> Time: <u>1430</u>		Signature: <u>[Signature]</u> Time: <u>1750</u>		
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EOF	Special Instructions / Comments:				Printed Name: <u>FULLER</u> Date: <u>5/27/09</u>		Printed Name: _____ Date: <u>5/28/09</u>		Printed Name: _____ Date: _____	
See Terms and Conditions on reverse		*TestAmerica SF reports 8015M from C <sub>2</sub> -C <sub>24</sub> (industry norm). Default for 8015B is C <sub>10</sub> -C <sub>26</sub>		Company: <u>TRC</u>		Company: <u>TASF</u>		Company: _____		

## Login Sample Receipt Check List

Client: TRC Solutions, Inc.

Job Number: 720-20216-1

Login Number: 20216

Creator: Hoang, Julie

List Number: 1

List Source: TestAmerica San Francisco

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## ANALYTICAL REPORT

Job Number: 720-20942-1

Job Description: Quik STOP #56

For:

TRC Solutions, Inc.  
1590 Solano Way, Suite A  
Concord, CA 94520

Attention: Ms. Rachelle Dunn



Approved for release,  
Dimple Sharma  
Project Manager I  
7/2/2009 11:12 AM

---

Dimple Sharma  
Project Manager I  
dimple.sharma@testamericainc.com  
07/02/2009

**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-J20942-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

**EXECUTIVE SUMMARY - Detections**

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Result / Qualifier</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Method</b>
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No Detections

## METHOD SUMMARY

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## SAMPLE SUMMARY

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-20942-1	MW-5@ 5.0	Solid	06/25/2009 0936	06/26/2009 1555
720-20942-2	MW-5@ 10.0	Solid	06/25/2009 0944	06/26/2009 1555

## Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

Client Sample ID: MW-5@ 5.0

Lab Sample ID: 720-20942-1

Date Sampled: 06/25/2009 0936

Client Matrix: Solid

Date Received: 06/26/2009 1555

### 8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA\_LUFTMS

Analysis Batch: 720-53095

Instrument ID: Varian 3900A

Preparation: 5030B

Prep Batch: 720-53096

Lab File ID: e:\data\2009\200906\06290

Dilution: 1.0

Initial Weight/Volume: 5.69 g

Date Analyzed: 06/29/2009 1233

Final Weight/Volume: 10 mL

Date Prepared: 06/29/2009 0800

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0044
Gasoline Range Organics (GRO)-C5-C12		ND		0.22
TAME		ND		0.0044
Ethyl tert-butyl ether		ND		0.0044
Toluene		ND		0.0044
Xylenes, Total		ND		0.0088
Ethanol		ND		1.1
MTBE		ND		0.0044
EDB		ND		0.0044
DIPE		ND		0.0044
TBA		ND		0.0088
1,2-Dichloroethane		ND		0.0044
Ethylbenzene		ND		0.0044
<hr/>				
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		101		74 - 118
1,2-Dichloroethane-d4 (Surr)		104		54 - 134

Analytical Data

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

Client Sample ID: MW-5@ 10.0

Lab Sample ID: 720-20942-2

Client Matrix: Solid

Date Sampled: 06/25/2009 0944

Date Received: 06/26/2009 1555

8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS

Method: 8260B/CA\_LUFTMS Analysis Batch: 720-53095 Instrument ID: Varian 3900A  
Preparation: 5030B Prep Batch: 720-53096 Lab File ID: e:\data\2009\200906\06290  
Dilution: 1.0 Initial Weight/Volume: 5.14 g  
Date Analyzed: 06/29/2009 1256 Final Weight/Volume: 10 mL  
Date Prepared: 06/29/2009 0800

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0049
Gasoline Range Organics (GRO)-C5-C12		ND		0.24
TAME		ND		0.0049
Ethyl tert-butyl ether		ND		0.0049
Toluene		ND		0.0049
Xylenes, Total		ND		0.0097
Ethanol		ND		1.2
MTBE		ND		0.0049
EDB		ND		0.0049
DIPE		ND		0.0049
TBA		ND		0.0097
1,2-Dichloroethane		ND		0.0049
Ethylbenzene		ND		0.0049
Surrogate		%Rec		Acceptance Limits
Toluene-d8 (Surr)		102		74 - 118
1,2-Dichloroethane-d4 (Surr)		114		54 - 134

