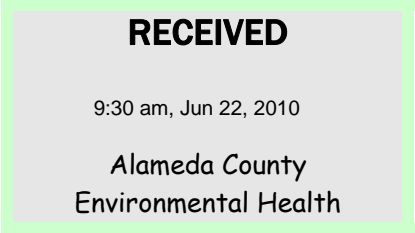


City of San Leandro  
Civic Center, 835 E. 14th Street  
San Leandro, California 94577



June 16, 2010

Mark Detterman, Hazardous Material Specialist, PG, CEG  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502



Dear Mr. Detterman,

Attached please find the Additional Soil & Groundwater Investigation report. The San Leandro Redevelopment Agency performed the work reported in the attached report On Behalf Of Diana Pagano, former owner of the property at 14901 East 14th Street and the primary responsible party for the site cleanup. It is in this capacity that the Agency makes the following statement:

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

Sincerely,

  
\_\_\_\_\_  
Stephen L. Hollister, Executive Director  
Redevelopment Agency of the City of San Leandro

Tony Santos, Mayor

City Council:

Michael J. Gregory;  
Diana M. Souza;

Jim Prola;  
Joyce R. Starosciak;

Ursula Reed;  
Bill Stephens



**ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION  
QUALITY TUNE UP  
14901 EAST 14TH STREET  
SAN LEANDRO, CALIFORNIA**

**PREPARED FOR:**  
The City of San Leandro  
835 East 14<sup>th</sup> Street  
San Leandro, California 94577

**PREPARED BY:**  
Ninyo & Moore  
Geotechnical and Environmental Sciences Consultants  
1956 Webster Street, Suite 400  
Oakland, California 94612

May 24, 2007  
Project No. 401007003

May 24, 2007  
Project No. 401007003

Mr. Bing Long, P.E. Associate Engineer  
City of San Leandro  
Engineering and Transportation Department  
835 East 14th Street  
San Leandro, California 94577

Subject: Additional Soil and Groundwater Investigation, Quality Tune Up, 14901 East 14<sup>th</sup> Street, San Leandro, California.

Reference: Alameda County Environmental Health Services, 2006, Letter to Ms. Diana Pagan, Fuel Leak Case No. RO0002925, Quality Tune Up, 14901 East 14<sup>th</sup> Street, San Leandro, CA: dated October 6.

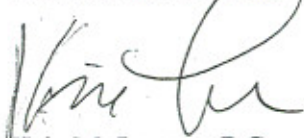
Dear Mr. Long:

Ninyo & Moore is pleased to present the results of the recent phase of subsurface site characterization. The purpose of the investigation was to evaluate the vertical and lateral extent of fuel hydrocarbon contamination migration in groundwater for the Quality Tune Up located at 14901 East 14<sup>th</sup> Street in the San Leandro, Alameda County, California. The evaluation was conducted in accordance with the Ninyo & Moore workplan dated January 22, 2007.

We appreciate the opportunity to be of service to the City of San Leandro on this project.

Sincerely,

**NINYO & MOORE**



Kris M. Larson, P.G.  
Sr. Project Environmental Geologist

KML/dhi



Distribution: (1) Addressee  
(1) Mr. Steven Plunkett, Alameda County Environmental Health Care Services

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Appendix A – Cone Penetrometer Test Data

Appendix B – Laboratory Analytical Reports

## **1. INTRODUCTION**

This report presents the results of the recent phase of subsurface site characterization. The purpose of the evaluation activity was to evaluate the vertical and lateral extent of fuel hydrocarbon contamination migration in groundwater. The evaluation was conducted in accordance with the Ninyo & Moore workplan dated January 22, 2007.

## **2. SITE INFORMATION AND BACKGROUND**

The site is located at 14901 East 14<sup>th</sup> Street, between 150<sup>th</sup> Avenue and Hesperian Boulevard in the City of San Leandro, California (Figure 1) and consists of an approximately 980 square meter (10,556 square feet), triangular-shaped parcel. The site contains one single-story structure encompassing approximately 84 square meters (900 square feet) occupied by Quality Tune Up, an automobile service and smog inspection facility.

The site was occupied by Riley's Gasoline Station from as early as 1948 until approximately 1950, when the present day structure was constructed and was occupied by Red's Flying A Service Gas Station (Ninyo & Moore, 2004). Other businesses that have operated the site as a gasoline and service station include Phillip's 66 (1974-1976), Electro Tune (1976 until sometime prior to 1981), and Quality Tune Up and Smog Check Center (1981-present).

Past environmental evaluation located four underground storage tanks (USTs), which were removed from the subject site in 1997. Prior and subsequent to the UST removal, several subsurface evaluation were conducted on site, included a Limited Phase II Environmental Site Assessment (ESA) conducted by Ninyo & Moore in June 2005 (Ninyo & Moore, 2005). Results of testing indicated concentrations of fuel hydrocarbons to be present in the subsurface, primarily in the vicinity of the former USTs and southwestern dispenser island, and to a lesser extent beneath the other site dispenser islands.

### **3. INVESTIGATIVE METHODOLOGIES**

The soil and groundwater evaluation involved several tasks designed to evaluate soil and groundwater conditions beneath areas in the site vicinity. These individual tasks include the following:

#### **3.1. Site Specific Health and Safety Plan**

A Ninyo & Moore Site Specific Health and Safety Plan (SSHSP) was prepared in advance of field activities to discuss potential health and safety issues that may arise during field activities. The SSHSP included a description of the site; project organization and coordination; physical and chemical hazard evaluation; communication procedures; personnel decontamination procedures; identification of a field team leader and field team members and emergency contacts, including a map and directions to the nearest hospital from the site. Field team members and personnel visiting the site during field activities were required to sign the signature page in the SSHSP after a tailgate meeting discussing the SSHSP.

#### **3.2. Utility Clearance**

The locations of borings were marked in the field prior to conducting a utility clearance. Underground Service Alert and Precision Locating of Brentwood, California, were contacted to locate underground utilities prior to field services.

#### **3.3. Cone Penetrometer Testing**

Cone penetrometer testing (CPT) was conducted to evaluate the subsurface stratigraphy in March 2007. Three CPT borings were installed in the central (CPT-01), southeastern (CPT-02), and southern (CPT-03) section of the site (Figure 2). The subsurface lithologic information obtained by the CPT data was used to assist in sampling water - bearing zones located between 13 and 18 feet below ground surface (bgs), and between 28 and 32 feet bgs in the groundwater borings sampled on and off site. The CPT equipment will be decontaminated using a steam cleaner between borings. Subsequent to the CPT evaluation, the borings

were tremmie grouted to the surface using Portland Cement. A copy of the CPT boring logs and description of the CPT sampling methodology is presented in Appendix A.

### **3.4. Soil and Groundwater Sampling**

Soil and groundwater samples were collected in April 2007. Discreet soil samples were collected from the soil and groundwater interface at Borings NM-10 through NM-14, and NM-17 and NM-18, and discrete groundwater samples were collected from NM-10 through NM-14, and NM-18. Samples could not be collected from Borings NM-15 and NM-16 due to adverse drilling constraints. Four of the borings (NM-12, NM-13, NM-17, and NM-18), were located either adjacent to or downgradient of the former USTs, and in the general downgradient flow direction of the current contaminant plume (toward the south). Two borings (MW-10 and MW-11) were located upgradient of the site (Figure 2).

The borings were advanced using a dual-tube sampler, and groundwater samples were collected from water - bearing zones located during the CPT evaluation. Water quality parameters, including pH, specific conductance, and temperature were field measured prior to the collection of groundwater samples. Groundwater samples were collected with a peristaltic pump and transferred into the appropriate containers. The groundwater sample containers were labeled with the project name, location, boring number, sample depth, sampling date/time, and sampler's initials. The sample containers were placed into an insulated cooler containing ice for transport to the analytical laboratory. Chain-of-custody documentation was completed and accompanied groundwater samples to the analytical laboratory.

Groundwater sampling equipment was decontaminated between sampling intervals with a steam cleaner. Soil cuttings and decontamination water were placed into 55-gallon containers which were left on-site pending receipt of laboratory analysis.

A representative of the Alameda County Environmental Health Services Agency was alerted prior to backfilling the borings; however, no one from the agency was available to oversee the grouting activities. The borings were backfilled to Alameda County Public Works Agency guidelines for water wells in General Ordinance Code, Chapter 6.88 Water Wells.

The top of the backfilled borings were completed to match surrounding materials and existing grade.

### **3.5. Laboratory Analyses**

Soil and groundwater samples obtained during the field activities were analyzed by Advance Technology Laboratory in Signal Hill, California, a state-certified analytical laboratory. Samples were analyzed for volatile organic compounds (VOCs) using Environmental Protection Agency (EPA) Method 8260B; and total petroleum hydrocarbons (TPH) compounds using EPA Method 8015M.

## **4. FINDINGS**

### **4.1. Sedimentology**

CPT data was used to evaluate subsurface stratigraphy and water bearing zones to approximately 50 feet bgs in Borings CPT 1 through CPT-3. The predominant subsurface stratigraphy consisted of sandy silts and clays to 50 feet bgs. Sand lenses were discovered in CPT-1 at approximately 36 feet bgs, and 47 feet bgs, and in CPT-2 at 49 feet bgs. Based on the CPT data, water-bearing zones were anticipated between 7 to 10 feet bgs, between 28 to 35 feet bgs, and between 47 to 50 feet bgs. During sampling activities, a first encountered water - bearing zone was located in a sandy silt lens between 13 to 18 feet bgs, and a mid-range water - bearing zone was located in a silty sand lens between 28 to 32 feet bgs. No groundwater samples were collected at the deeper water - bearing zone (50 feet bgs) due to drilling constraints.

### **4.2. Soil Sample Analytical Results**

Historic site sample data has indicated impacted soil was and is present generally in the capillary fringe on site. Therefore soil samples were collected in the capillary fringe during this subsurface sampling event. Gasoline range organic (GRO), diesel range organics (DRO), and motor oil range organics (ORO) compounds were detected in low concentrations. The



highest concentrations reported were in the capillary fringe vicinity of the former USTs (Boring NM-12), where GRO, DRO, and ORO were reported at 11 milligrams per kilogram (mg/kg), 15 mg/kg, and 12 mg/kg, respectively (Table 1).

VOCs reported included isopropylbenzene, methylene chloride, n-butylbenzene, n-propylbenzene, naphthalene, and sec-butylbenzene. The highest concentrations of these compounds included concentrations of sec-butylbenzene, n-propylbenzene, and n-butylbenzene reported at 81 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), 130  $\mu\text{g}/\text{kg}$ , and 220  $\mu\text{g}/\text{kg}$ , located in the capillary fringe near the former USTs (Table 2).

#### **4.2.1. Groundwater Sample Analytical Results**

TPH reported included GRO, DRO, and ORO in the first encountered water - bearing zone. Elevated concentrations of TPH compounds were reported in the vicinity of the former USTs, southeast dispenser island, and in off site and downgradient Boring NM-17, located on the southern side of 150<sup>th</sup> Avenue (Figure 2). GRO ranged 1,000 micrograms per liter ( $\mu\text{g}/\text{L}$ ) to 7,000  $\mu\text{g}/\text{L}$ , DRO ranged from 88  $\mu\text{g}/\text{L}$  to 32,000  $\mu\text{g}/\text{L}$ , and ORO ranged from 900  $\mu\text{g}/\text{L}$  to 8,300  $\mu\text{g}/\text{L}$  in these locations (Tables 3, Figure 2).

TPH compounds were not reported in samples collected in the second encountered water - bearing zone on site. DRO and ORO were reported in the second encountered water - bearing zone in downgradient Boring NM-17 at 100  $\mu\text{g}/\text{L}$  and 150  $\mu\text{g}/\text{L}$ , respectively (Table 3, Figure 2).

VOCs were reported in the first encountered water - bearing zone in the vicinity of the former USTs and southeastern dispenser island. The highest concentrations of VOCs reported included 39  $\mu\text{g}/\text{L}$  of sec-butylbenzene, 80  $\mu\text{g}/\text{L}$  of n-propylbenzene, and 82  $\mu\text{g}/\text{L}$  of n-butylbenzene. Minor concentrations of toluene (1.1  $\mu\text{g}/\text{L}$ ) and 1,2-dichloroethane (0.53  $\mu\text{g}/\text{L}$ ) were reported in the second encountered water - bearing zone from Boring NM-17.

## 5. SUMMARY AND CONCLUSIONS

Three CPT borings were evaluated in March 2007, and two water bearing zones were located and sampled during the April 2007 subsurface evaluation. A total of seven soil and groundwater borings were sampled during the subsurface evaluation. Soil samples were collected from the capillary zone and the first encountered water bearing zone (13 to 8 feet bgs) in the seven borings, and groundwater samples were collected from the second encountered water bearing zone (28 to 32 feet bgs), in four of the seven borings. The samples were analyzed for TPH and VOC compounds. Both the soil and groundwater laboratory analytical results were compared San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) where groundwater is a current or potential source of drinking water. No TPH or VOCs reported in soil samples exceeded Commercial Use ESLs, and VOCs reported in groundwater samples did not exceed ESLs.

Several groundwater samples exceeded TPH compound ESLs, including GRO, DRO, and ORO (Table 3, Figure 2). The highest TPH concentrations were detected in the first encountered water bearing zone in borings located adjacent and immediately downgradient (south) of the former USTs on site. The first encountered water bearing zone was also impacted in borings located up-gradient and downgradient of the former USTs. The first or second encountered water bearing zones were not impacted by TPH compounds in groundwater samples collected southwest and crossgradient of the former site USTs.

The second encountered water bearing zones sampled on site were not impacted by TPH compounds, however, DRO and ORO impacted groundwater was detected in the second water bearing zone in groundwater samples collected south and downgradient of the site.

Due to the lack of impacted groundwater in the second encountered water bearing zone on site, the vertical extent of TPH compounds may be confined to the first encountered water bearing zone. The first encountered water bearing zone in upgradient and off-site borings was impacted with TPH compounds, and may have been impacted by off-site sources. The first encountered water bearing zone in off site and downgradient borings were also impacted with TPH compounds, which may be related to the downgradient movement of a site source TPH plume. The

second encountered water bearing zone was not impacted on site, however, TPH compounds were detected in the second encountered water bearing zone in an off-site downgradient boring, where DRO and ORO were equal to or slightly above ESLs. The source of the impacted groundwater may also be related to the off-site migration of a site TPH plume, or from an off-site source. TPH compounds were not detected in groundwater samples collected from either water bearing zones southwest of the site, which may indicate that a TPH plume is not migrating toward the southwest, or crossgradient direction.

## **6. LIMITATIONS**

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of

California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

## 7. SELECTED REFERENCES

Alameda County Environmental Health Services, 2006, Letter to Ms. Diana Pagano regarding the subject Fuel Leak Case No. RO0002925, Quality Tune Up, 14901 East 14<sup>th</sup> Street, San Leandro, California, dated October 6.

Hageman Aguiar, Inc., 1993, Report of Limited Soil Investigation, dated October 26.

Hageman Aguiar, Inc., 1996, Proposed Workplan for Additional Subsurface Investigation, dated November 4.

Hageman Aguiar, Inc., 1997, Report of Additional Subsurface Investigation, dated January 6

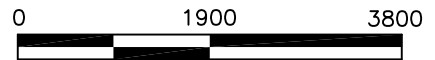
Hageman Aguiar, Inc., 1997, Final Tank Closure Report, dated October 13.

Ninyo & Moore, 2004, Initial Site Assessment, 14901 East 14<sup>th</sup> Street, dated September 27.

Ninyo & Moore, 2005, Limited Phase II Environmental Site Assessment, Quality Tune Up, 14901 East 14<sup>th</sup> Street, San Leandro, California, dated June 6.



REFERENCE: 2004 THOMAS GUIDE FOR ALAMEDA AND CONTRA COSTA COUNTIES, STREET GUIDE AND DIRECTORY.



APPROXIMATE SCALE IN FEET

401007-A4.DWG

***Ninyo & Moore***

**SITE LOCATION MAP**

QUALITY TUNE UP  
14901 E. 14th STREET  
SAN LEANDRO, CALIFORNIA

PROJECT NO. 401007003	DATE 5/2007	FIGURE 1
--------------------------	----------------	-------------

DEPTH(ft)	GRO	DRO	ORO
13	110	<50	76

**LEGEND**

- CPT-1 CPT BORING LOCATIONS 4/2007
- NM-10 GW BORING LOCATIONS 4/2007
- NM-6 APPROXIMATE BORING LOCATION GROUNDWATER SAMPLE, COLLECTED ON OCTOBER 24, 2004.
- NM-4 APPROXIMATE BORING LOCATION, GROUNDWATER AND SOIL SAMPLES ON OCTOBER 24, 2004.
- B-4 APPROXIMATE LOCATION OF EXPLORATORY BORING, 1993
- GP-2 APPROXIMATE LOCATION OF EXPLORATORY BORING, 1996
- NS NOT SAMPLED
- OVERHANG

SOURCE: HAGEMAN AGUIAR, INC., REPORT OF ADDITIONAL SUBSURFACE INVESTIGATION, JANUARY 1997.  
SAMPLE ANALYTICAL RESULTS μ MICROGRAMS PER LITER

DEPTH(ft)	GRO	DRO	ORO
18	<50	<50	<50
30	<50	<50	<50

DEPTH(ft)	GRO	DRO	ORO
18	110	<50	<50

DEPTH(ft)	GRO	DRO	ORO
17	7,000	32,000	8,300
28	<50	<50	<50

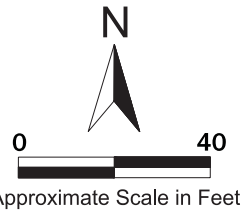
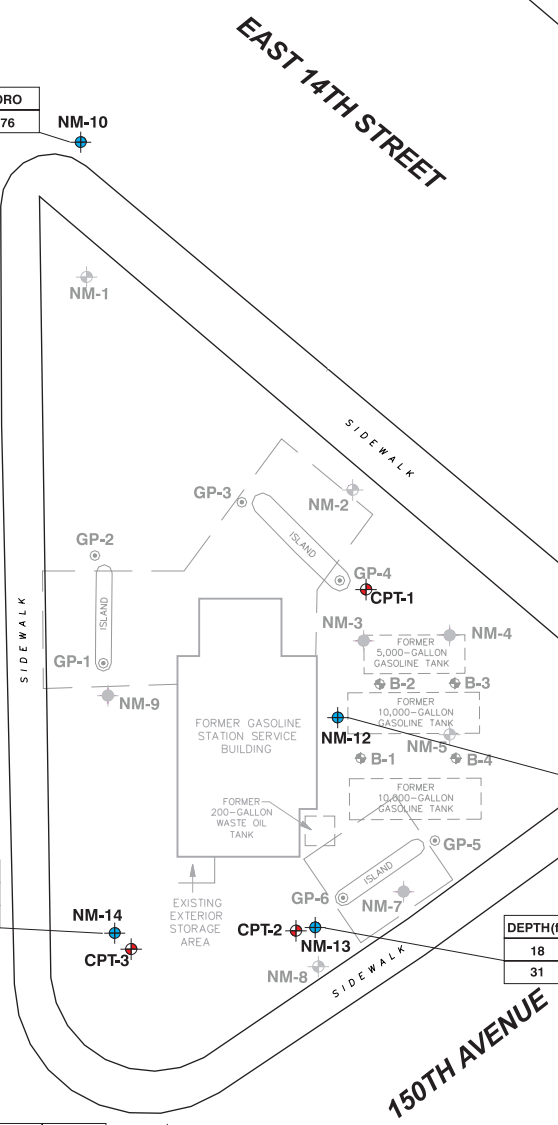
DEPTH(ft)	GRO	DRO	ORO
18	2,200	10,000	900
31	<50	<50	<50

DEPTH(ft)	GRO	DRO	ORO
18	<50	93	120

DEPTH(ft)	GRO	DRO	ORO
17	1,000	88	<50
32	<50	100	150

NM-15(NS)  
CPT-4

NM-16(NS)



NOTE: All location and boundaries are approximate.



**TPH CONSTITUENT CONCENTRATION MAP**  
**FIRST AND SECOND ENCOUNTERED WATER BEARING ZONES**

QUALITY TUNE UP  
 14901 EAST 14TH STREET  
 SAN LEANDRO, CALIFORNIA

PROJECT NO.  
401007003

DATE  
05/07

FIGURE  
2

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**TOTAL PETROLEUM HYDROCARBONS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

Sample ID	ANALYTE		
	GRO	DRO	ORO
NM-10-13	<1.0	<1.0	<1.0
NM-10-8	<1.0	<1.0	2.9
NM-11-13	<1.0	<1.0	<1.0
NM-11-18	<1.0	<1.0	<1.0
NM-12-12	<b>6.2</b>	<b>15</b>	<b>12</b>
NM-12-17	<b>11</b>	<b>3.2</b>	<b>1.5</b>
NM-13-13	<1.0	<1.0	<1.0
NM-13-18	<1.0	<1.0	<1.0
NM-14-13	<1.0	<1.0	<1.0
NM-14-18	<1.0	<b>1.4</b>	<b>2.9</b>
NM-17-12	<1.0	<1.0	<b>2.4</b>
NM-17-17	<1.0	<1.0	<1.0
NM-18-13	<1.0	<1.0	<b>2</b>
NM-18-18	<1.0	<b>1.3</b>	<b>2.7</b>
ESLs (mg/kg)	100	100	1,000

**Notes:**

GRO = Gasoline Range Organic compounds analyzed by EPA Method 8015B

Diesel Range Organic compounds analyzed by EPA Method 8015B

Motor Oil Range Organic compounds analyzed by EPA Method 8015B

mg/kg = milligrams per kilogram

< = below laboratory reporting limits

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Commercial / Industrial Use - Shallow Soils ( ≤ 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

Bold = Concentrations higher than laboratory reporting limits



**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

Analyte	Sample ID														ESLs(µg/kg)
	NM-10-8	NM-10-13	NM-11-13	NM-11-18	NM-12-12	NM-12-17	NM-13-13	NM-13-18	NM-14-13	NM-14-18	NM-17-12	NM-17-17	NM-18-13	NM-18-18	
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	24
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7,750
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	18
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	70
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	200
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,000
1,1-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,000
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	4
1,2-Dibromoethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,150
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	4
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	125
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7,300
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	125
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
4-Isopropyltoluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	45
Bromobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	40
Bromoform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2,150
Bromomethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	400
Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	35

**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

Analyte	Sample ID														ESLs(µg/kg)
	NM-10-8	NM-10-13	NM-11-13	NM-11-18	NM-12-12	NM-12-17	NM-13-13	NM-13-18	NM-14-13	NM-14-18	NM-17-12	NM-17-17	NM-18-13	NM-18-18	
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,500
Chloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	850
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,900
Chloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	200
cis-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Dibromomethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	54
Dichlorodifluoromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Ethyl Tert-butyl ether	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3,275
Hexachlorobutadiene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,000
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	<b>6.7</b>	<b>18</b>	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
m,p-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2,260
Methylene chloride	<5.0	<5.0	<5.0	<5.0	<b>5.8</b>	<5.0	<5.0	<b>5.5</b>	<b>6.2</b>	<5.0	<5.0	<5.0	<5.0	<5.0	77
MTBE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	23
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<b>130</b>	<b>220</b>	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
n-Propylbenzene	<5.0	<5.0	<5.0	<5.0	<b>37</b>	<b>130</b>	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Naphthalene	<5.0	<5.0	<5.0	<5.0	<b>18</b>	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,500
o-Xylene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2,260
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<b>44</b>	<b>81</b>	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Styrene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,500
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	250
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2,850
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	450
Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Vinyl chloride	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20

-- = Not available

VOCs analyzed using EPA Method 8260B

µg/kg = micrograms per kilogram

< = below laboratory reporting limit

**Bold** = Concentrations higher than laboratory reporting limits

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Commercial / Industrial Use - Shallow Soils (≤ 3 mbgs)

Where Groundwater is a Current or Potential Source of Drinking Water (February 2005)

**TABLE 3**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
**TOTAL PWTROLEUM HYDROCARBONS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

Sample ID	ANALYTE		
	GRO	DRO	ORO
GW-10-13	110	<50	76
GW-11-18	110	<50	<50
GW-12-17	<b>7,000</b>	<b>32,000</b>	<b>8,300</b>
GW-12-28	<50	<50	<50
GW-13-18	<b>2,200</b>	<b>10,000</b>	<b>900</b>
GW-13-31	<50	<50	<50
GW-14-18	<50	<50	<50
GW-14-30	<50	<50	<50
GW-17-17	<b>1,000</b>	<b>88</b>	<50
GW-17-32	<50	<b>100</b>	<b>150</b>
GW-18-18	<50	<b>93</b>	<b>120</b>
ESLs (µg/L)	100	100	100

**Notes:**

GRO = Gasoline Range Organic compounds analyzed by EPA Method 8015B  
 Diesel Range Organic compounds analyzed by EPA Method 8015B  
 Motor Oil Range Organic compounds analyzed by EPA Method 8015B  
 µg/L = micrograms per liter  
 < = below laboratory reporting limits  
 Bold = Concentrations higher than laboratory reporting limits  
 Shaded cells indicate concentrations reported greater than PRGs and/or ESLs  
 ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Commercial / Industrial Use - Shallow Soils ( ≤ 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

**TABLE 4**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

ANALYTE	SAMPLE ID											ESL (µg/L)
	GW-10-13	GW-11-18	GW-12-17	GW-12-28	GW-13-18	GW-13-31	GW-14-18	GW-14-30	GW-17-17	GW-17-32	GW-18-18	
1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	62
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	6
1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	25
1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,2-Dibromo-3-chloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0
1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0
1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>0.53</b>	<0.50	1
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
1,3,5-Trimethylbenzene	<0.50	<0.50	<b>15</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	65
1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5
2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
Bromobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	100
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	100
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10
Carbon tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	25
Chloroethane	<0.50	<0.50	<0.50	<0.50	<b>0.53</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12

**TABLE 4**  
**GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**  
**QUALITY TUNE UP**  
**14901 EAST 14TH STREET**  
**SAN LEANDRO, CALIFORNIA**

ANALYTE	SAMPLE ID											ESL (µg/L)	
	GW-10-13	GW-11-18	GW-12-17	GW-12-28	GW-13-18	GW-13-31	GW-14-18	GW-14-30	GW-17-17	GW-17-32	GW-18-18		
Chloroform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	70	
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1	
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Dibromochloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	100	
Dibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	30	
Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0	
Isopropylbenzene	<0.50	<0.50	<b>15</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
m,p-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	20	
Methylene chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5	
MTBE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5	
n-Butylbenzene	<0.50	<0.50	<b>82</b>	<0.50	<b>2.4</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
n-Propylbenzene	<0.50	<0.50	<b>80</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Naphthalene	<0.50	<0.50	<b>15</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	20	
sec-Butylbenzene	<0.50	<0.50	<b>39</b>	<0.50	<b>3.3</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Styrene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	
tert-Butylbenzene	<0.50	<0.50	<b>0.78</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Tetrachloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5	
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<b>1.1</b>	<0.50	40
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Trichloroethene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5	
Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1	

**Notes:**

-- = Not available

VOCs analyzed using EPA Method 8260B

µg/L = micrograms per kilogram

< = below laboratory reporting limit

**Bold** = Concentrations higher than laboratory reporting

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Commercial / Industrial Use -

Shallow Soils ( ≤ 3 mbgs) Where Groundwater is a Current or Potential Source of Drinking Water (February 2005)

**APPENDIX A**  
**CONE PENETROMETER TEST DATA**



GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

March 26, 2007

Ninyo & Moore
Attn: Kris Larson
1956 Webster St., Suite 400
Oakland, California 94612

Subject: CPT Site Investigation
Quality Tune Up
San Leandro, California
GREGG Project Number: 07-090MA

Dear Mr. Larson:

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

Table with 4 columns: Item Number, Test Name, Abbreviation, and Status (checkbox). Rows include Cone Penetration Tests (checked), Pore Pressure Dissipation Tests (checked), Seismic Cone Penetration Tests, Resistivity Cone Penetration Tests, UVIF Cone Penetration Tests, Groundwater Sampling, Soil Sampling, Vapor Sampling, Vane Shear Testing, and SPT Energy Calibration.

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

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager



GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	3/23/07	50	-	-	47.9
CPT-02	3/23/07	50	-	-	49.4
CPT-03	3/23/07	50	-	-	-





## Bibliography

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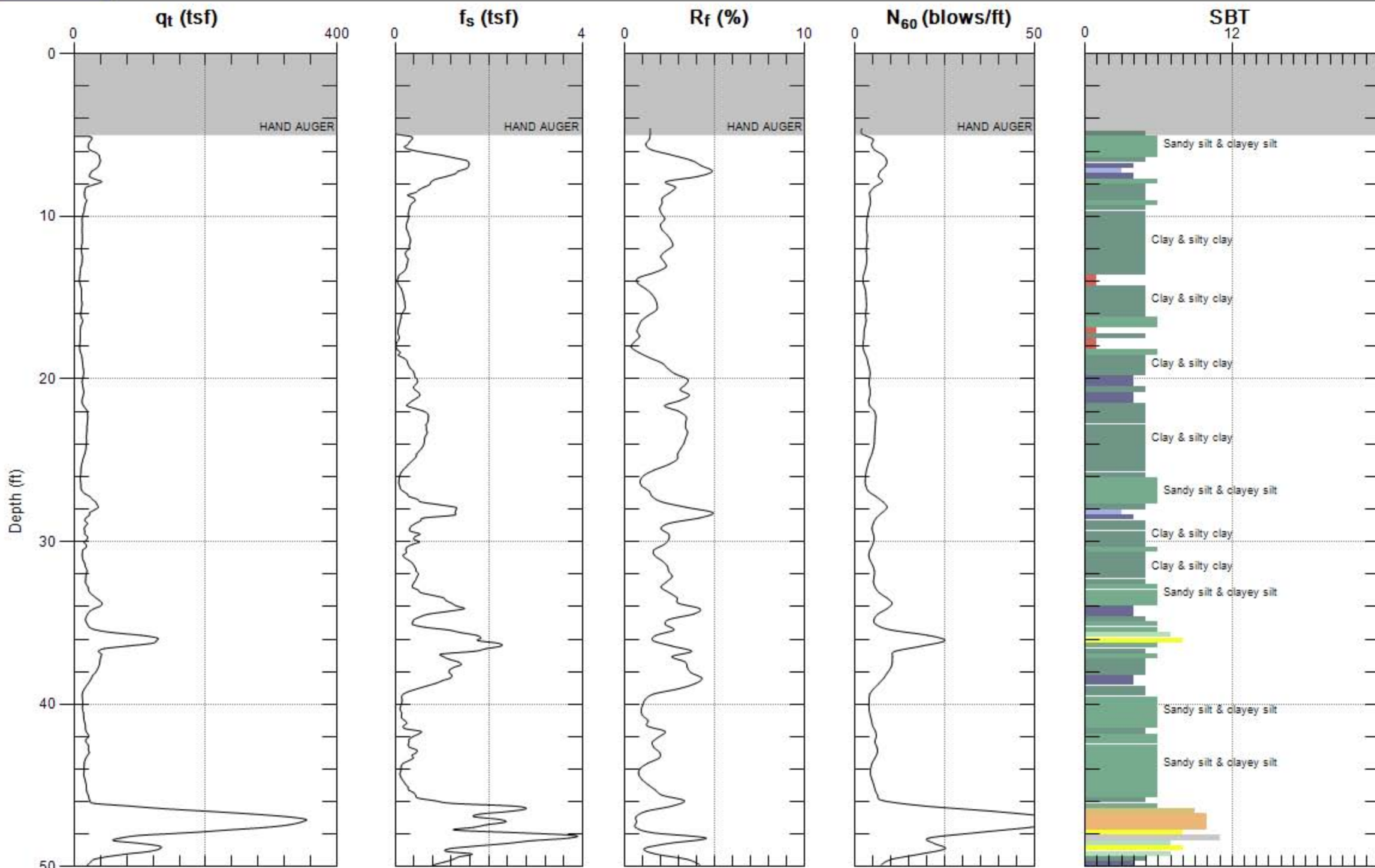
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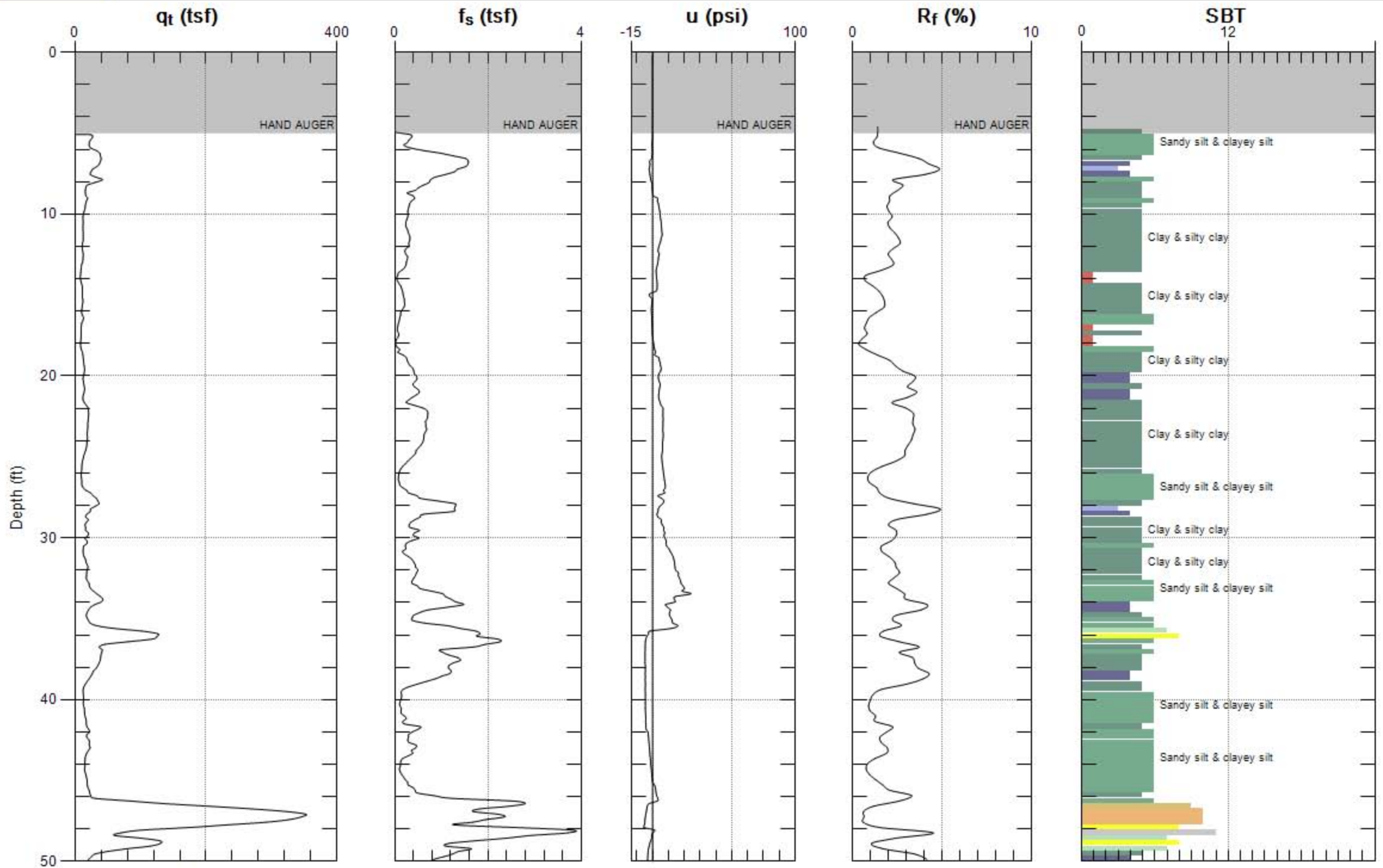
Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from  
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Copies of ASTM Standards are available through [www.astm.org](http://www.astm.org)



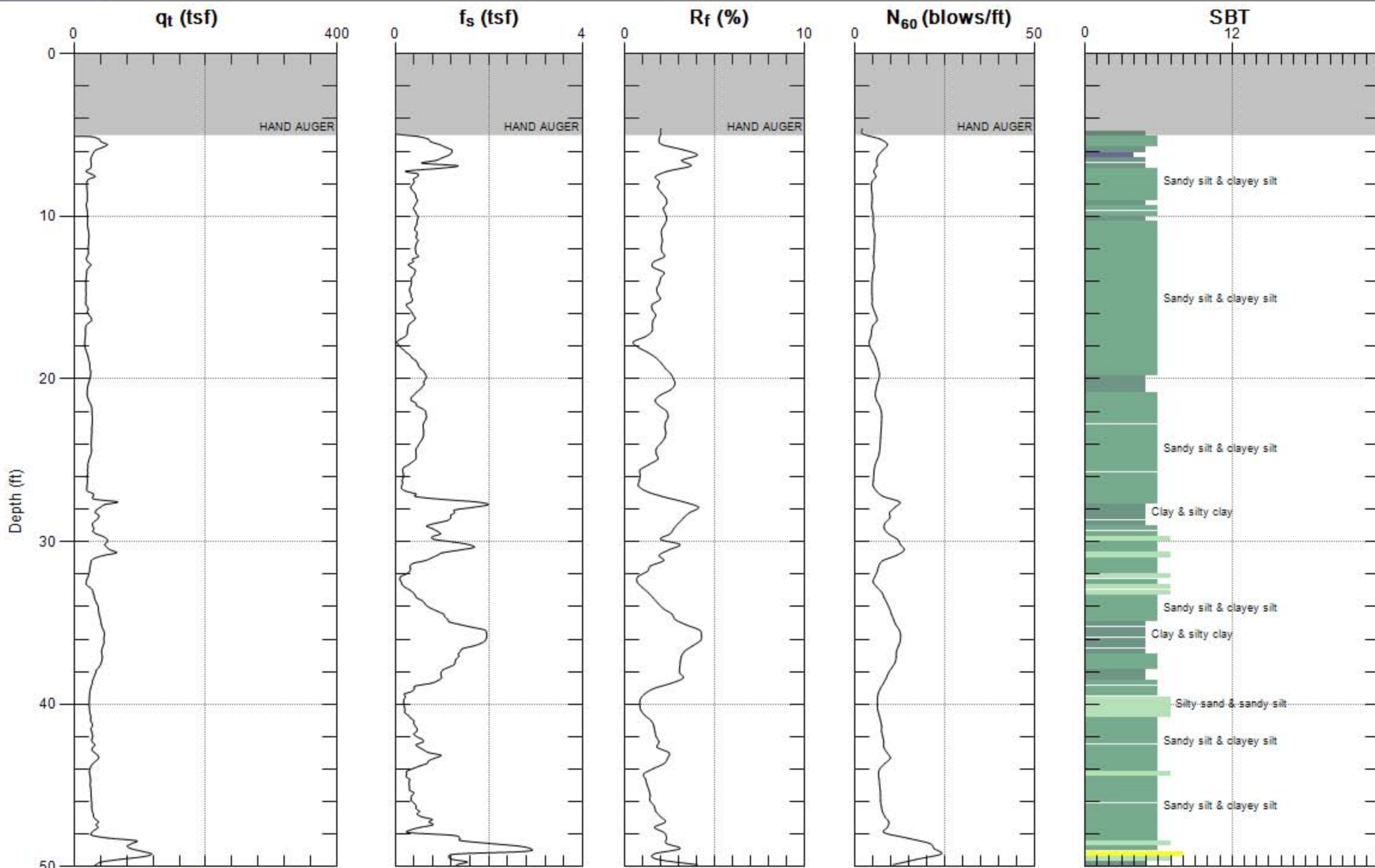
Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



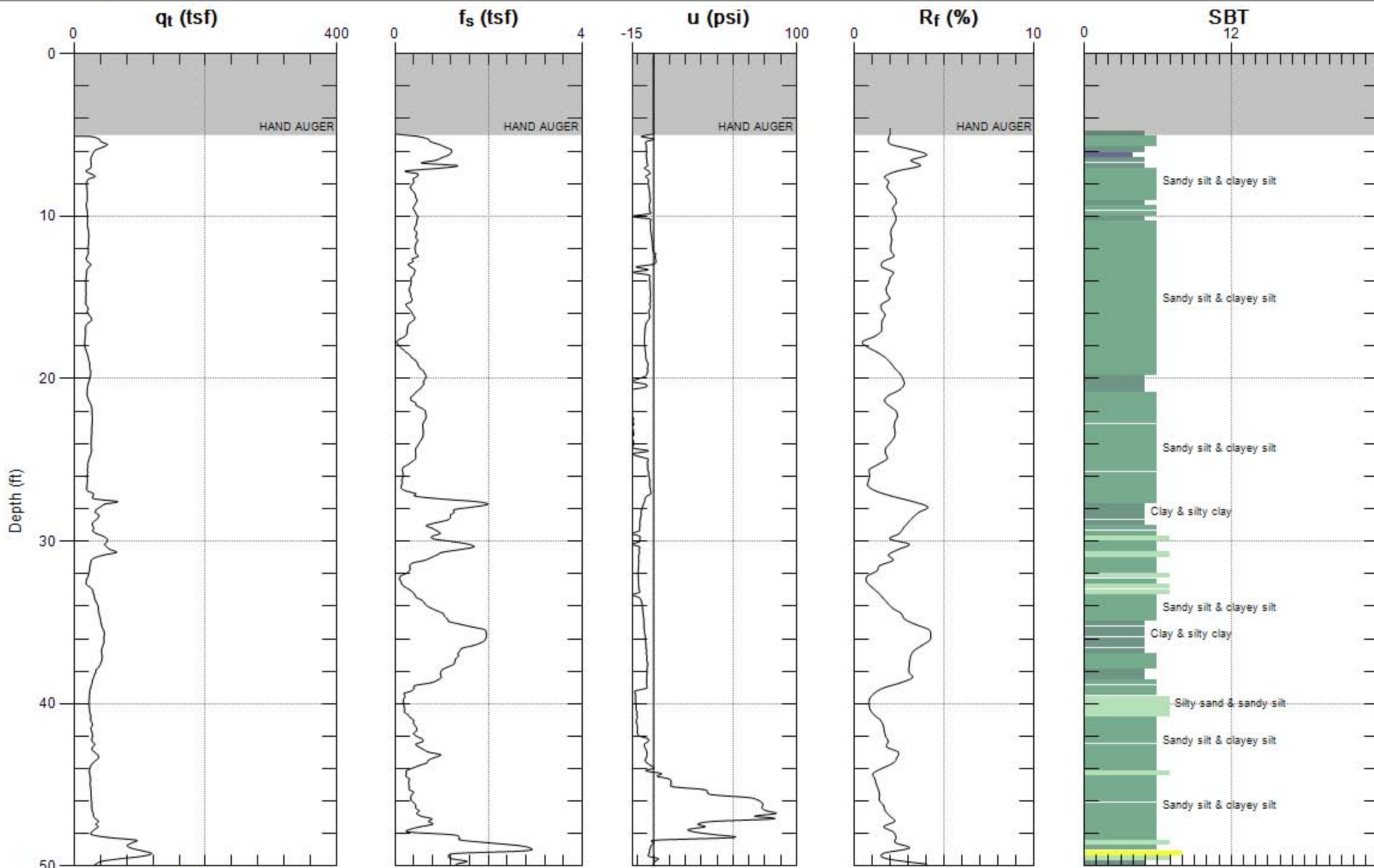
Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



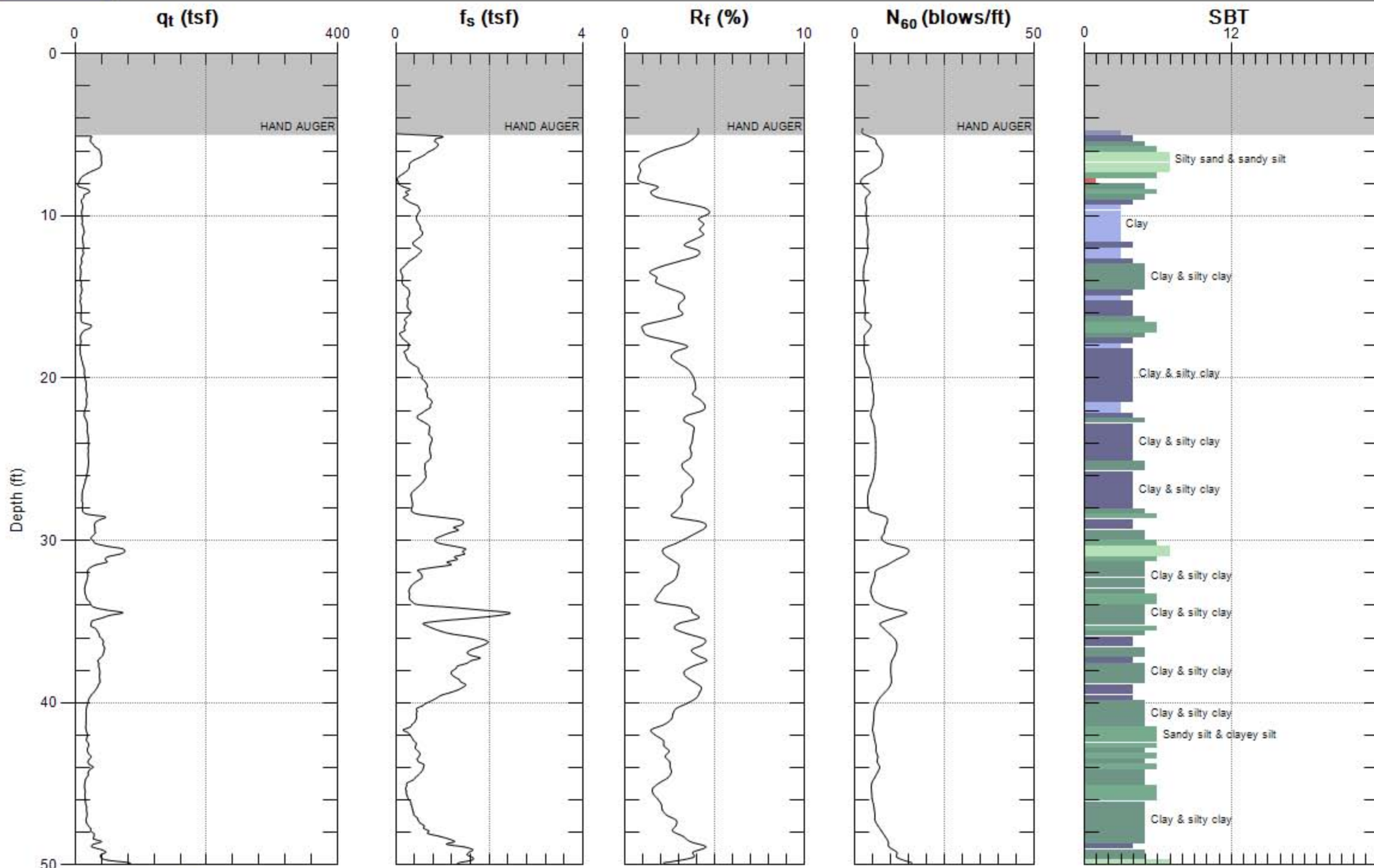
Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



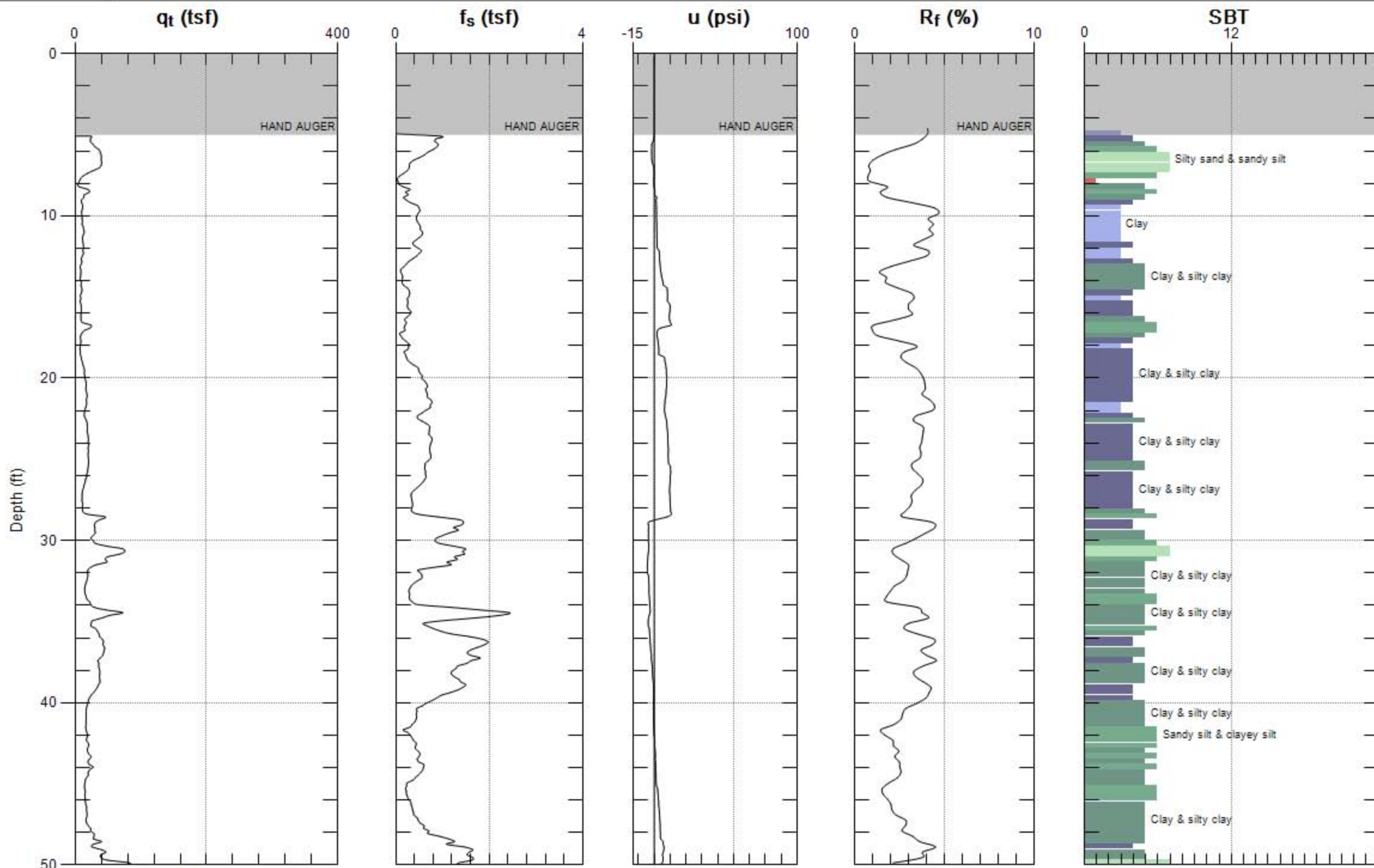
Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Max. Depth: 50.200 (ft)  
 Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



# Cone Penetration Test Data & Interpretation

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

Cohesive soils (clays)

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

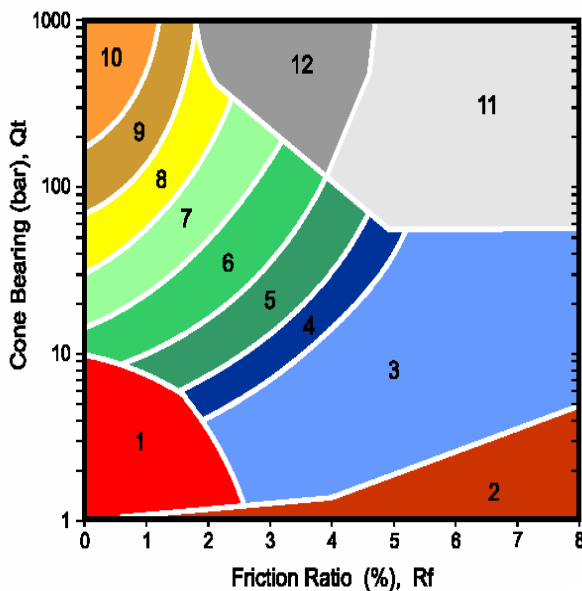
Cohesionless soils (sands)

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

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

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

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



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

\*over consolidated or cemented

Figure SBT



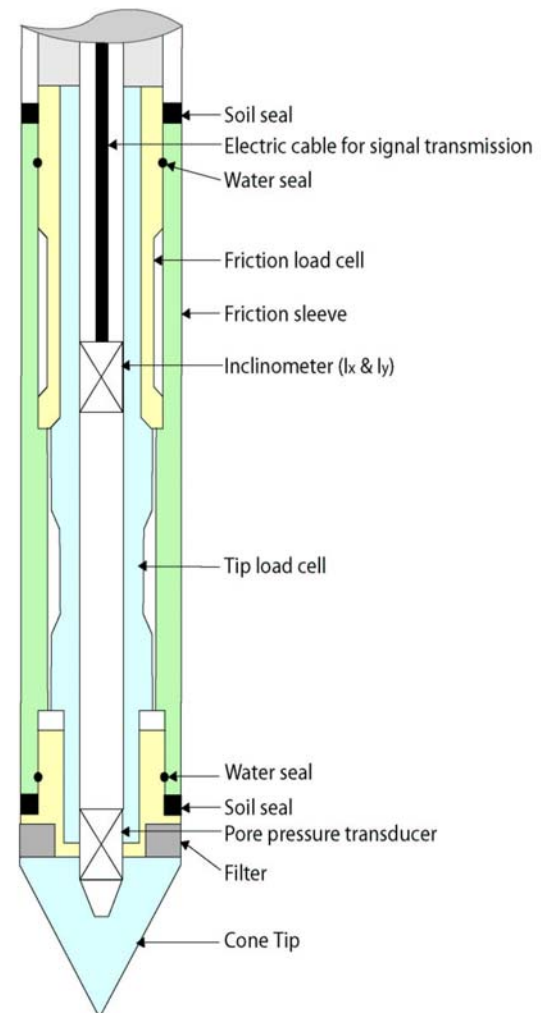


## Cone Penetration Testing Procedure (CPT)

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

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

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



*Figure CPT*

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

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORT**

April 20, 2007



Blair Bridges  
Ninyo & Moore  
1956 Webster Street, Suite 400  
Oakland, CA 94612  
TEL: (510) 633-5640  
FAX: (510) 633-5646

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
Arizona: AZ0689  
CSDLAC No.: 10196  
Workorder No.: 091271

RE: Quality Tune Ups (QTU), 601007003

Attention: Blair Bridges

Enclosed are the results for sample(s) received on April 12, 2007 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-001

**Client Sample ID:** GW-10-13  
**Collection Date:** 4/9/2007 12:27:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070416E	QC Batch: 35136				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/17/2007 11:44 AM
ORO	0.076	0.050		mg/L	1	4/17/2007 11:44 AM
Surr: p-Terphenyl	69.4	24-115		%REC	1	4/17/2007 11:44 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070413A	QC Batch: I07VW089				PrepDate:	Analyst: <b>EA</b>
GRO	0.11	0.050		mg/L	1	4/13/2007 09:26 PM
Surr: Bromofluorobenzene (FID)	117	70-129		%REC	1	4/13/2007 09:26 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5_070416A	QC Batch: T07VS072				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:44 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 12:44 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/16/2007 12:44 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



Advanced Technology  
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-001

**Client Sample ID:** GW-10-13  
**Collection Date:** 4/9/2007 12:27:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS5_070416A	QC Batch:	T07VS072	PrepDate:	Analyst:	TT
Benzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Bromobenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Bromodichloromethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Bromoform	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Bromomethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Chloroethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Chloroform	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Chloromethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Dibromomethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/16/2007 12:44 PM	
Methylene chloride	ND	1.0	µg/L	1	4/16/2007 12:44 PM	
MTBE	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Naphthalene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
o-Xylene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Styrene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Toluene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Trichloroethene	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/16/2007 12:44 PM	
Surr: 1,2-Dichloroethane-d4	98.1	67-118	%REC	1	4/16/2007 12:44 PM	
Surr: 4-Bromofluorobenzene	100	81-119	%REC	1	4/16/2007 12:44 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



Advanced Technology  
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-001

**Client Sample ID:** GW-10-13  
**Collection Date:** 4/9/2007 12:27:00 PM  
**Matrix:** GROUND WATER

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS5_070416A	QC Batch: T07VS072	PrepDate:	Analyst: TT	
Surr: Dibromofluoromethane	97.2	77-112	%REC 1	4/16/2007 12:44 PM
Surr: Toluene-d8	97.7	82-116	%REC 1	4/16/2007 12:44 PM

---

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-002

**Client Sample ID:** NM-10-8  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3550B

#### EPA 8015B(M)

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 10:12 PM
ORO	2.9	1.0		mg/Kg	1	4/17/2007 10:12 PM
Surr: p-Terphenyl	78.4	27-110		%REC	1	4/17/2007 10:12 PM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 03:34 PM
Surr: Bromofluorobenzene (FID)	69.1	42-149		%REC	1	4/19/2007 03:34 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 02:30 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 02:30 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-002

**Client Sample ID:** NM-10-8  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 02:30 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 02:30 PM	
Surr: 1,2-Dichloroethane-d4	82.2	41-149	%REC	1	4/16/2007 02:30 PM	
Surr: 4-Bromofluorobenzene	75.0	57-137	%REC	1	4/16/2007 02:30 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-002

**Client Sample ID:** NM-10-8  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	82.8	51-137	%REC 1 4/16/2007 02:30 PM
Surr: Toluene-d8	85.3	68-127	%REC 1 4/16/2007 02:30 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-003

**Client Sample ID:** NM-10-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 09:21 PM
ORO	ND	1.0		mg/Kg	1	4/17/2007 09:21 PM
Surr: p-Terphenyl	73.3	27-110		%REC	1	4/17/2007 09:21 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 06:12 PM
Surr: Bromofluorobenzene (FID)	91.5	42-149		%REC	1	4/19/2007 06:12 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 02:48 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 02:48 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-003

**Client Sample ID:** NM-10-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 02:48 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 02:48 PM	
Surr: 1,2-Dichloroethane-d4	82.5	41-149	%REC	1	4/16/2007 02:48 PM	
Surr: 4-Bromofluorobenzene	78.6	57-137	%REC	1	4/16/2007 02:48 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-003

**Client Sample ID:** NM-10-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	84.4	51-137	%REC 1 4/16/2007 02:48 PM
Surr: Toluene-d8	89.5	68-127	%REC 1 4/16/2007 02:48 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-004

**Client Sample ID:** GW-11-18  
**Collection Date:** 4/9/2007 1:50:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070416E	QC Batch: 35136				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/17/2007 12:10 PM
ORO	ND	0.050		mg/L	1	4/17/2007 12:10 PM
Surr: p-Terphenyl	90.6	24-115		%REC	1	4/17/2007 12:10 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070413A	QC Batch: I07VW089				PrepDate:	Analyst: <b>EA</b>
GRO	0.11	0.050		mg/L	1	4/13/2007 09:52 PM
Surr: Bromofluorobenzene (FID)	117	70-129		%REC	1	4/13/2007 09:52 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5_070416A	QC Batch: T07VS072				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:08 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 01:08 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/16/2007 01:08 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-004

**Client Sample ID:** GW-11-18  
**Collection Date:** 4/9/2007 1:50:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS5_070416A	QC Batch:	T07VS072	PrepDate:	Analyst:	TT
Benzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Bromobenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Bromodichloromethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Bromoform	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Bromomethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Chloroethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Chloroform	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Chloromethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Dibromomethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/16/2007 01:08 PM	
Methylene chloride	ND	1.0	µg/L	1	4/16/2007 01:08 PM	
MTBE	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Naphthalene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
o-Xylene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Styrene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Toluene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Trichloroethene	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/16/2007 01:08 PM	
Surr: 1,2-Dichloroethane-d4	97.0	67-118	%REC	1	4/16/2007 01:08 PM	
Surr: 4-Bromofluorobenzene	95.8	81-119	%REC	1	4/16/2007 01:08 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-004

**Client Sample ID:** GW-11-18  
**Collection Date:** 4/9/2007 1:50:00 AM  
**Matrix:** GROUND WATER

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS5_070416A	QC Batch: T07VS072	PrepDate:	Analyst: TT	
Surr: Dibromofluoromethane	97.1	77-112	%REC 1	4/16/2007 01:08 PM
Surr: Toluene-d8	99.3	82-116	%REC 1	4/16/2007 01:08 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-005

**Client Sample ID:** NM-11-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3550B

#### EPA 8015B(M)

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 08:56 PM
ORO	ND	1.0		mg/Kg	1	4/17/2007 08:56 PM
Surr: p-Terphenyl	64.0	27-110		%REC	1	4/17/2007 08:56 PM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 06:35 PM
Surr: Bromofluorobenzene (FID)	90.3	42-149		%REC	1	4/19/2007 06:35 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 03:06 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 03:06 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-005

**Client Sample ID:** NM-11-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 03:06 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 03:06 PM	
Surr: 1,2-Dichloroethane-d4	79.5	41-149	%REC	1	4/16/2007 03:06 PM	
Surr: 4-Bromofluorobenzene	76.3	57-137	%REC	1	4/16/2007 03:06 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-005

**Client Sample ID:** NM-11-13  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	80.5	51-137	%REC 1 4/16/2007 03:06 PM
Surr: Toluene-d8	84.1	68-127	%REC 1 4/16/2007 03:06 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-006

**Client Sample ID:** NM-11-18  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3550B

#### EPA 8015B(M)

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 08:31 PM
ORO	ND	1.0		mg/Kg	1	4/17/2007 08:31 PM
Surr: p-Terphenyl	57.6	27-110		%REC	1	4/17/2007 08:31 PM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 05:00 PM
Surr: Bromofluorobenzene (FID)	103	42-149		%REC	1	4/19/2007 05:00 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 03:23 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 03:23 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-006

**Client Sample ID:** NM-11-18  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 03:23 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 03:23 PM	
Surr: 1,2-Dichloroethane-d4	83.6	41-149	%REC	1	4/16/2007 03:23 PM	
Surr: 4-Bromofluorobenzene	81.5	57-137	%REC	1	4/16/2007 03:23 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-006

**Client Sample ID:** NM-11-18  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	84.6	51-137	%REC 1 4/16/2007 03:23 PM
Surr: Toluene-d8	87.7	68-127	%REC 1 4/16/2007 03:23 PM

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<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-007

**Client Sample ID:** GW-17-17  
**Collection Date:** 4/9/2007 4:00:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070416E	QC Batch: 35136				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	0.088	0.050		mg/L	1	4/17/2007 12:35 PM
ORO	ND	0.050		mg/L	1	4/17/2007 12:35 PM
Surr: p-Terphenyl	77.4	24-115		%REC	1	4/17/2007 12:35 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070413A	QC Batch: I07VW089				PrepDate:	Analyst: <b>EA</b>
GRO	1.0	0.10		mg/L	2	4/13/2007 10:45 PM
Surr: Bromofluorobenzene (FID)	103	70-129		%REC	2	4/13/2007 10:45 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5_070416A	QC Batch: T07VS072				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 01:32 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 01:32 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/16/2007 01:32 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-007

**Client Sample ID:** GW-17-17  
**Collection Date:** 4/9/2007 4:00:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS5_070416A	QC Batch:	T07VS072	PrepDate:	Analyst:	TT
Benzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Bromobenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Bromodichloromethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Bromoform	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Bromomethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Chloroethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Chloroform	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Chloromethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Dibromomethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/16/2007 01:32 PM	
Methylene chloride	ND	1.0	µg/L	1	4/16/2007 01:32 PM	
MTBE	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Naphthalene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
o-Xylene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Styrene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Toluene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Trichloroethene	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/16/2007 01:32 PM	
Surr: 1,2-Dichloroethane-d4	98.6	67-118	%REC	1	4/16/2007 01:32 PM	
Surr: 4-Bromofluorobenzene	95.6	81-119	%REC	1	4/16/2007 01:32 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-007

**Client Sample ID:** GW-17-17  
**Collection Date:** 4/9/2007 4:00:00 AM  
**Matrix:** GROUND WATER

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS5_070416A	QC Batch: T07VS072	PrepDate:	Analyst: TT	
Surr: Dibromofluoromethane	95.4	77-112	%REC 1	4/16/2007 01:32 PM
Surr: Toluene-d8	96.0	82-116	%REC 1	4/16/2007 01:32 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-008

**Client Sample ID:** GW-17-32  
**Collection Date:** 4/9/2007 5:00:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070416E	QC Batch: 35136				PrepDate: 4/16/2007	Analyst: CBR
DRO	0.10	0.050		mg/L	1	4/17/2007 01:26 PM
ORO	0.15	0.050		mg/L	1	4/17/2007 01:26 PM
Surr: p-Terphenyl	73.0	24-115		%REC	1	4/17/2007 01:26 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070413A	QC Batch: I07VW089				PrepDate:	Analyst: EA
GRO	ND	0.050		mg/L	1	4/13/2007 10:19 PM
Surr: Bromofluorobenzene (FID)	111	70-129		%REC	1	4/13/2007 10:19 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5_070416A	QC Batch: T07VS072				PrepDate:	Analyst: TT
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,2-Dichloroethane	0.53	0.50		µg/L	1	4/16/2007 12:21 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/16/2007 12:21 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/16/2007 12:21 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/16/2007 12:21 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-008

**Client Sample ID:** GW-17-32  
**Collection Date:** 4/9/2007 5:00:00 AM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS5_070416A	QC Batch:	T07VS072	PrepDate:	Analyst:	TT
Benzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Bromobenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Bromodichloromethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Bromoform	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Bromomethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Chloroethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Chloroform	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Chloromethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Dibromomethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/16/2007 12:21 PM	
Methylene chloride	ND	1.0	µg/L	1	4/16/2007 12:21 PM	
MTBE	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Naphthalene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
o-Xylene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Styrene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Toluene	1.1	0.50	µg/L	1	4/16/2007 12:21 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Trichloroethene	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/16/2007 12:21 PM	
Surr: 1,2-Dichloroethane-d4	98.6	67-118	%REC	1	4/16/2007 12:21 PM	
Surr: 4-Bromofluorobenzene	94.3	81-119	%REC	1	4/16/2007 12:21 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-008

**Client Sample ID:** GW-17-32  
**Collection Date:** 4/9/2007 5:00:00 AM  
**Matrix:** GROUND WATER

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS5_070416A	QC Batch: T07VS072	PrepDate:	Analyst: TT	
Surr: Dibromofluoromethane	96.9	77-112	%REC 1	4/16/2007 12:21 PM
Surr: Toluene-d8	98.2	82-116	%REC 1	4/16/2007 12:21 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-009

**Client Sample ID:** NM-17-12  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 09:47 PM
ORO	2.4	1.0		mg/Kg	1	4/17/2007 09:47 PM
Surr: p-Terphenyl	72.9	27-110		%REC	1	4/17/2007 09:47 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 05:24 PM
Surr: Bromofluorobenzene (FID)	91.2	42-149		%REC	1	4/19/2007 05:24 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 03:42 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 03:42 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-009

**Client Sample ID:** NM-17-12  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 03:42 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 03:42 PM	
Surr: 1,2-Dichloroethane-d4	83.1	41-149	%REC	1	4/16/2007 03:42 PM	
Surr: 4-Bromofluorobenzene	75.6	57-137	%REC	1	4/16/2007 03:42 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Laboratories

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# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-009

**Client Sample ID:** NM-17-12  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>	
Surr: Dibromofluoromethane	80.9	51-137	%REC 1	4/16/2007 03:42 PM
Surr: Toluene-d8	84.5	68-127	%REC 1	4/16/2007 03:42 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-010

**Client Sample ID:** NM-17-17  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070416G	QC Batch: 35141				PrepDate: 4/16/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/17/2007 08:05 PM
ORO	ND	1.0		mg/Kg	1	4/17/2007 08:05 PM
Surr: p-Terphenyl	58.7	27-110		%REC	1	4/17/2007 08:05 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070419A	QC Batch: E07VS112				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/19/2007 05:48 PM
Surr: Bromofluorobenzene (FID)	92.6	42-149		%REC	1	4/19/2007 05:48 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070416A	QC Batch: K07VS060				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2007 03:59 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/16/2007 03:59 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-010

**Client Sample ID:** NM-17-17  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070416A	QC Batch:	K07VS060	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Bromoform	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Chloroform	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/16/2007 03:59 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
MTBE	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Styrene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Toluene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/16/2007 03:59 PM	
Surr: 1,2-Dichloroethane-d4	82.1	41-149	%REC	1	4/16/2007 03:59 PM	
Surr: 4-Bromofluorobenzene	86.2	57-137	%REC	1	4/16/2007 03:59 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 20-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003  
**Lab ID:** 091271-010

**Client Sample ID:** NM-17-17  
**Collection Date:** 4/9/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS4_070416A	QC Batch: K07VS060	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	82.7	51-137	%REC 1 4/16/2007 03:59 PM
Surr: Toluene-d8	88.6	68-127	%REC 1 4/16/2007 03:59 PM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8015\_S\_DM LL**

Sample ID: <b>MB-35141</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>77956</b>						
Client ID: <b>PBS</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1175708</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	2.234		2.670		83.7	27	110				

Sample ID: <b>LCS-35141</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>77956</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1175709</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	17.580	1.0	33.00	0	53.3	28	126				
Surr: p-Terphenyl	1.871		2.670		70.1	27	110				

Sample ID: <b>091256-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>77956</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1175710</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

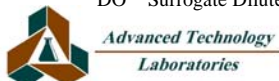
DRO	16.498	1.0	33.00	1.989	44.0	12	113				
Surr: p-Terphenyl	2.020		2.670		75.6	27	110				

Sample ID: <b>091256-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>77956</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1175711</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	17.457	1.0	33.00	1.989	46.9	12	113	16.50	5.65	30	
Surr: p-Terphenyl	1.974		2.670		73.9	27	110		0	0	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM LL**

Sample ID: <b>MB-35141</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78031</b>						
Client ID: <b>PBS</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176764</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

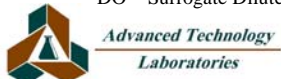
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	1.843		2.670		69.0	27	110				

Sample ID: <b>LCS-35141</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78031</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>35141</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176765</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	15.462	1.0	33.00	0	46.9	28	126				
Surr: p-Terphenyl	1.433		2.670		53.7	27	110				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_GAS**

Sample ID: <b>E041907MB1</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78063</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E07VS112</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177488</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	98.881		100.0		98.9	42	149				

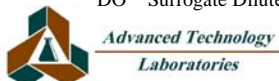
Sample ID: <b>E041907MB1MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78063</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E07VS112</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177489</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.914	1.0	5.000	0	98.3	22	139				
Surr: Bromofluorobenzene (FID)	94.517		100.0		94.5	42	149				

Sample ID: <b>E041907MB1MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78063</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>E07VS112</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177490</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.975	1.0	5.000	0	99.5	22	139	4.914	1.23	30	
Surr: Bromofluorobenzene (FID)	93.880		100.0		93.9	42	149		0	30	

Sample ID: <b>E041907LCS2</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78063</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E07VS112</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177491</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.821	1.0	5.000	0	96.4	74	112				
Surr: Bromofluorobenzene (FID)	92.716		100.0		92.7	42	149				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM\_LL**

Sample ID: <b>LCS-35136</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176561</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.648	0.050	1.000	0	64.8	44	123				
Surr: p-Terphenyl	0.065		0.08000		81.4	24	115				

Sample ID: <b>MB-35136</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176562</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.073		0.08000		90.9	24	115				

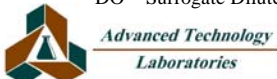
Sample ID: <b>MB-35136MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176563</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.552	0.050	1.000	0	55.2	44	123				
Surr: p-Terphenyl	0.061		0.08000		75.8	24	115				

Sample ID: <b>MB-35136MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/17/2007</b>	SeqNo: <b>1176564</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.513	0.050	1.000	0	51.3	44	123				
Surr: p-Terphenyl	0.052		0.08000		64.9	24	115				

Sample ID: <b>MB-35136</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177062</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM\_LL**

Sample ID: <b>MB-35136</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177062</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

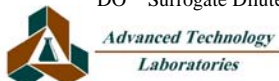
DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.075		0.08000		93.5	24	115				

Sample ID: <b>LCS-35136</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/16/2007</b>	RunNo: <b>78003</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35136</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177063</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.696	0.050	1.000	0	69.6	44	123				
Surr: p-Terphenyl	0.067		0.08000		83.3	24	115				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_GP LL**

Sample ID: <b>I041307LCS2</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>77800</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>I07VW089</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/13/2007</b>	SeqNo: <b>1173253</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.992	0.050	1.000	0	99.2	71	120				
Surr: Bromofluorobenzene (FID)	105.766		100.0		106	70	129				

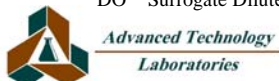
Sample ID: <b>I041307MB2MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>77800</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>I07VW089</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/13/2007</b>	SeqNo: <b>1173254</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.015	0.050	1.000	0	102	71	120				
Surr: Bromofluorobenzene (FID)	122.707		100.0		123	70	129				

Sample ID: <b>I041307MB3MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>77800</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>I07VW089</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/13/2007</b>	SeqNo: <b>1173255</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.949	0.050	1.000	0	94.9	71	120				
Surr: Bromofluorobenzene (FID)	110.149		100.0		110	70	129				

Sample ID: <b>I041307MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>77800</b>						
Client ID: <b>PBW</b>	Batch ID: <b>I07VW089</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/13/2007</b>	SeqNo: <b>1173256</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	100.357		100.0		100	70	129				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

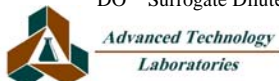
Sample ID: <b>K041607LCS1</b>	SampType: <b>LCS</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>77826</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>K07VS060</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1174031</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	102.130	5.0	100.0	0	102	72	125				
Benzene	103.410	5.0	100.0	0	103	80	119				
Chlorobenzene	95.410	5.0	100.0	0	95.4	78	119				
MTBE	103.110	5.0	100.0	0	103	58	138				
Toluene	103.050	5.0	100.0	0	103	73	121				
Trichloroethene	99.130	5.0	100.0	0	99.1	76	120				
Surr: 1,2-Dichloroethane-d4	43.490		50.00		87.0	41	149				
Surr: 4-Bromofluorobenzene	41.390		50.00		82.8	57	137				
Surr: Dibromofluoromethane	43.410		50.00		86.8	51	137				
Surr: Toluene-d8	45.260		50.00		90.5	68	127				

Sample ID: <b>K041607MB3MS1</b>	SampType: <b>MS</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>77826</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>K07VS060</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1174032</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	100.910	5.0	100.0	0	101	49	144				
Benzene	103.740	5.0	100.0	0	104	64	128				
Chlorobenzene	95.330	5.0	100.0	0	95.3	44	145				
MTBE	102.320	5.0	100.0	0	102	48	147				
Toluene	102.610	5.0	100.0	0	103	51	137				
Trichloroethene	98.560	5.0	100.0	0	98.6	52	141				
Surr: 1,2-Dichloroethane-d4	42.720		50.00		85.4	41	149				
Surr: 4-Bromofluorobenzene	41.480		50.00		83.0	57	137				
Surr: Dibromofluoromethane	42.370		50.00		84.7	51	137				
Surr: Toluene-d8	44.970		50.00		89.9	68	127				

Sample ID: <b>K041607MB3MSD1</b>	SampType: <b>MSD</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>77826</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>K07VS060</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1174033</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |





**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

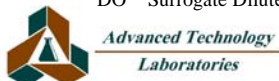
**TestCode: 8260\_S**

Sample ID: <b>K041607MB3MSD1</b>		SampType: <b>MSD</b>		TestCode: <b>8260_S</b>		Units: <b>µg/Kg</b>		Prep Date:		RunNo: <b>77826</b>	
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>K07VS060</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>				SeqNo: <b>1174033</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	100.440	5.0	100.0	0	100	49	144	100.9	0.467	30	
Benzene	104.220	5.0	100.0	0	104	64	128	103.7	0.462	30	
Chlorobenzene	95.720	5.0	100.0	0	95.7	44	145	95.33	0.408	30	
MTBE	101.090	5.0	100.0	0	101	48	147	102.3	1.21	30	
Toluene	102.470	5.0	100.0	0	102	51	137	102.6	0.137	30	
Trichloroethene	99.880	5.0	100.0	0	99.9	52	141	98.56	1.33	30	
Surr: 1,2-Dichloroethane-d4	41.890		50.00		83.8	41	149		0	30	
Surr: 4-Bromofluorobenzene	41.400		50.00		82.8	57	137		0	30	
Surr: Dibromofluoromethane	42.930		50.00		85.9	51	137		0	30	
Surr: Toluene-d8	44.690		50.00		89.4	68	127		0	30	

Sample ID: <b>K041607MB3</b>		SampType: <b>MBLK</b>		TestCode: <b>8260_S</b>		Units: <b>µg/Kg</b>		Prep Date:		RunNo: <b>77826</b>	
Client ID: <b>PBS</b>		Batch ID: <b>K07VS060</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>				SeqNo: <b>1174034</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

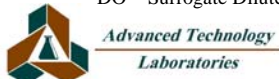
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

Sample ID: <b>K041607MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>77826</b>						
Client ID: <b>PBS</b>	Batch ID: <b>K07VS060</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1174034</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

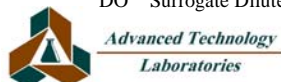
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

Sample ID: <b>K041607MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>77826</b>						
Client ID: <b>PBS</b>	Batch ID: <b>K07VS060</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1174034</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	45.870		50.00		91.7	41	149				
Surr: 4-Bromofluorobenzene	39.660		50.00		79.3	57	137				
Surr: Dibromofluoromethane	43.950		50.00		87.9	51	137				
Surr: Toluene-d8	43.960		50.00		87.9	68	127				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

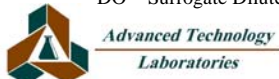
Sample ID: <b>T041607LC1</b>		SampType: <b>LCS</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>77907</b>		
Client ID: <b>LCSW</b>		Batch ID: <b>T07VS072</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>		SeqNo: <b>1175079</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	21.440	0.50	20.00	0	107	74	132					
Benzene	20.710	0.50	20.00	0	104	86	116					
Chlorobenzene	19.050	0.50	20.00	0	95.2	82	115					
MTBE	21.660	0.50	20.00	0	108	71	129					
Toluene	20.050	0.50	20.00	0	100	88	115					
Trichloroethene	19.480	0.50	20.00	0	97.4	86	118					
Surr: 1,2-Dichloroethane-d4	24.500		25.00		98.0	67	118					
Surr: 4-Bromofluorobenzene	24.280		25.00		97.1	81	119					
Surr: Dibromofluoromethane	24.490		25.00		98.0	77	112					
Surr: Toluene-d8	24.780		25.00		99.1	82	116					

Sample ID: <b>T041607MB2MS</b>		SampType: <b>MS</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>77907</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>T07VS072</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>		SeqNo: <b>1175080</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	20.610	0.50	20.00	0	103	74	132					
Benzene	20.350	0.50	20.00	0	102	86	116					
Chlorobenzene	18.890	0.50	20.00	0	94.4	82	115					
MTBE	21.750	0.50	20.00	0	109	71	129					
Toluene	19.460	0.50	20.00	0	97.3	88	115					
Trichloroethene	18.750	0.50	20.00	0	93.8	86	118					
Surr: 1,2-Dichloroethane-d4	24.030		25.00		96.1	67	118					
Surr: 4-Bromofluorobenzene	23.840		25.00		95.4	81	119					
Surr: Dibromofluoromethane	24.360		25.00		97.4	77	112					
Surr: Toluene-d8	24.290		25.00		97.2	82	116					

Sample ID: <b>T041607MB2MSD</b>		SampType: <b>MSD</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>77907</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>T07VS072</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>		SeqNo: <b>1175081</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

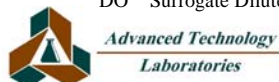
**TestCode: 8260\_WP\_LL**

Sample ID: <b>T041607MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>77907</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>T07VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1175081</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.460	0.50	20.00	0	102	74	132	20.61	0.730	30	
Benzene	20.050	0.50	20.00	0	100	86	116	20.35	1.49	30	
Chlorobenzene	18.680	0.50	20.00	0	93.4	82	115	18.89	1.12	30	
MTBE	21.550	0.50	20.00	0	108	71	129	21.75	0.924	30	
Toluene	19.360	0.50	20.00	0	96.8	88	115	19.46	0.515	30	
Trichloroethene	18.170	0.50	20.00	0	90.9	86	118	18.75	3.14	30	
Surr: 1,2-Dichloroethane-d4	23.810		25.00		95.2	67	118		0	30	
Surr: 4-Bromofluorobenzene	24.110		25.00		96.4	81	119		0	30	
Surr: Dibromofluoromethane	24.290		25.00		97.2	77	112		0	30	
Surr: Toluene-d8	24.380		25.00		97.5	82	116		0	30	

Sample ID: <b>T041607MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>77907</b>						
Client ID: <b>PBW</b>	Batch ID: <b>T07VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1175082</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

## ANALYTICAL QC SUMMARY REPORT

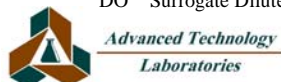
**TestCode:** 8260\_WP\_LL

Sample ID: <b>T041607MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>77907</b>
Client ID: <b>PBW</b>	Batch ID: <b>T07VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1175082</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091271  
**Project:** Quality Tune Ups (QTU), 601007003

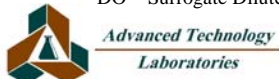
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

Sample ID: <b>T041607MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>77907</b>						
Client ID: <b>PBW</b>	Batch ID: <b>T07VS072</b>	TestNo: <b>EPA 8260B</b>	Analysis Date: <b>4/16/2007</b>	SeqNo: <b>1175082</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	24.740		25.00		99.0	67	118				
Surr: 4-Bromofluorobenzene	23.150		25.00		92.6	81	119				
Surr: Dibromofluoromethane	24.430		25.00		97.7	77	112				
Surr: Toluene-d8	24.310		25.00		97.2	82	116				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



# CHAIN OF CUSTODY RECORD



**Advanced Technology Laboratories**

3275 Walnut Avenue  
Signal Hill, CA 90755  
(562) 989-4045 • Fax (562) 989-4040

## FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED <sup>CIO</sup> Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>4/12</u>	

Client: <u>Minyo &amp; Moore</u>	Address: <u>1956 Webster St</u>	TEL: (510) 633-5640
Attn: <u>Blair Bridges</u>	City <u>Oakland</u> State <u>CA</u> Zip Code <u>94612</u>	FAX: (510) 633-5646

Project Name: <u>Quality Tune Ups (QTU)</u>	Project #: <u>601007003</u>	Sampler: <u>Blair Bridges</u> (Printed Name)	<u>[Signature]</u> (Signature)
Relinquished by: (Signature and Printed Name) <u>Blair Bridges</u>	Date: <u>4/11/07</u>	Time: <u>1232</u>	Received by: (Signature and Printed Name) <u>R. AUGUSTIN</u>
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) <u>[Signature]</u>
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>Blair Bridges</u> <u>4/11/07</u> <u>[Signature]</u> Print Name Date	Send Report To: Attn: <u>Blair Bridges</u> Co: <u>Minyo and Moore</u> Address <u>1956 Webster St, #400</u> City <u>Oakland</u> State <u>CA</u> Zip <u>94612</u>	Bill To: Attn: Co: <u>Minyo and Moore</u> Address <u>see</u> City _____ State _____ Zip _____
---	---	---

Special Instructions/Comments:  
Please analyse for MTBE along with VOC's.

**Sample/Records - Archival & Disposal**  
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
• Sample : \$2.00 / sample / mo (after 45 days)  
• Records : \$1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	
		<u>071271-001</u>	<u>GU-10-13</u>	<u>4/9/07</u>	<u>1227</u>	
		<u>2</u>	<u>NM-10-8</u>			
		<u>3</u>	<u>NM-10-13</u>			
		<u>4</u>	<u>GU-11-18</u>		<u>0150</u>	
		<u>5</u>	<u>NM-11-13</u>			
		<u>6</u>	<u>NM-11-18</u>			
		<u>7</u>	<u>GU-17-17</u>		<u>0400</u>	
		<u>8</u>	<u>GU-17-32</u>		<u>0500</u>	
		<u>9</u>	<u>NM-17-62</u>			
		<u>10</u>	<u>NM-17-17</u>			

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX								PRESERVATION	Q A / Q C	
	8091A (Pesticides)	8092 (PCB)	8260B (Volatiles)	8270C (DMA)	8010B (Total Metals)	8015B (GRO) / 8020 (BTEX)	8015R (DPO)	8021 (BTEX)			TAT #
<u>MTBE</u>									6	SV-LL	<u>was pres</u>
<u>BOLS M TPH-G</u>									1	T	<u>standard</u>
<u>BOLS M TPH-G</u>									1	T	
<u>BOLS M TPH-G</u>									6	SV-LL	
<u>BOLS M TPH-G</u>									6	SV-LL	
<u>BOLS M TPH-G</u>									6	SV-LL	<u>All VOCAs preserved w/ HCl</u>
<u>BOLS M TPH-G</u>									6	SV-LL	
<u>BOLS M TPH-G</u>									1	T	
<u>BOLS M TPH-G</u>									1	T	

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A = Overnight ≤ 24 hr	B = Emergency Next workday	C = Critical 2 Workdays	D = Urgent 3 Workdays	E = Routine 7 Workdays	Preservatives: H=Hcl N=HNO <sub>3</sub> S=H <sub>2</sub> SO <sub>4</sub> C=4°C Z=Zn(AC) <sub>2</sub> O=NaOH T=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						



April 24, 2007



Blair Bridges  
Ninyo & Moore  
1956 Webster Street, Suite 400  
Oakland, CA 94612

TEL: (510) 633-5640  
FAX: (510) 633-5646

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401

Arizona: AZ0689  
CSDLAC No.: 10196  
Workorder No.: 091402

RE: Quality Tune Ups (QTU), 401007003

Attention: Blair Bridges

Enclosed are the results for sample(s) received on April 18, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-001

**Client Sample ID:** NM-13-13  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070420A	QC Batch: 35270				PrepDate: 4/20/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/21/2007 12:41 AM
ORO	ND	1.0		mg/Kg	1	4/21/2007 12:41 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070420A	QC Batch: E07VS114				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/20/2007 02:10 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070420A	QC Batch: K07VS064				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/20/2007 04:13 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
Benzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:13 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-001

**Client Sample ID:** NM-13-13  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 04:13 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 04:13 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-002

**Client Sample ID:** NM-13-18  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070420A	QC Batch: 35270				PrepDate: 4/20/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/21/2007 01:07 AM
ORO	ND	1.0		mg/Kg	1	4/21/2007 01:07 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070420A	QC Batch: E07VS114				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/20/2007 02:34 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070420A	QC Batch: K07VS064				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/20/2007 04:31 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
Benzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/20/2007 04:31 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-002

**Client Sample ID:** NM-13-18  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 04:31 PM	
Methylene chloride	5.5	5.0	µg/Kg	1	4/20/2007 04:31 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 04:31 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-003

**Client Sample ID:** GW-13-18  
**Collection Date:** 4/16/2007 5:10:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3510C

#### EPA 8015B(M)

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: <b>CBR</b>
DRO	10	0.50		mg/L	10	4/24/2007 11:51 AM
ORO	0.90	0.50		mg/L	10	4/24/2007 11:51 AM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: <b>EA</b>
GRO	2.2	0.25		mg/L	5	4/19/2007 02:05 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS11_070423A	QC Batch: A07VW103				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:03 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
Benzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM
Bromobenzene	ND	0.50		µg/L	1	4/23/2007 01:03 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-003

**Client Sample ID:** GW-13-18  
**Collection Date:** 4/16/2007 5:10:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS11_070423A	QC Batch:	A07VW103	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Bromoform	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Bromomethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Chloroethane	0.53	0.50	µg/L	1	4/23/2007 01:03 PM	
Chloroform	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Chloromethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Dibromomethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/23/2007 01:03 PM	
Methylene chloride	ND	1.0	µg/L	1	4/23/2007 01:03 PM	
MTBE	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
n-Butylbenzene	2.4	0.50	µg/L	1	4/23/2007 01:03 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Naphthalene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
o-Xylene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
sec-Butylbenzene	3.3	0.50	µg/L	1	4/23/2007 01:03 PM	
Styrene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Toluene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Trichloroethene	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/23/2007 01:03 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/23/2007 01:03 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-004

**Client Sample ID:** NM-14-13  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3550B

#### EPA 8015B(M)

RunID: GC7_BACK_070420A	QC Batch: 35270	PrepDate: 4/20/2007	Analyst: CBR		
DRO	ND	1.0	mg/Kg	1	4/21/2007 01:32 AM
ORO	ND	1.0	mg/Kg	1	4/21/2007 01:32 AM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC2_070420A	QC Batch: E07VS114	PrepDate:	Analyst: ML		
GRO	ND	1.0	mg/Kg	1	4/20/2007 02:58 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS4_070420A	QC Batch: K07VS064	PrepDate:	Analyst: DMP		
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1-Dichloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,1-Dichloropropene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	4/20/2007 04:49 PM
1,2-Dibromoethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2-Dichloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,2-Dichloropropane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,3-Dichloropropane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
2,2-Dichloropropane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
2-Chlorotoluene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
4-Chlorotoluene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
4-Isopropyltoluene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
Benzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM
Bromobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-004

**Client Sample ID:** NM-14-13  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 04:49 PM	
Methylene chloride	6.2	5.0	µg/Kg	1	4/20/2007 04:49 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 04:49 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-005

**Client Sample ID:** NM-14-18  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070420A	QC Batch: 35270				PrepDate: 4/20/2007	Analyst: <b>CBR</b>
DRO	1.4	1.0		mg/Kg	1	4/21/2007 01:58 AM
ORO	2.9	1.0		mg/Kg	1	4/21/2007 01:58 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070420A	QC Batch: E07VS114				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/20/2007 03:22 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070420A	QC Batch: K07VS064				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/20/2007 05:07 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
Benzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:07 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-005

**Client Sample ID:** NM-14-18  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 05:07 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 05:07 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-006

**Client Sample ID:** GW-14-18  
**Collection Date:** 4/16/2007 7:00:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/23/2007 10:34 PM
ORO	ND	0.050		mg/L	1	4/23/2007 10:34 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: <b>EA</b>
GRO	ND	0.050		mg/L	1	4/19/2007 03:51 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070420A	QC Batch: Q07VW0075				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 03:59 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
Benzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM
Bromobenzene	ND	0.50		µg/L	1	4/20/2007 03:59 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-006

**Client Sample ID:** GW-14-18  
**Collection Date:** 4/16/2007 7:00:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS2_070420A	QC Batch:	Q07VW0075	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Bromoform	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Bromomethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Chloroethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Chloroform	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Chloromethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Dibromomethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/20/2007 03:59 PM	
Methylene chloride	ND	1.0	µg/L	1	4/20/2007 03:59 PM	
MTBE	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Naphthalene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
o-Xylene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Styrene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Toluene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Trichloroethene	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/20/2007 03:59 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/20/2007 03:59 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-007

**Client Sample ID:** GW-13-31  
**Collection Date:** 4/16/2007 5:30:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/23/2007 10:59 PM
ORO	ND	0.050		mg/L	1	4/23/2007 10:59 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: <b>EA</b>
GRO	ND	0.050		mg/L	1	4/19/2007 04:17 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070420A	QC Batch: Q07VW0075				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:25 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
Benzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM
Bromobenzene	ND	0.50		µg/L	1	4/20/2007 04:25 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-007

**Client Sample ID:** GW-13-31  
**Collection Date:** 4/16/2007 5:30:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS2_070420A	QC Batch:	Q07VW0075	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Bromoform	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Bromomethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Chloroethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Chloroform	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Chloromethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Dibromomethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/20/2007 04:25 PM	
Methylene chloride	ND	1.0	µg/L	1	4/20/2007 04:25 PM	
MTBE	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Naphthalene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
o-Xylene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Styrene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Toluene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Trichloroethene	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/20/2007 04:25 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/20/2007 04:25 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-008

**Client Sample ID:** GW-14-30  
**Collection Date:** 4/16/2007 7:40:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/23/2007 11:24 PM
ORO	ND	0.050		mg/L	1	4/23/2007 11:24 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: <b>EA</b>
GRO	ND	0.050		mg/L	1	4/19/2007 04:43 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070420A	QC Batch: Q07VW0075				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 04:52 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
Benzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM
Bromobenzene	ND	0.50		µg/L	1	4/20/2007 04:52 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-008

**Client Sample ID:** GW-14-30  
**Collection Date:** 4/16/2007 7:40:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS2_070420A	QC Batch:	Q07VW0075	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Bromoform	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Bromomethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Chloroethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Chloroform	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Chloromethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Dibromomethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/20/2007 04:52 PM	
Methylene chloride	ND	1.0	µg/L	1	4/20/2007 04:52 PM	
MTBE	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Naphthalene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
o-Xylene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Styrene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Toluene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Trichloroethene	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/20/2007 04:52 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/20/2007 04:52 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-009

**Client Sample ID:** NM-12-12  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070420A	QC Batch: 35270				PrepDate: 4/20/2007	Analyst: <b>CBR</b>
DRO	15	1.0		mg/Kg	1	4/21/2007 03:13 AM
ORO	12	1.0		mg/Kg	1	4/21/2007 03:13 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070420A	QC Batch: E07VS114				PrepDate:	Analyst: <b>ML</b>
GRO	6.2	1.0		mg/Kg	1	4/20/2007 03:47 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070420A	QC Batch: K07VS064				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/20/2007 05:25 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
Benzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:25 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-009

**Client Sample ID:** NM-12-12  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Isopropylbenzene	6.7	5.0	µg/Kg	1	4/20/2007 05:25 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 05:25 PM	
Methylene chloride	5.8	5.0	µg/Kg	1	4/20/2007 05:25 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
n-Butylbenzene	130	5.0	µg/Kg	1	4/20/2007 05:25 PM	
n-Propylbenzene	37	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Naphthalene	18	5.0	µg/Kg	1	4/20/2007 05:25 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
sec-Butylbenzene	44	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 05:25 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-010

**Client Sample ID:** NM-12-17  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070420A	QC Batch: 35270				PrepDate: 4/20/2007	Analyst: <b>CBR</b>
DRO	3.2	1.0		mg/Kg	1	4/21/2007 02:23 AM
ORO	1.5	1.0		mg/Kg	1	4/21/2007 02:23 AM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070420A	QC Batch: E07VS114				PrepDate:	Analyst: <b>ML</b>
GRO	11	1.0		mg/Kg	1	4/20/2007 04:10 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS4_070420A	QC Batch: K07VS064				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/20/2007 05:43 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
Benzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM
Bromobenzene	ND	5.0		µg/Kg	1	4/20/2007 05:43 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Laboratories

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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-010

**Client Sample ID:** NM-12-17  
**Collection Date:** 4/16/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS4_070420A	QC Batch:	K07VS064	PrepDate:	Analyst:	DMP
Bromodichloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Bromoform	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Chloroform	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Isopropylbenzene	18	5.0	µg/Kg	1	4/20/2007 05:43 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/20/2007 05:43 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
MTBE	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
n-Butylbenzene	220	5.0	µg/Kg	1	4/20/2007 05:43 PM	
n-Propylbenzene	130	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
sec-Butylbenzene	81	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Styrene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Toluene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/20/2007 05:43 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-011

**Client Sample ID:** GW-12-17  
**Collection Date:** 4/16/2007 9:30:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3510C

#### EPA 8015B(M)

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: CBR
DRO	32	2.5		mg/L	50	4/24/2007 12:16 PM
ORO	8.3	2.5		mg/L	50	4/24/2007 12:16 PM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: EA
GRO	7.0	0.50		mg/L	10	4/19/2007 02:31 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS11_070423A	QC Batch: A07VW103				PrepDate:	Analyst: TT
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,3,5-Trimethylbenzene	15	0.50		µg/L	1	4/23/2007 01:27 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/23/2007 01:27 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
Benzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM
Bromobenzene	ND	0.50		µg/L	1	4/23/2007 01:27 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-011

**Client Sample ID:** GW-12-17  
**Collection Date:** 4/16/2007 9:30:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS11_070423A	QC Batch:	A07VW103	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Bromoform	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Bromomethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Chloroethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Chloroform	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Chloromethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Dibromomethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Isopropylbenzene	15	0.50	µg/L	1	4/23/2007 01:27 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/23/2007 01:27 PM	
Methylene chloride	ND	1.0	µg/L	1	4/23/2007 01:27 PM	
MTBE	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
n-Butylbenzene	82	0.50	µg/L	1	4/23/2007 01:27 PM	
n-Propylbenzene	80	0.50	µg/L	1	4/23/2007 01:27 PM	
Naphthalene	15	0.50	µg/L	1	4/23/2007 01:27 PM	
o-Xylene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
sec-Butylbenzene	39	0.50	µg/L	1	4/23/2007 01:27 PM	
Styrene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
tert-Butylbenzene	0.78	0.50	µg/L	1	4/23/2007 01:27 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Toluene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Trichloroethene	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/23/2007 01:27 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/23/2007 01:27 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-012

**Client Sample ID:** GW-12-28  
**Collection Date:** 4/16/2007 10:00:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070423B	QC Batch: 35276				PrepDate: 4/23/2007	Analyst: <b>CBR</b>
DRO	ND	0.050		mg/L	1	4/23/2007 11:49 PM
ORO	ND	0.050		mg/L	1	4/23/2007 11:49 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070419A	QC Batch: I07VW092				PrepDate:	Analyst: <b>EA</b>
GRO	ND	0.050		mg/L	1	4/19/2007 05:09 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070420A	QC Batch: Q07VW0075				PrepDate:	Analyst: <b>TT</b>
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/20/2007 05:19 PM
2-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
4-Chlorotoluene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
Benzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM
Bromobenzene	ND	0.50		µg/L	1	4/20/2007 05:19 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 24-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091402-012

**Client Sample ID:** GW-12-28  
**Collection Date:** 4/16/2007 10:00:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID:	MS2_070420A	QC Batch:	Q07VW0075	PrepDate:	Analyst:	TT
Bromodichloromethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Bromoform	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Bromomethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Chlorobenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Chloroethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Chloroform	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Chloromethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Dibromochloromethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Dibromomethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Ethylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Isopropylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
m,p-Xylene	ND	1.0	µg/L	1	4/20/2007 05:19 PM	
Methylene chloride	ND	1.0	µg/L	1	4/20/2007 05:19 PM	
MTBE	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
n-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
n-Propylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Naphthalene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
o-Xylene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Styrene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Tetrachloroethene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Toluene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Trichloroethene	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/20/2007 05:19 PM	
Vinyl chloride	ND	0.50	µg/L	1	4/20/2007 05:19 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8015\_S\_DM LL**

Sample ID: <b>MB-35270</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM L</b> Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>							
Client ID: <b>PBS</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178974</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									

Sample ID: <b>LCS-35270</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM L</b> Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178975</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	17.671	1.0	33.00	0	53.5	28	126				

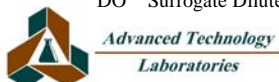
Sample ID: <b>091398-006AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM L</b> Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178976</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	16.702	1.0	33.00	0	50.6	12	113				

Sample ID: <b>091398-006AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM L</b> Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178977</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	16.114	1.0	33.00	0	48.8	12	113	16.70	3.58	30	

Sample ID: <b>MB-35270</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM L</b> Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>							
Client ID: <b>PBS</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>	Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179211</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

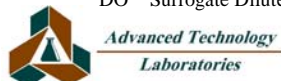
## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_S\_DM LL

Sample ID: <b>LCS-35270</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/20/2007</b>	RunNo: <b>78146</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>35270</b>	TestNo: <b>EPA 8015B(M EPA 3550B</b>		Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179212</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	23.912	1.0	33.00	0	72.5	28	126				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_GAS**

Sample ID: <b>E042007MB2MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78148</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E07VS114</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179030</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.819	1.0	5.000	0.1970	92.4	22	139				

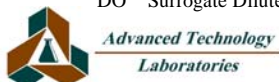
Sample ID: <b>E042007MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78148</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E07VS114</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179031</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.682	1.0	5.000	0.1970	89.7	22	139	4.819	2.88	30	

Sample ID: <b>E042007MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78148</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E07VS114</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179032</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.197	1.0									

Sample ID: <b>E042007LCS2</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78148</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E07VS114</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179040</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.186	1.0	5.000	0.1970	79.8	74	112				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
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**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM\_LL**

Sample ID: <b>LCS-35276</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179555</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.711	0.050	1.000	0	71.1	44	123				

Sample ID: <b>MB-35276</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179556</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
ORO	ND	0.050									

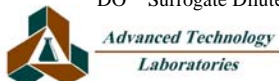
Sample ID: <b>MB-35276MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179557</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.584	0.050	1.000	0	58.4	44	123				

Sample ID: <b>MB-35276MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>							
Client ID: <b>ZZZZZ</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179558</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.669	0.050	1.000	0	66.9	44	123				

Sample ID: <b>LCS-35276</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180072</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.726	0.050	1.000	0	72.6	44	123				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_W\_DM\_LL

Sample ID: <b>MB-35276</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b>	Units: <b>mg/L</b>	Prep Date: <b>4/23/2007</b>	RunNo: <b>78178</b>						
Client ID: <b>PBW</b>	Batch ID: <b>35276</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>		Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180073</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
ORO	ND	0.050									

### Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_GP LL**

Sample ID: <b>I041907LCS1</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78049</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>I07VW092</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177134</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.078	0.050	1.000	0	108	71	120				

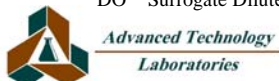
Sample ID: <b>I041907MB2MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78049</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>I07VW092</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177135</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.947	0.050	1.000	0	94.7	71	120				

Sample ID: <b>I041907MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78049</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>I07VW092</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177136</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.870	0.050	1.000	0	87.0	71	120	0.9470	8.48	30	

Sample ID: <b>I041907MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78049</b>						
Client ID: <b>PBW</b>	Batch ID: <b>I07VW092</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/19/2007</b>	SeqNo: <b>1177137</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

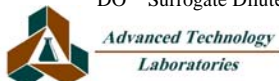
Sample ID: <b>K042007LCS1</b>	SampType: <b>LCS</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178183</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	104.250	5.0	100.0	0	104	72	125				
Benzene	104.950	5.0	100.0	0	105	80	119				
Chlorobenzene	96.300	5.0	100.0	0	96.3	78	119				
MTBE	104.360	5.0	100.0	0	104	58	138				
Toluene	103.190	5.0	100.0	0	103	73	121				
Trichloroethene	98.830	5.0	100.0	0	98.8	76	120				
Surr: 1,2-Dichloroethane-d4	42.590		50.00		85.2	41	149				
Surr: 4-Bromofluorobenzene	41.280		50.00		82.6	57	137				
Surr: Dibromofluoromethane	43.460		50.00		86.9	51	137				
Surr: Toluene-d8	45.110		50.00		90.2	68	127				

Sample ID: <b>091350-005AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178184</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	98.970	5.0	100.0	0	99.0	49	144				
Benzene	99.190	5.0	100.0	0	99.2	64	128				
Chlorobenzene	92.170	5.0	100.0	0	92.2	44	145				
MTBE	101.320	5.0	100.0	0	101	48	147				
Toluene	98.620	5.0	100.0	0	98.6	51	137				
Trichloroethene	93.960	5.0	100.0	0	94.0	52	141				

Sample ID: <b>091350-005AMDS</b>	SampType: <b>MSD</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178185</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	99.710	5.0	100.0	0	99.7	49	144	98.97	0.745	30	
Benzene	103.000	5.0	100.0	0	103	64	128	99.19	3.77	30	
Chlorobenzene	94.770	5.0	100.0	0	94.8	44	145	92.17	2.78	30	
MTBE	101.180	5.0	100.0	0	101	48	147	101.3	0.138	30	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |





**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

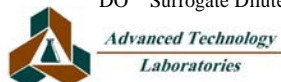
**TestCode: 8260\_S**

Sample ID: <b>091350-005AMDS</b>	SampType: <b>MSD</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178185</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	101.080	5.0	100.0	0	101	51	137	98.62	2.46	30	
Trichloroethene	97.180	5.0	100.0	0	97.2	52	141	93.96	3.37	30	

Sample ID: <b>K042007MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>PBS</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178186</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

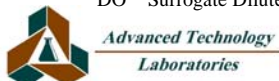
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

Sample ID: <b>K042007MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>PBS</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178186</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

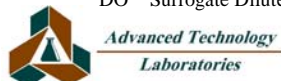
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

Sample ID: <b>K042007MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78097</b>						
Client ID: <b>PBS</b>	Batch ID: <b>K07VS064</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1178186</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

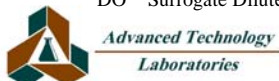
Sample ID: <b>A070423LCS</b>		SampType: <b>LCS</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>78183</b>		
Client ID: <b>LCSW</b>		Batch ID: <b>A07VW103</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>		SeqNo: <b>1179639</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	21.660	0.50	20.00	0	108	74	132					
Benzene	19.620	0.50	20.00	0	98.1	86	116					
Chlorobenzene	19.770	0.50	20.00	0	98.8	82	115					
MTBE	20.310	0.50	20.00	0	102	71	129					
Toluene	20.150	0.50	20.00	0	101	88	115					
Trichloroethene	18.830	0.50	20.00	0	94.2	86	118					
Surr: 1,2-Dichloroethane-d4	22.820		25.00		91.3	67	118					
Surr: 4-Bromofluorobenzene	22.770		25.00		91.1	81	119					
Surr: Dibromofluoromethane	21.470		25.00		85.9	77	112					
Surr: Toluene-d8	22.490		25.00		90.0	82	116					

Sample ID: <b>A070423MB3MS</b>		SampType: <b>MS</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>78183</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>A07VW103</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>		SeqNo: <b>1179640</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	20.560	0.50	20.00	0	103	74	132					
Benzene	19.330	0.50	20.00	0	96.7	86	116					
Chlorobenzene	19.870	0.50	20.00	0	99.4	82	115					
MTBE	21.370	0.50	20.00	0	107	71	129					
Toluene	19.930	0.50	20.00	0	99.7	88	115					
Trichloroethene	18.310	0.50	20.00	0	91.6	86	118					

Sample ID: <b>A070423MB3MSD</b>		SampType: <b>MSD</b>		TestCode: <b>8260_WP_LL</b>		Units: <b>µg/L</b>		Prep Date:		RunNo: <b>78183</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>A07VW103</b>		TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>		SeqNo: <b>1179641</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	19.740	0.50	20.00	0	98.7	74	132	20.56	4.07	30		
Benzene	18.780	0.50	20.00	0	93.9	86	116	19.33	2.89	30		
Chlorobenzene	19.010	0.50	20.00	0	95.1	82	115	19.87	4.42	30		
MTBE	20.520	0.50	20.00	0	103	71	129	21.37	4.06	30		

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

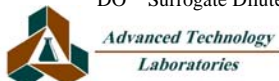
**TestCode: 8260\_WP\_LL**

Sample ID: <b>A070423MB3MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78183</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>A07VW103</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179641</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	19.180	0.50	20.00	0	95.9	88	115	19.93	3.84	30	
Trichloroethene	17.820	0.50	20.00	0	89.1	86	118	18.31	2.71	30	

Sample ID: <b>A070423MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78183</b>						
Client ID: <b>PBW</b>	Batch ID: <b>A07VW103</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179642</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

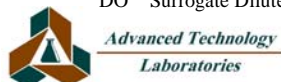
**TestCode:** 8260\_WP\_LL

Sample ID: <b>A070423MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78183</b>
Client ID: <b>PBW</b>	Batch ID: <b>A07VW103</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179642</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

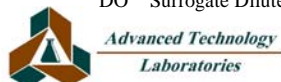
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

Sample ID: <b>A070423MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78183</b>						
Client ID: <b>PBW</b>	Batch ID: <b>A07VW103</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/23/2007</b>	SeqNo: <b>1179642</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

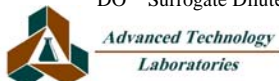
Sample ID: <b>Q042007LC2</b>	SampType: <b>LCS</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179058</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.890	0.50	20.00	0	104	74	132				
Benzene	20.730	0.50	20.00	0	104	86	116				
Chlorobenzene	19.930	0.50	20.00	0	99.7	82	115				
MTBE	21.010	0.50	20.00	0	105	71	129				
Toluene	19.980	0.50	20.00	0	99.9	88	115				
Trichloroethene	20.400	0.50	20.00	0	102	86	118				
Surr: 1,2-Dichloroethane-d4	19.890		25.00		79.6	67	118				
Surr: 4-Bromofluorobenzene	21.780		25.00		87.1	81	119				
Surr: Dibromofluoromethane	22.330		25.00		89.3	77	112				
Surr: Toluene-d8	23.310		25.00		93.2	82	116				

Sample ID: <b>Q042007MB2MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179059</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.490	0.50	20.00	0	102	74	132				
Benzene	20.530	0.50	20.00	0	103	86	116				
Chlorobenzene	19.810	0.50	20.00	0	99.0	82	115				
MTBE	21.280	0.50	20.00	0	106	71	129				
Toluene	19.680	0.50	20.00	0	98.4	88	115				
Trichloroethene	19.710	0.50	20.00	0	98.6	86	118				

Sample ID: <b>Q042007MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179060</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.500	0.50	20.00	0	103	74	132	20.49	0.0488	30	
Benzene	20.890	0.50	20.00	0	104	86	116	20.53	1.74	30	
Chlorobenzene	19.870	0.50	20.00	0	99.4	82	115	19.81	0.302	30	
MTBE	21.390	0.50	20.00	0	107	71	129	21.28	0.516	30	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |





**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

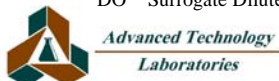
**TestCode: 8260\_WP\_LL**

Sample ID: <b>Q042007MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179060</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	20.070	0.50	20.00	0	100	88	115	19.68	1.96	30	
Trichloroethene	20.360	0.50	20.00	0	102	86	118	19.71	3.24	30	

Sample ID: <b>Q042007MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>PBW</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179061</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

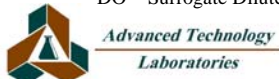
## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260\_WP\_LL

Sample ID: <b>Q042007MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>PBW</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179061</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091402  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260\_WP\_LL

Sample ID: <b>Q042007MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78150</b>						
Client ID: <b>PBW</b>	Batch ID: <b>Q07VW0075</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/20/2007</b>	SeqNo: <b>1179061</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									

### Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		



*Advanced Technology  
Laboratories*

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# CHAIN OF CUSTODY RECORD



**Advanced Technology  
Laboratories**

3275 Walnut Avenue  
Signal Hill, CA 90755  
(562) 989-4045 • Fax (562) 989-4040

## FOR LABORATORY USE ONLY:

P.O.#: \_\_\_\_\_  
Logged By: JA Date: 4/13/07

Method of Transport  
Client   
ATL   
CA OverN   
FEDEX   
Other: \_\_\_\_\_

Sample Condition Upon Receipt  
1. CHILLED S-4 Y  N  4. SEALED Y  N   
2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Client: Ninyo and Moore Address: 1956 Webster St, #400 TEL: (510) 633-5640  
Attn: Blair Bridges City: Oakland State: CA Zip Code: 94612 FAX: (510) 633-5646

Project Name: Quality Tune Ups (QTU) Project #: 401007003 Sampler: Blair Bridges (Signature)

Relinquished by: (Signature and Printed Name) Blair Bridges Date: 4/17/07 Time: 3:25p Received by: (Signature and Printed Name) Jeffrey Date: 4/17/07 Time: 3:25p

Relinquished by: (Signature and Printed Name) Jeffrey Date: 4/17/07 Time: 5:30 Received by: (Signature and Printed Name) Callen Overnigh Date: 4/17/07 Time: 5:30p

Relinquished by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature and Printed Name) Marsal Date: 4/13/07 Time: 8:25

I hereby authorize ATL to perform the work indicated below:  
Project Mgr /Submitter:  
Blair Bridges 4/16/07  
Print Name Date  
R. Bridges  
Signature

Send Report To:  
Attn: \_\_\_\_\_  
Co: See at  
Address: above  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Bill To:  
Attn: same  
Co: as  
Address: above  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Special Instructions/Comments:  
Please analyze for MTBE along with VOCs

**Sample/Records - Archival & Disposal**  
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
• Sample : \$2.00 / sample / mo (after 45 days)  
• Records : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				TAT	Container(s)		PRESERVATION	QA/QC
	SOIL	WATER	GROUND WATER	WASTEWATER		#	Type		
8081A (Pesticides)									RTNE <input type="checkbox"/>
8082 (PCB)									CT <input type="checkbox"/>
8080B (Volatiles)									SWRCB <input type="checkbox"/>
8270C (BVA)									Logcode _____
8010B (Total Metal)									OTHER _____
8015B (GRO) / 8020 (BTEX)									REMARKS
8021 (BTEX)									
TITLE 22 / CAM 17 (8010 / 700)									
<u>8015M TPH-G</u>									
<u>8015M TPH-D/MO</u>									

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	
		<u>091402-001</u>	<u>NM-13-13</u>	<u>4/16/07</u>		
		<u>2</u>	<u>NM-13-18</u>			
		<u>3</u>	<u>GW-13-18</u>		<u>1710</u>	
		<u>4</u>	<u>NM-14-13</u>			
		<u>5</u>	<u>NM-14-18</u>			
		<u>6</u>	<u>GW-14-18</u>		<u>1900</u>	
		<u>7</u>	<u>GW-13-31</u>		<u>1730</u>	
		<u>8</u>	<u>GW-14-30</u>		<u>1940</u>	
		<u>9</u>	<u>NM-12-12</u>			
		<u>10</u>	<u>NM-12-17</u>			

• TAT starts 8 a.m. following day if samples received after 3 p.m.  
TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays  
Preservatives: H=Hcl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>  
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Write with report. Yellow to folder. Pink to submitter.

All VOC's Preserved with HCL No preservative in Ambers.



April 30, 2007



Blair Bridges  
Ninyo & Moore  
1956 Webster Street, Suite 400  
Oakland, CA 94612  
TEL: (510) 633-5640  
FAX: (510) 633-5646

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
Arizona: AZ0689  
CSDLAC No.: 10196  
Workorder No.: 091532

RE: Quality Tune Ups (QTU), 401007003

Attention: Blair Bridges

Enclosed are the results for sample(s) received on April 21, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-001

**Client Sample ID:** NM-18-13  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3550B**

**EPA 8015B(M)**

RunID: GC7_BACK_070427A	QC Batch: 35483				PrepDate: 4/27/2007	Analyst: <b>CBR</b>
DRO	ND	1.0		mg/Kg	1	4/27/2007 12:46 PM
ORO	1.6	1.0		mg/Kg	1	4/27/2007 12:46 PM
Surr: p-Terphenyl	74.6	27-110		%REC	1	4/27/2007 12:46 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC2_070425B	QC Batch: E07VS120				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/25/2007 11:36 PM
Surr: Bromofluorobenzene (FID)	89.1	42-149		%REC	1	4/25/2007 11:36 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5_070426A	QC Batch: T07VS084				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/26/2007 12:49 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/26/2007 12:49 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out  
E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



Advanced Technology  
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-001

**Client Sample ID:** NM-18-13  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS5_070426A	QC Batch:	T07VS084	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Bromoform	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Chloroform	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/26/2007 12:49 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
MTBE	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Styrene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Toluene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/26/2007 12:49 PM	
Surr: 1,2-Dichloroethane-d4	83.8	41-149	%REC	1	4/26/2007 12:49 PM	
Surr: 4-Bromofluorobenzene	90.4	57-137	%REC	1	4/26/2007 12:49 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040



# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-001

**Client Sample ID:** NM-18-13  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS5_070426A	QC Batch: T07VS084	PrepDate:	Analyst: <b>DMP</b>
Surr: Dibromofluoromethane	88.7	51-137	%REC 1 4/26/2007 12:49 PM
Surr: Toluene-d8	96.6	68-127	%REC 1 4/26/2007 12:49 PM

---

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-002

**Client Sample ID:** NM-18-18  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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### DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

#### EPA 3550B

#### EPA 8015B(M)

RunID: GC7_BACK_070427A	QC Batch: 35483				PrepDate: 4/27/2007	Analyst: <b>CBR</b>
DRO	1.3	1.0		mg/Kg	1	4/27/2007 01:12 PM
ORO	2.7	1.0		mg/Kg	1	4/27/2007 01:12 PM
Surr: p-Terphenyl	81.9	27-110		%REC	1	4/27/2007 01:12 PM

### GASOLINE RANGE ORGANICS BY GC/FID

#### EPA 8015B(M)

RunID: GC2_070425B	QC Batch: E07VS120				PrepDate:	Analyst: <b>ML</b>
GRO	ND	1.0		mg/Kg	1	4/26/2007 12:48 AM
Surr: Bromofluorobenzene (FID)	90.1	42-149		%REC	1	4/26/2007 12:48 AM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

#### EPA 8260B

RunID: MS5_070426A	QC Batch: T07VS084				PrepDate:	Analyst: <b>DMP</b>
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/26/2007 01:06 PM
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/26/2007 01:06 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



Advanced Technology  
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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-002

**Client Sample ID:** NM-18-18  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS5_070426A	QC Batch:	T07VS084	PrepDate:	Analyst:	DMP
Benzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Bromobenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Bromodichloromethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Bromoform	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Bromomethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Carbon tetrachloride	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Chlorobenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Chloroethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Chloroform	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Chloromethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Dibromochloromethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Dibromomethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Ethyl Tert-butyl ether	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Ethylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Hexachlorobutadiene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Isopropylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
m,p-Xylene	ND	10	µg/Kg	1	4/26/2007 01:06 PM	
Methylene chloride	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
MTBE	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
n-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
n-Propylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Naphthalene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
o-Xylene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Styrene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Tetrachloroethene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Toluene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Trichloroethene	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Vinyl chloride	ND	5.0	µg/Kg	1	4/26/2007 01:06 PM	
Surr: 1,2-Dichloroethane-d4	88.5	41-149	%REC	1	4/26/2007 01:06 PM	
Surr: 4-Bromofluorobenzene	89.9	57-137	%REC	1	4/26/2007 01:06 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**ANALYTICAL RESULTS**

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-002

**Client Sample ID:** NM-18-18  
**Collection Date:** 4/19/2007  
**Matrix:** SOIL

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS5\_070426A      QC Batch: T07VS084      PrepDate:      Analyst: **DMP**  
Surr: Dibromofluoromethane      90.6      51-137      %REC      1      4/26/2007 01:06 PM  
Surr: Toluene-d8      95.7      68-127      %REC      1      4/26/2007 01:06 PM

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**Qualifiers:** B Analyte detected in the associated Method Blank      E Value above quantitation range  
H Holding times for preparation or analysis exceeded      ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference      Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**Advanced Technology Laboratories**

**ANALYTICAL RESULTS**

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-003

**Client Sample ID:** GW-18-18  
**Collection Date:** 4/19/2007 1:45:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID**

**EPA 3510C**

**EPA 8015B(M)**

RunID: GC7_BACK_070426A	QC Batch: 35394				PrepDate: 4/25/2007	Analyst: CBR
DRO	0.093	0.050		mg/L	1	4/26/2007 12:48 PM
ORO	0.12	0.050		mg/L	1	4/26/2007 12:48 PM
Surr: p-Terphenyl	87.5	24-115		%REC	1	4/26/2007 12:48 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC6_070424A	QC Batch: I07VW095				PrepDate:	Analyst: EA
GRO	ND	0.050		mg/L	1	4/24/2007 08:25 PM
Surr: Bromofluorobenzene (FID)	120	70-129		%REC	1	4/24/2007 08:25 PM

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS11_070425B	QC Batch: A07VW106				PrepDate:	Analyst: TT
1,1,1,2-Tetrachloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1,1-Trichloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1,2,2-Tetrachloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1,2-Trichloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1-Dichloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1-Dichloroethene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,1-Dichloropropene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2,3-Trichlorobenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2,3-Trichloropropane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2,4-Trichlorobenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2-Dibromo-3-chloropropane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2-Dibromoethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2-Dichlorobenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2-Dichloroethane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,2-Dichloropropane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,3-Dichlorobenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,3-Dichloropropane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
1,4-Dichlorobenzene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
2,2-Dichloropropane	ND	0.50		µg/L	1	4/26/2007 03:59 AM
2-Chlorotoluene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
4-Chlorotoluene	ND	0.50		µg/L	1	4/26/2007 03:59 AM
4-Isopropyltoluene	ND	0.50		µg/L	1	4/26/2007 03:59 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-003

**Client Sample ID:** GW-18-18  
**Collection Date:** 4/19/2007 1:45:00 PM  
**Matrix:** GROUND WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID:	MS11_070425B	QC Batch:	A07VW106	PrepDate:	Analyst:	TT
Benzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Bromobenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Bromodichloromethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Bromoform	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Bromomethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Carbon tetrachloride	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Chlorobenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Chloroethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Chloroform	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Chloromethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
cis-1,2-Dichloroethene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
cis-1,3-Dichloropropene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Dibromochloromethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Dibromomethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Dichlorodifluoromethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Ethylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Hexachlorobutadiene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Isopropylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
m,p-Xylene	ND	1.0	µg/L	1	4/26/2007 03:59 AM	
Methylene chloride	ND	1.0	µg/L	1	4/26/2007 03:59 AM	
MTBE	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
n-Butylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
n-Propylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Naphthalene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
o-Xylene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
sec-Butylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Styrene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
tert-Butylbenzene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Tetrachloroethene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Toluene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
trans-1,2-Dichloroethene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Trichloroethene	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Trichlorofluoromethane	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Vinyl chloride	ND	0.50	µg/L	1	4/26/2007 03:59 AM	
Surr: 1,2-Dichloroethane-d4	87.0	67-118	%REC	1	4/26/2007 03:59 AM	
Surr: 4-Bromofluorobenzene	88.5	81-119	%REC	1	4/26/2007 03:59 AM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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# Advanced Technology Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Apr-07

**CLIENT:** Ninyo & Moore  
**Lab Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003  
**Lab ID:** 091532-003

**Client Sample ID:** GW-18-18  
**Collection Date:** 4/19/2007 1:45:00 PM  
**Matrix:** GROUND WATER

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

### EPA 8260B

RunID: MS11_070425B	QC Batch: A07VW106	PrepDate:	Analyst: TT	
Surr: Dibromofluoromethane	81.6	77-112	%REC 1	4/26/2007 03:59 AM
Surr: Toluene-d8	84.6	82-116	%REC 1	4/26/2007 03:59 AM

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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

**ANALYTICAL QC SUMMARY REPORT**

**TestCode: 8015\_S\_DM LL**

Sample ID: <b>MB-35483</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/27/2007</b>	RunNo: <b>78499</b>						
Client ID: <b>PBS</b>	Batch ID: <b>35483</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185486</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0									
ORO	ND	1.0									
Surr: p-Terphenyl	2.360		2.670		88.4	27	110				

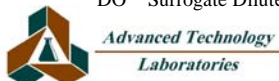
Sample ID: <b>LCS-35483</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/27/2007</b>	RunNo: <b>78499</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>35483</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185487</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	22.787	1.0	33.00	0	69.1	28	126				
Surr: p-Terphenyl	2.475		2.670		92.7	27	110				

Sample ID: <b>091532-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/27/2007</b>	RunNo: <b>78499</b>						
Client ID: <b>NM-18-18</b>	Batch ID: <b>35483</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185488</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	18.674	1.0	33.00	1.275	52.7	12	113				
Surr: p-Terphenyl	2.071		2.670		77.6	27	110				

Sample ID: <b>091532-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>4/27/2007</b>	RunNo: <b>78499</b>						
Client ID: <b>NM-18-18</b>	Batch ID: <b>35483</b>	TestNo: <b>EPA 8015B(M EPA 3550B)</b>		Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185489</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	19.801	1.0	33.00	1.275	56.1	12	113	18.67	5.86	30	
Surr: p-Terphenyl	2.165		2.670		81.1	27	110		0	0	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference





**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_GAS**

Sample ID: <b>E042507MB4</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78360</b>						
Client ID: <b>PBS</b>	Batch ID: <b>E07VS120</b>	TestNo: <b>EPA 8015B(M)</b>		Analysis Date: <b>4/25/2007</b>	SeqNo: <b>1184349</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	92.279		100.0		92.3	42	149				

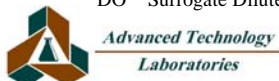
Sample ID: <b>091532-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78360</b>						
Client ID: <b>NM-18-13</b>	Batch ID: <b>E07VS120</b>	TestNo: <b>EPA 8015B(M)</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184351</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.846	1.0	5.000	0.2800	71.3	22	139				
Surr: Bromofluorobenzene (FID)	100.255		100.0		100	42	149				

Sample ID: <b>091532-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78360</b>						
Client ID: <b>NM-18-13</b>	Batch ID: <b>E07VS120</b>	TestNo: <b>EPA 8015B(M)</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184352</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.744	1.0	5.000	0.2800	69.3	22	139	3.846	2.69	30	
Surr: Bromofluorobenzene (FID)	92.678		100.0		92.7	42	149		0	30	

Sample ID: <b>E042507LCS3</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_GAS</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>78360</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>E07VS120</b>	TestNo: <b>EPA 8015B(M)</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184358</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.759	1.0	5.000	0	75.2	74	112				
Surr: Bromofluorobenzene (FID)	89.597		100.0		89.6	42	149				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM\_LL**

Sample ID: <b>MB-35394</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184557</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.073		0.08000		91.5	24	115				

Sample ID: <b>LCS-35394</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184558</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.710	0.050	1.000	0	71.0	44	123				
Surr: p-Terphenyl	0.075		0.08000		93.8	24	115				

Sample ID: <b>MB-35394MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184559</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.751	0.050	1.000	0	75.1	44	123				
Surr: p-Terphenyl	0.078		0.08000		98.1	24	115				

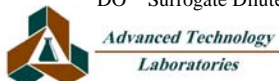
Sample ID: <b>MB-35394MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184560</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

DRO	0.757	0.050	1.000	0	75.7	44	123	0.7506	0.899	30	
Surr: p-Terphenyl	0.082		0.08000		103	24	115		0	0	

Sample ID: <b>LCS-35394</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184740</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DM\_LL**

Sample ID: <b>LCS-35394</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184740</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.729	0.050	1.000	0	72.9	44	123				
Surr: p-Terphenyl	0.075		0.08000		94.0	24	115				

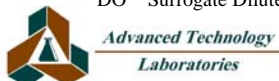
Sample ID: <b>MB-35394</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>	Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184741</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.075		0.08000		93.7	24	115				

Sample ID: <b>MB-35394</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>PBW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>	Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185512</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	0.050									
ORO	ND	0.050									
Surr: p-Terphenyl	0.071		0.08000		88.5	24	115				

Sample ID: <b>LCS-35394</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_DM_</b> Units: <b>mg/L</b>	Prep Date: <b>4/25/2007</b>	RunNo: <b>78454</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>35394</b>	TestNo: <b>EPA 8015B(M EPA 3510C)</b>	Analysis Date: <b>4/27/2007</b>	SeqNo: <b>1185513</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	0.749	0.050	1.000	0	74.9	44	123				
Surr: p-Terphenyl	0.072		0.08000		89.5	24	115				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_GP LL**

Sample ID: <b>I042407LCS2</b>	SampType: <b>LCS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78218</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>I07VW095</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180461</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.044	0.050	1.000	0	104	71	120				
Surr: Bromofluorobenzene (FID)	94.913		100.0		94.9	70	129				

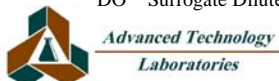
Sample ID: <b>I042407MB2MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78218</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>I07VW095</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180462</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.879	0.050	1.000	0	87.9	71	120				
Surr: Bromofluorobenzene (FID)	119.337		100.0		119	70	129				

Sample ID: <b>I042407MB2MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78218</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>I07VW095</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180463</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.851	0.050	1.000	0	85.1	71	120	0.8790	3.24	30	
Surr: Bromofluorobenzene (FID)	107.948		100.0		108	70	129		0	0	

Sample ID: <b>I042407MB2</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_W_GP</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>78218</b>						
Client ID: <b>PBW</b>	Batch ID: <b>I07VW095</b>	TestNo: <b>EPA 8015B(M)</b>	Analysis Date: <b>4/24/2007</b>	SeqNo: <b>1180464</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.050									
Surr: Bromofluorobenzene (FID)	111.558		100.0		112	70	129				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

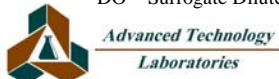
Sample ID: <b>T042607LCS1</b>		SampType: <b>LCS</b>		TestCode: <b>8260_S</b>		Units: <b>µg/Kg</b>		Prep Date:		RunNo: <b>78373</b>		
Client ID: <b>LCSS</b>		Batch ID: <b>T07VS084</b>		TestNo: <b>EPA 8260B</b>				Analysis Date: <b>4/26/2007</b>		SeqNo: <b>1183999</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	110.110	5.0	100.0	0	110	72	125					
Benzene	108.910	5.0	100.0	0	109	80	119					
Chlorobenzene	102.370	5.0	100.0	0	102	78	119					
MTBE	99.190	5.0	100.0	0	99.2	58	138					
Toluene	104.470	5.0	100.0	0	104	73	121					
Trichloroethene	104.830	5.0	100.0	0	105	76	120					
Surr: 1,2-Dichloroethane-d4	41.630		50.00		83.3	41	149					
Surr: 4-Bromofluorobenzene	45.110		50.00		90.2	57	137					
Surr: Dibromofluoromethane	44.590		50.00		89.2	51	137					
Surr: Toluene-d8	48.950		50.00		97.9	68	127					

Sample ID: <b>091568-001CMS</b>		SampType: <b>MS</b>		TestCode: <b>8260_S</b>		Units: <b>µg/Kg</b>		Prep Date:		RunNo: <b>78373</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>T07VS084</b>		TestNo: <b>EPA 8260B</b>				Analysis Date: <b>4/26/2007</b>		SeqNo: <b>1184000</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1-Dichloroethene	100.530	5.0	100.0	0	101	49	144					
Benzene	100.750	5.0	100.0	0	101	64	128					
Chlorobenzene	91.940	5.0	100.0	0	91.9	44	145					
MTBE	108.080	5.0	100.0	0	108	48	147					
Toluene	94.870	5.0	100.0	0	94.9	51	137					
Trichloroethene	94.670	5.0	100.0	0	94.7	52	141					
Surr: 1,2-Dichloroethane-d4	45.330		50.00		90.7	41	149					
Surr: 4-Bromofluorobenzene	46.260		50.00		92.5	57	137					
Surr: Dibromofluoromethane	47.630		50.00		95.3	51	137					
Surr: Toluene-d8	49.320		50.00		98.6	68	127					

Sample ID: <b>091568-001DMSD</b>		SampType: <b>MSD</b>		TestCode: <b>8260_S</b>		Units: <b>µg/Kg</b>		Prep Date:		RunNo: <b>78373</b>		
Client ID: <b>ZZZZZ</b>		Batch ID: <b>T07VS084</b>		TestNo: <b>EPA 8260B</b>				Analysis Date: <b>4/26/2007</b>		SeqNo: <b>1184001</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

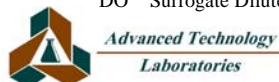
**TestCode: 8260\_S**

Sample ID: <b>091568-001DMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78373</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>T07VS084</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184001</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	101.720	5.0	100.0	0	102	49	144	100.5	1.18	30	
Benzene	101.860	5.0	100.0	0	102	64	128	100.8	1.10	30	
Chlorobenzene	94.330	5.0	100.0	0	94.3	44	145	91.94	2.57	30	
MTBE	102.900	5.0	100.0	0	103	48	147	108.1	4.91	30	
Toluene	97.360	5.0	100.0	0	97.4	51	137	94.87	2.59	30	
Trichloroethene	96.170	5.0	100.0	0	96.2	52	141	94.67	1.57	30	
Surr: 1,2-Dichloroethane-d4	43.180		50.00		86.4	41	149		0	30	
Surr: 4-Bromofluorobenzene	45.930		50.00		91.9	57	137		0	30	
Surr: Dibromofluoromethane	45.880		50.00		91.8	51	137		0	30	
Surr: Toluene-d8	49.110		50.00		98.2	68	127		0	30	

Sample ID: <b>T042607MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78373</b>						
Client ID: <b>PBS</b>	Batch ID: <b>T07VS084</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184002</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

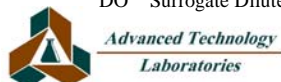
**TestCode: 8260\_S**

Sample ID: <b>T042607MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78373</b>						
Client ID: <b>PBS</b>	Batch ID: <b>T07VS084</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184002</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethyl Tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	10									
Methylene chloride	ND	5.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

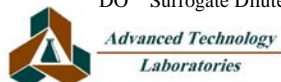
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_S**

Sample ID: <b>T042607MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_S</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>78373</b>						
Client ID: <b>PBS</b>	Batch ID: <b>T07VS084</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1184002</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	45.850		50.00		91.7	41	149				
Surr: 4-Bromofluorobenzene	45.520		50.00		91.0	57	137				
Surr: Dibromofluoromethane	46.530		50.00		93.1	51	137				
Surr: Toluene-d8	50.490		50.00		101	68	127				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |





**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

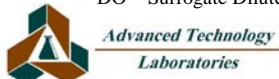
Sample ID: <b>A042507LC2</b>	SampType: <b>LCS</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/25/2007</b>	SeqNo: <b>1183362</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20.730	0.50	20.00	0	104	74	132				
Benzene	19.640	0.50	20.00	0	98.2	86	116				
Chlorobenzene	19.470	0.50	20.00	0	97.4	82	115				
MTBE	20.130	0.50	20.00	0	101	71	129				
Toluene	20.040	0.50	20.00	0	100	88	115				
Trichloroethene	19.130	0.50	20.00	0	95.7	86	118				
Surr: 1,2-Dichloroethane-d4	21.580		25.00		86.3	67	118				
Surr: 4-Bromofluorobenzene	22.610		25.00		90.4	81	119				
Surr: Dibromofluoromethane	20.250		25.00		81.0	77	112				
Surr: Toluene-d8	21.640		25.00		86.6	82	116				

Sample ID: <b>A042507MB6MS</b>	SampType: <b>MS</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/25/2007</b>	SeqNo: <b>1183363</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.280	0.50	20.00	0	106	74	132				
Benzene	19.930	0.50	20.00	0	99.7	86	116				
Chlorobenzene	19.790	0.50	20.00	0	99.0	82	115				
MTBE	20.780	0.50	20.00	0	104	71	129				
Toluene	20.210	0.50	20.00	0	101	88	115				
Trichloroethene	19.570	0.50	20.00	0	97.9	86	118				
Surr: 1,2-Dichloroethane-d4	22.390		25.00		89.6	67	118				
Surr: 4-Bromofluorobenzene	22.820		25.00		91.3	81	119				
Surr: Dibromofluoromethane	20.680		25.00		82.7	77	112				
Surr: Toluene-d8	21.730		25.00		86.9	82	116				

Sample ID: <b>A042507MB6MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/25/2007</b>	SeqNo: <b>1183364</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
| ND Not Detected at the Reporting Limit            | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

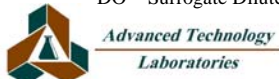
**TestCode: 8260\_WP\_LL**

Sample ID: <b>A042507MB6MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/25/2007</b>	SeqNo: <b>1183364</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21.220	0.50	20.00	0	106	74	132	21.28	0.282	30	
Benzene	19.870	0.50	20.00	0	99.4	86	116	19.93	0.302	30	
Chlorobenzene	19.920	0.50	20.00	0	99.6	82	115	19.79	0.655	30	
MTBE	20.580	0.50	20.00	0	103	71	129	20.78	0.967	30	
Toluene	20.280	0.50	20.00	0	101	88	115	20.21	0.346	30	
Trichloroethene	18.990	0.50	20.00	0	95.0	86	118	19.57	3.01	30	
Surr: 1,2-Dichloroethane-d4	21.850		25.00		87.4	67	118		0	30	
Surr: 4-Bromofluorobenzene	22.690		25.00		90.8	81	119		0	30	
Surr: Dibromofluoromethane	20.490		25.00		82.0	77	112		0	30	
Surr: Toluene-d8	21.890		25.00		87.6	82	116		0	30	

Sample ID: <b>A042507MB6</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>PBW</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1183365</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,1,1,2,2-Tetrachloroethane	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
1,1-Dichloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
1,1-Dichloropropene	ND	0.50									
1,2,3-Trichlorobenzene	ND	0.50									
1,2,3-Trichloropropane	ND	0.50									
1,2,4-Trichlorobenzene	ND	0.50									
1,2,4-Trimethylbenzene	ND	0.50									
1,2-Dibromo-3-chloropropane	ND	0.50									
1,2-Dibromoethane	ND	0.50									
1,2-Dichlorobenzene	ND	0.50									
1,2-Dichloroethane	ND	0.50									

**Qualifiers:**

- |   |  |  |
|---|--|--|
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

## ANALYTICAL QC SUMMARY REPORT

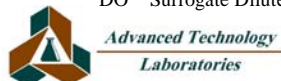
**TestCode: 8260\_WP\_LL**

Sample ID: <b>A042507MB6</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>
Client ID: <b>PBW</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1183365</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.50									
1,3,5-Trimethylbenzene	ND	0.50									
1,3-Dichlorobenzene	ND	0.50									
1,3-Dichloropropane	ND	0.50									
1,4-Dichlorobenzene	ND	0.50									
2,2-Dichloropropane	ND	0.50									
2-Chlorotoluene	ND	0.50									
4-Chlorotoluene	ND	0.50									
4-Isopropyltoluene	ND	0.50									
Benzene	ND	0.50									
Bromobenzene	ND	0.50									
Bromodichloromethane	ND	0.50									
Bromoform	ND	0.50									
Bromomethane	ND	0.50									
Carbon tetrachloride	ND	0.50									
Chlorobenzene	ND	0.50									
Chloroethane	ND	0.50									
Chloroform	ND	0.50									
Chloromethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
cis-1,3-Dichloropropene	ND	0.50									
Dibromochloromethane	ND	0.50									
Dibromomethane	ND	0.50									
Dichlorodifluoromethane	ND	0.50									
Ethyl tert-butyl ether	ND	0.50									
Ethylbenzene	ND	0.50									
Hexachlorobutadiene	ND	0.50									
Isopropylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
Methylene chloride	ND	1.0									

**Qualifiers:**

- |   |  |  |
|---|--|--|
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| DO Surrogate Diluted Out                          | Calculations are based on raw values   |  |



**CLIENT:** Ninyo & Moore  
**Work Order:** 091532  
**Project:** Quality Tune Ups (QTU), 401007003

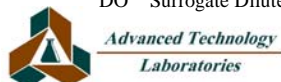
## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260\_WP\_LL**

Sample ID: <b>A042507MB6</b>	SampType: <b>MBLK</b>	TestCode: <b>8260_WP_LL</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>78393</b>						
Client ID: <b>PBW</b>	Batch ID: <b>A07VW106</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>4/26/2007</b>	SeqNo: <b>1183365</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	0.50									
n-Butylbenzene	ND	0.50									
n-Propylbenzene	ND	0.50									
Naphthalene	ND	0.50									
o-Xylene	ND	0.50									
sec-Butylbenzene	ND	0.50									
Styrene	ND	0.50									
tert-Butylbenzene	ND	0.50									
Tetrachloroethene	ND	0.50									
Toluene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Trichloroethene	ND	0.50									
Trichlorofluoromethane	ND	0.50									
Vinyl chloride	ND	0.50									
Surr: 1,2-Dichloroethane-d4	21.480		25.00		85.9	67	118				
Surr: 4-Bromofluorobenzene	22.270		25.00		89.1	81	119				
Surr: Dibromofluoromethane	20.960		25.00		83.8	77	112				
Surr: Toluene-d8	21.940		25.00		87.8	82	116				

**Qualifiers:**

- |   |  |  |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range       | H Holding times for preparation or analysis exceeded           |
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# CHAIN OF CUSTODY RECORD



**Advanced Technology  
Laboratories**

3275 Walnut Avenue  
Signal Hill, CA 90755  
(562) 989-4045 • Fax (562) 989-4040

## FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED <u>3.5</u> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>9/21/07</u>	

Client: <u>Ninyo and Moore</u>	Address: <u>1956 Webster St</u>	TEL: <u>(510) 633 5640</u>
Attn: <u>Blair Bridges</u>	City: <u>Oakland</u> State: <u>CA</u> Zip Code: <u>94612</u>	FAX: <u>(510) 633 5646</u>

Project Name: Quality TurnUps (QTU) Project #: 401007003 Sampler: (Printed Name) Blair Bridges (Signature) B Bridges

Relinquished by: (Signature and Printed Name) <u>Brian Harvey</u>	Date: <u>4/20/07</u> Time: <u>1210</u>	Received by: (Signature and Printed Name) <u>R. H. L. ROGER AUGUSTIN</u>	Date: <u>4-20-07</u> Time: <u>1210</u>
Relinquished by: _____	Date: _____ Time: _____	Received by: _____	Date: <u>4/21/07</u> Time: <u>1037</u>
Relinquished by: _____	Date: _____ Time: _____	Received by: _____	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>Blair Bridges</u> <u>4/20/07</u> <u>B Bridges</u>	Send Report To: Attn: <u>Blair Bridges</u> Co: <u>see above</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: <u>see</u> Co: <u>←</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>Please analyze for MTBE with VOCs</u>
---	--	---	--

**Sample/Records - Archival & Disposal**  
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**  
• Sample : \$2.00 / sample / mo (after 45 days)  
• Records : \$1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description		SPECIFY APPROPRIATE MATRIX										PRESERVATION	REMARKS											
	Batch #:	Lab No.			MATRIX																						
			Sample I.D. / Location	Date	Time	8021A (Pesticides)	8022 (PCB)	8220B (Volatiles)	8270C (ENV)	80108 (Total Metal)	80158 (GRO) / 8020 (BTEX)	80159 (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010, 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	#	Type	RTNE <input type="checkbox"/>	CT <input type="checkbox"/>	SWRCB <input type="checkbox"/>	Logcode _____	OTHER _____	
			<u>NM-18-13</u>	<u>4/19/07</u>																							
			<u>NM-18-1B</u>																								
			<u>GW-18-1B</u>		<u>0145</u>																						

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= <u>Overnight</u> ≤ 24 hr	B= <u>Emergency</u> Next workday	C= <u>Critical</u> 2 Workdays	D= <u>Urgent</u> 3 Workdays	E= <u>Routine</u> 7 Workdays	Preservatives: H=HCl N=HNO <sub>3</sub> S=H <sub>2</sub> SO <sub>4</sub> C=4'C Z=Zn(AC) <sub>2</sub> O=NaOH T=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						