**Analytical Data**

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

Client Sample ID: MW-5@ 5.0

Lab Sample ID: 720-20942-1

Date Sampled: 06/25/2009 0936

Client Matrix: Solid

Date Received: 06/26/2009 1555

**8015B Diesel Range Organics (DRO) (GC)**

Method: 8015B

Analysis Batch: 720-53174

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-53059

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.37 g

Date Analyzed: 06/29/2009 1925

Final Weight/Volume: 5 mL

Date Prepared: 06/29/2009 1102

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	84	40 - 119

**Analytical Data**

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

Client Sample ID: MW-5@ 10.0

Lab Sample ID: 720-20942-2

Client Matrix: Solid

Date Sampled: 06/25/2009 0944

Date Received: 06/26/2009 1555

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**8015B Diesel Range Organics (DRO) (GC)**

Method: 8015B

Analysis Batch: 720-53174

Instrument ID: HP DRO5

Preparation: 3550B

Prep Batch: 720-53059

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 30.18 g

Date Analyzed: 06/29/2009 1952

Final Weight/Volume: 5 mL

Date Prepared: 06/29/2009 1102

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	79	40 - 119

## DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-53095</b>					
LCS 720-53096/2-A	Lab Control Sample	T	Solid	8260B/CA_LUFT	720-53096
LCSD 720-53096/3-A	Lab Control Sample Duplicate	T	Solid	8260B/CA_LUFT	720-53096
MB 720-53096/1-A	Method Blank	T	Solid	8260B/CA_LUFT	720-53096
720-20942-1	MW-5@ 5.0	T	Solid	8260B/CA_LUFT	720-53096
720-20942-2	MW-5@ 10.0	T	Solid	8260B/CA_LUFT	720-53096
720-20942-2MS	Matrix Spike	T	Solid	8260B/CA_LUFT	720-53096
720-20942-2MSD	Matrix Spike Duplicate	T	Solid	8260B/CA_LUFT	720-53096
<b>Prep Batch: 720-53096</b>					
LCS 720-53096/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 720-53096/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 720-53096/1-A	Method Blank	T	Solid	5030B	
720-20942-1	MW-5@ 5.0	T	Solid	5030B	
720-20942-2	MW-5@ 10.0	T	Solid	5030B	
720-20942-2MS	Matrix Spike	T	Solid	5030B	
720-20942-2MSD	Matrix Spike Duplicate	T	Solid	5030B	
<b>Report Basis</b>					
T = Total					
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-53059</b>					
LCS 720-53059/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-53059/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-53059/1-A	Method Blank	T	Solid	3550B	
720-20942-1	MW-5@ 5.0	T	Solid	3550B	
720-20942-2	MW-5@ 10.0	T	Solid	3550B	
720-20951-A-5-B MS	Matrix Spike	T	Solid	3550B	
720-20951-A-5-C MSD	Matrix Spike Duplicate	T	Solid	3550B	
<b>Analysis Batch:720-53174</b>					
LCS 720-53059/2-A	Lab Control Sample	T	Solid	8015B	720-53059
LCSD 720-53059/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-53059
MB 720-53059/1-A	Method Blank	T	Solid	8015B	720-53059
720-20942-1	MW-5@ 5.0	T	Solid	8015B	720-53059
720-20942-2	MW-5@ 10.0	T	Solid	8015B	720-53059
720-20951-A-5-B MS	Matrix Spike	T	Solid	8015B	720-53059
720-20951-A-5-C MSD	Matrix Spike Duplicate	T	Solid	8015B	720-53059
<b>Report Basis</b>					
T = Total					

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Method Blank - Batch: 720-53096**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

Lab Sample ID: MB 720-53096/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Date Analyzed: 06/29/2009 0905  
 Date Prepared: 06/29/2009 0800

Analysis Batch: 720-53095  
 Prep Batch: 720-53096  
 Units: mg/Kg

Instrument ID: Varian 3900A  
 Lab File ID: e:\data\2009\200906\062909v  
 Initial Weight/Volume: 5.0 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25
TAME	ND		0.0050
Ethyl tert-butyl ether	ND		0.0050
Toluene	ND		0.0050
Xylenes, Total	ND		0.010
Ethanol	ND		1.2
MTBE	ND		0.0050
EDB	ND		0.0050
DIPE	ND		0.0050
TBA	ND		0.010
1,2-Dichloroethane	ND		0.0050
Ethylbenzene	ND		0.0050
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	102	74 - 118	
1,2-Dichloroethane-d4 (Surr)	109	54 - 134	

Calculations are performed before rounding to avoid round-off errors in calculated results.



## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-53096**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-53096/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 0928  
Date Prepared: 06/29/2009 0800

Analysis Batch: 720-53095  
Prep Batch: 720-53096  
Units: mg/Kg

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\062909\I  
Initial Weight/Volume: 5.0 g  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-53096/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 0951  
Date Prepared: 06/29/2009 0800

Analysis Batch: 720-53095  
Prep Batch: 720-53096  
Units: mg/Kg

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\062909\I  
Initial Weight/Volume: 5.0 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	90	97	65 - 130	8	20		
Gasoline Range Organics (GRO)-C5-C12	63	62	42 - 130	2	20		
Toluene	75	77	59 - 113	3	20		
MTBE	95	95	53 - 134	1	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	104		99		74 - 118		
1,2-Dichloroethane-d4 (Surr)	106		104		54 - 134		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-53096**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-20942-2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1319  
Date Prepared: 06/29/2009 0800

Analysis Batch: 720-53095  
Prep Batch: 720-53096

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\062909\1  
Initial Weight/Volume: 5.21 g  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-20942-2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1341  
Date Prepared: 06/29/2009 0800

Analysis Batch: 720-53095  
Prep Batch: 720-53096

Instrument ID: Varian 3900A  
Lab File ID: e:\data\2009\200906\062909\1  
Initial Weight/Volume: 5.70 g  
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	89	92	56 - 132	6	20		
Gasoline Range Organics (GRO)-C5-C12	60	61	12 - 108	7	20		
Toluene	75	76	48 - 103	8	20		
MTBE	112	107	34 - 156	13	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	101		103	74 - 118			
1,2-Dichloroethane-d4 (Surr)	64		115	54 - 134			

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Method Blank - Batch: 720-53059**

**Method: 8015B**  
**Preparation: 3550B**

Lab Sample ID: MB 720-53059/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1804  
Date Prepared: 06/29/2009 1102

Analysis Batch: 720-53174  
Prep Batch: 720-53059  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.16 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	76	40 - 119

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-53059**

**Method: 8015B**  
**Preparation: 3550B**

LCS Lab Sample ID: LCS 720-53059/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1831  
Date Prepared: 06/29/2009 1102

Analysis Batch: 720-53174  
Prep Batch: 720-53059  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.02 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-53059/3-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1858  
Date Prepared: 06/29/2009 1102

Analysis Batch: 720-53174  
Prep Batch: 720-53059  
Units: mg/Kg

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.05 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	69	69	50 - 130	0	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	66	65			40 - 119		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-53059**

**Method: 8015B  
Preparation: 3550B**

MS Lab Sample ID: 720-20951-A-5-B MS      Analysis Batch: 720-53174  
Client Matrix: Solid                              Prep Batch: 720-53059  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1925  
Date Prepared: 06/29/2009 1102

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.23 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

MSD Lab Sample ID: 720-20951-A-5-C MSD      Analysis Batch: 720-53174  
Client Matrix: Solid                              Prep Batch: 720-53059  
Dilution: 1.0  
Date Analyzed: 06/29/2009 1952  
Date Prepared: 06/29/2009 1102

Instrument ID: HP DRO5  
Lab File ID: N/A  
Initial Weight/Volume: 30.36 g  
Final Weight/Volume: 5 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	91	85	50 - 130	5	30		
Surrogate		MS % Rec				Acceptance Limits	
p-Terphenyl		49				40 - 119	

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Report To** **Analysis Request**

Attn: <u>Rachelle Dunn</u>		TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 902 <input type="checkbox"/> 8260B TEPH EPA 8015M* <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other Fuel Tests EPA 8260B <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> Five Organics <input checked="" type="checkbox"/> CA, ED, B, A Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624 Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625 Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310 CAM17 Metals (EPA 6010/7470/7471) Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: Low Level Metals by EPA 230.2/6020 (ICP-MS): <input type="checkbox"/> W.E.T (STLO) <input type="checkbox"/> TCLP Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O) Specific Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS ( ) Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>
Company: <u>TRC Concord</u>		
Address: <u>1590 Solano Way, Suite A Concord</u>		
Phone: <u>(925) 688-1200</u> Email: <u>r.dunn@trcsolutions.com</u>		
Bill To: <u>TRC</u>	Sampled By: <u>m. Sellwood</u>	
Attn:	Phone:	

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA	Purgeable Aromatics	TEPH EPA	Fuel Tests	Purgeable Halocarbons	Volatile Organics	Semivolatiles	Oil and Grease	Pesticides	PCBs	PNAs	CAM17 Metals	Metals	Low Level Metals	W.E.T	Hexavalent Chromium	Specific Cond.	TSS	Anions	
<u>MW-5 @ 5.0</u>	<u>6/24/09</u>	<u>0936</u>	<u>S</u>	<u>None</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
<u>MW-5 @ 10.0</u>	<u>6/25/09</u>	<u>0944</u>	<u>S</u>	<u>None</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																

Project Info.		Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: <u>Quick Stop # 56</u>	# of Containers: <u>2</u>	Project#: <u>164030</u>	Head Space:	Signature: <u>[Signature]</u>	Time: <u>1300</u>	Signature: <u>[Signature]</u>	Time: <u>1555</u>	Signature: _____	Time: _____
PO#: <u>12990</u>	Temp:	Printed Name: <u>Mike Sellwood</u>	Date: <u>6/25/09</u>	Printed Name: <u>FULTCHER</u>	Date: <u>6/26/09</u>	Printed Name: _____	Date: _____	Printed Name: _____	Date: _____
Credit Card#:	Conforms to record:	Company: <u>TRC</u>		Company: <u>TASF</u>		Company: _____		Company: _____	
T A T	<u>5</u> Day	72h	48h	24h	Other:	1) Received by: <u>[Signature]</u>	Time: <u>1005</u>	2) Received by: <u>[Signature]</u>	Time: <u>1555</u>
Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input checked="" type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID		Special Instructions / Comments:		Signature: <u>FULTCHER</u>	Time: <u>6/26/09</u>	Signature: <u>[Signature]</u>	Time: <u>6/26/09</u>	Signature: _____	Time: _____
See Terms and Conditions on reverse		*TestAmerica SF reports 8015M from C <sub>9</sub> -C <sub>24</sub> (Industry norm). Default for 8015B is C <sub>10</sub> -C <sub>28</sub>		Printed Name: <u>TASF</u>	Date: _____	Printed Name: <u>TASF</u>	Date: _____	Printed Name: _____	Date: _____
				Company: _____		Company: _____		Company: _____	

2.2°C

## Login Sample Receipt Check List

Client: TRC Solutions, Inc.

Job Number: 720-20942-1

**Login Number: 20942**

**List Source: TestAmerica San Francisco**

**Creator: Hoang, Julie**

**List Number: 1**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	

**APPENDIX F**  
**WASTE MANIFESTS**

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

909-721-2033

MM15781171

Generator's Site Address (if different than mailing address)

QUICK STOP # 56  
3132 BEAUMONT AVE  
OAKLAND, CA 94602

Generator's Phone: 925-260-3654

6. Transporter 1 Company Name

U.S. EPA ID Number

ENVIRONMENTAL LOGISTICS INC

CA8000172475

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

FILTER RECYCLING SERVICES INC  
180 W MONTE AVE  
RIALTO, CA 92316

CA0982444337

Facility's Phone: 800-693-4377

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Hazardous Waste

No.

Type

1. NON HAZARDOUS WASTE LIQUID

4

DM

200

C

2. NON HAZARDOUS WASTE SOLID

8

DM

2400

P

13. Special Handling Instructions and Additional Information

9B1) WATER # 4x55  
9B2) SOIL # 8x55

WEAR APPROPRIATE PPE

HW# 273114

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting and/or disposal of Hazardous Waste.

Generator's Officer's Printed/Typed Name

Signature

X Joseph Cebal

X [Signature]

Month Day Year  
8 17 09

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Gary Ford

[Signature]

Month Day Year  
8 17 09

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Receipt

Manifest Reference Number

17b. Alternate Facility (for Generator)

U.S. EPA ID Number

Facility's Phone

17c. Signature of Alternate Facility (for Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY