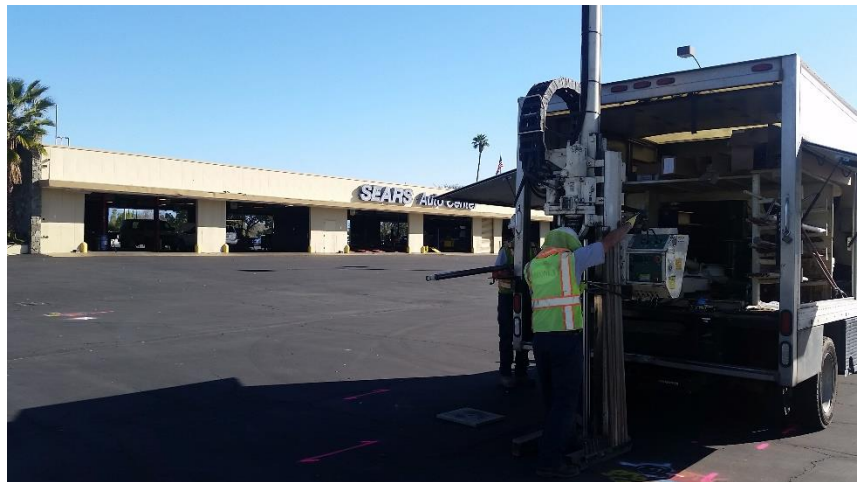


# Phase II ESA Report

**1298\_CA\_DD\_FINAL Phase II ESA Report  
Sears Store #1298 and Sears Auto Center #6711  
5261 Arlington Avenue  
Riverside, Riverside County, California**

April 7, 2015

Terracon Project No. 60159016.1298



**Prepared for:**

Sears Holdings Management Corporation  
333 Beverly Road, B5-362A  
Hoffman Estates, IL 60179

**Prepared by:**

Terracon Consultants, Inc.  
Irvine, California

[terracon.com](http://terracon.com)

**Terracon**

April 7, 2015



Sears Holdings Management Corporation  
3333 Beverly Road, B5-362A  
Hoffman Estates, Illinois 60179

Attn: Mr. Michael Couvreur  
P: (847) 286-9214  
F: (847) 747-9056  
Michael.couvreur@searsshc.com

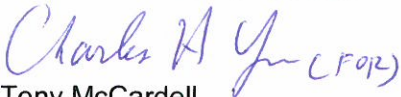
Re: Phase II Environmental Site Assessment  
**1298\_CA\_DD\_FINAL Phase II ESA Report**  
**Sears Store #1298 and Sears Auto Center #6711**  
5261 Arlington Avenue  
Riverside, Riverside County, California  
Terracon Project No. 60159016.1298


Dear Mr. Couvreur,


Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Phase II Environmental Site Assessment (Phase II ESA) activities completed at the site referenced above. The report presents data from recent field activities that included the completion of soil borings and the collection of soil and groundwater samples for chemical analysis. The activities were completed to address the findings of the Phase I Environmental Site Assessment (Phase I ESA) of the property dated December 18, 2015. Terracon conducted the Phase II ESA in general accordance with our proposal (P60150041.35) dated March 3, 2015 and your notice to proceed dated February 13, 2015.

Terracon appreciates this opportunity to provide environmental engineering services to Sears Holdings Management Corporation. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,  
**Terracon Consultants, Inc.**

  
Tony McCardell  
Project Manager

  
(P) Carl A. Parten  
Principal/Office Manager

  
Fouad Abuhamdan (Fred Hamdan), P.E.  
Senior Project Manager

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**PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**  
**1298\_CA\_DD\_FINAL Phase II ESA Report**  
**SEARS STORE #1298 AND SEARS AUTO CENTER #6711**  
**5261 ARLINGTON AVENUE**  
**RIVERSIDE, RIVERSIDE COUNTY, CALIFORNIA**

**Terracon Project No. 60159016.1298**  
**April 7, 2015**

## **1.0 SITE DESCRIPTION**

The subject site is located at 5261 Arlington Avenue in Riverside, Riverside County, California and consists of approximately 17.43 acres of land. The site is improved with two buildings, a retail store and an automotive service center, both of which are one-story buildings with underlying basements. Other site improvements include asphalt-paved parking areas, driveways, and utilities. The site is currently occupied by a Sears Store (#1298) and a Sears Auto Center (#6711). A Topographic Map showing the site location is included as Exhibit 1 and a Boring Location Diagram is included as Exhibit 2 in Appendix A.

Terracon previously performed a Phase I Environmental Site Assessment (ESA) of the property for Sears Holdings Management Corporation (Terracon Project No. 81149324.1298, report dated December 18, 2014).

Based on a review of the historical information, the site consisted of cultivated agricultural land and several residences or farmsteads from as early as 1896 through the mid-1960s, when the current Sears retail store and Sears Auto Center were originally developed. From the mid-1960s to the present, the site has been operated as a Sears store and a Sears Automotive Center and has remained relatively unchanged. Based on the information and documents reviewed, three on-site 10,000-gallon gasoline underground storage tanks (USTs) were removed from the site in 1985. Seven additional USTs were removed from the site in 1986: one 1,000-gallon waste oil tank, four 1,000-gallon oil tanks and two 2,000-gallon oil tanks. In 1994 the associated fuel dispenser island and product lines from the former gasoline USTs were removed. Impacts to site soil from these features were identified; however, each appears to have been investigated to the satisfaction of the regulatory agency.

Based on closure information for the associated release, groundwater contaminants were present at the site at the time of regulatory closure that exceed current regulatory risk-based groundwater screening levels. The NFA letter indicates that corrective action should be reviewed if land uses change. No vapor assessments conducted at the site for residual impacted soil was identified. Based on the condition of the NFA that requires a review during land use changes, and given that contamination is still present in the subsurface, the former USTs and the on-site LUST listing represent a Controlled Recognized Environmental Condition (CREC) for the site. Additionally, chlorinated solvent concentrations were identified in

groundwater at the site during sampling in 1991 and 1992, which were determined to be from an off-site source. The identified chlorinated solvent contamination in groundwater represents a REC.

## **2.0 SCOPE OF SERVICES**

Terracon's Phase II ESA was undertaken in response to the results of our Phase I ESA report dated December 18, 2014 (Terracon Project No. 81149324.1298), which identified the following RECs.

- Based on the duration of automotive servicing for 60 years, unknown historical chemical usage, hazardous waste management disposal activities, the lack of soil/groundwater data, and the absence of continuous service records, there is the potential for an undocumented release to have occurred that may have originated from the oil/water separator (OWS). Therefore, the OWS represent a REC in connection with the Site.
- A release of chlorinated solvents was reported at the Crown Cleaners facility approximately 580 feet south of the site. No groundwater sampling was conducted in association with the identified release. PCE was identified in groundwater at the site in 1991 and 1992. Based on the absence of analytical data relating to potential groundwater impacts, the facility's location in the presumed up-gradient groundwater flow direction, as well as the documented historic presence of PCE in groundwater beneath the site, the Crown Cleaner facility represents a REC associated with the site.

Additionally, the following CREC was identified:

- Based on the information and documents reviewed, ten on-site underground storage tanks (USTs) were previously removed from the site. Impacts to site soil from these features were identified and a LUST was reported for the site in 1985 which appear to have been investigated to the satisfaction of the regulatory agency. However, based on the condition of the NFA that requires a review during land use changes, and given that contamination is still present in the subsurface, the former USTs and the on-site LUST listing represent a CREC for the site.

The Phase II ESA was conducted to evaluate the presence or absence of indicator contaminants associated with the RECs identified by the Phase I ESA. Based on the findings of the Phase I ESA, groundwater was anticipated at a depth of approximately 30 feet below grade

surface (bgs) in the vicinity of the site. The scope of services was not intended to identify every chemical possibly associated with the site. Similarly, the proposed scope was not intended to evaluate the extent or magnitude of any existing contamination.

## **2.1 Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These Phase II ESA services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-11.

## **2.2 Additional Scope Limitations**

Findings, and conclusions, resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this Phase II ESA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, and our findings, are based solely upon data obtained at the time and within the scope of these services.

## **2.3 Reliance**

This report has been prepared for the exclusive use of Sears Holdings Management Corporation (SHMC) and Sears Holdings Subsidiaries and Affiliates, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Sears Holdings Management Corporation and Terracon. Any unauthorized distribution or reuse is at Sears Holdings Management Corporation sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, Phase II ESA, and Terracon's Master Environmental Services Agreement with Sears Holdings Management Corporation. The limitation of liability defined in the terms and conditions is the

aggregate limit of Terracon's liability to Sears Holdings Management Corporation and all relying parties unless otherwise agreed in writing.

### **3.0 FIELD INVESTIGATION**

Terracon conducted the fieldwork under a safety plan developed for this project. Work was performed using Occupational Safety and Health Administration (OSHA) Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots. Prior to drilling activities, the soil boring locations were marked and an Underground Service Alert (Dig Alert Ticket No: A050500164) service was requested by Terracon personnel for clearance of public underground utilities. To further evaluate the presence of underground utilities at the site, a geophysical survey was performed in the vicinity of each boring location where mechanical drilling was to be performed.

Terracon's field activities were conducted on March 6, 2015 by an environmental professional under the supervision of a Principal Geologist with Terracon.

As part of the approved scope of work, a total of five (5) soil borings (TSW-1 through TSW-5) were advanced on the site using direct-push technology drilling (DPT) rig, limited access rig or concrete coring and hand-auger sampling equipment to a maximum depth of approximately 45 feet bgs. The approximate boring locations are presented on Exhibit 2, in Appendix A.

***Historical On-Site UST System.*** Based on the presence of residual impact to soils beneath the historical UST system, Terracon conducted the following scope to evaluate current subsurface conditions at the location of former historical on-site UST system components.

- Terracon advanced two soil borings, TSW-1 and TSW-2, in the area of the historical on-site UST system components to a depth of 35 feet bgs. Terracon collected soil samples continuously for observation and field screening, and selected one soil sample from each soil boring for laboratory analysis. Based on field evidence of impairment and/or PID readings, the soil samples were selected at depths ranging from 21 feet to 26 feet bgs. Groundwater seepage was encountered at approximately 32 feet bgs.
- Following completion of soil borings, TSW-1 and TSW-2, the soil borings were converted into temporary groundwater sampling wells to evaluate on-site groundwater in the vicinity of the historical on-site UST system components. The temporary sampling wells were developed by surging and removing groundwater until fluids appeared relatively free of fine-grained sediment and a groundwater sample was collected from each well.

**Oil/Water Separator.** Based on the absence of subsurface investigation associated with the oil/water separator system and use of petroleum and halogenated solvents, Terracon conducted the following scope to evaluate subsurface conditions at the oil/water separator.

- Terracon advanced two soil borings, TSW-3 and TSW-4, in the area of the oil/water separator to a depth of 40 feet bgs. Terracon collected soil samples continuously for observation and field screening, and selected one soil sample from each soil boring for laboratory analysis. Based on field evidence of impairment and/or PID readings observed during the collection of soil samples, the soil sample was collected at a depth of 14 to 15 feet bgs. Groundwater seepage was encountered at approximately 32 feet bgs.
- Following completion of the soil borings, TSW-3 and TSW-4, the soil borings were converted into temporary groundwater sampling wells to evaluate on-site groundwater in the vicinity of the oil/water separator. The temporary sampling wells were developed by surging and removing groundwater until fluids appeared relatively free of fine-grained sediment and a groundwater sample was collected from each well.

**Crown Cleaners facility.** Based on the absence of analytical data relating to potential groundwater impacts by PCE, Terracon conducted the following scope to evaluate groundwater conditions in the presumed down gradient location from the off-site dry cleaning facility.

- Terracon advanced one soil boring, TSW-5, in the presumed down-gradient location from the off-site dry cleaning facility to a depth of 45 feet bgs. Terracon collected soil samples continuously for observation and field screening, and selected one soil sample from the soil boring for laboratory analysis. Based on field evidence of impairment and/or PID readings observed during the collection of soil samples, the soil sample was collected at a depth of 38 to 39 feet bgs. Groundwater seepage was encountered at approximately 39 feet bgs.
- Following completion of the soil boring, TSW-5, the soil boring was converted into a temporary groundwater sampling well to evaluate on-site groundwater the presumed down-gradient location. The temporary sampling well was developed by surging and removing groundwater until fluids appear relatively free of fine-grained sediment and a groundwater sample was collected.

Terracon field representative screened soil samples for organic vapors using a photoionization detector (PID). This device provides a direct reading in parts per million (ppm) isobutylene



equivalents. Upon removal of the sampler from the borehole, Terracon put a portion of each sample in a sealable plastic bag. After a stabilization period, Terracon screened the headspace above the soil using the PID equipped with a 10.2 electron-volt (eV) ultraviolet lamp source. Terracon calibrated the PID in accordance with the manufacturer's recommendations before the field activities. The boring logs include the field screening results for each soil boring. Based on the field screening results, Terracon selected soil samples from each boring for laboratory analysis.

After packaging each sample in laboratory-provided containers, Terracon recorded the sample time on each container label in permanent ink and place the filled containers in an ice-filled cooler for transport to the nearest FedEx location. FedEx then delivered them to Environmental Science Corporation (ESC) in Mt. Juliet, Tennessee, a National Environmental Laboratory Accreditation Program (NELAP)-accredited laboratory, for laboratory analysis on a standard 7-day turnaround basis.

The soil and groundwater samples collected from the five borings were analyzed for Volatile Organic Compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260B and Total Petroleum Hydrocarbons (TPH) using United States Environmental Protection Agency (USEPA) Method 8015M (see Appendix D for Chain of Custody).

At the completion of field activities, Terracon removed the temporary well material and abandoned the borings with hydrated commercial bentonite sealant. The borings completed in the paved areas were completed to surface level with concrete.

## **4.0 RESULTS OF THE FIELD INVESTIGATION**

### **4.1 Geology/Hydrogeology**

The boring logs in Appendix B detail the observed soil stratigraphy. In general, Terracon encountered dark brown sandy clay and olive brown sandy silt below the asphalt to a depth of approximately 21 feet bgs. Olive brown, poorly graded, sand was encountered from below approximately 21 feet bgs to the boring termination depths of ranging from 35 to 45 feet bgs, except for TSW-5 where sandy lean clay was encountered between 23 feet and 45 feet bgs..

Groundwater seepage was observed in all five (5) borings, TSW-1 through, TSW-5, at depths ranging from approximately 32 to 39 feet bgs.

The groundwater flow direction and the depth to shallow groundwater, would likely vary depending upon seasonal variations in rainfall and depth to the soil/bedrock interface. Without

the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater flow direction beneath the site cannot be ascertained.

## **4.2 Field Screening**

The field screening results are summarized on the boring logs in Appendix B. Elevated readings ranging from 3.2 ppm to 434 ppm were detected in soil samples collected from the borings. The maximum PID reading of 434 ppm was observed in the soil sample collected from TSW-2 at a depth of 25 to 26 feet bgs.

## **5.0 ANALYTICAL RESULTS**

The laboratory analytical report and chain-of-custody record are attached in Appendix D. The following sections describe the results of the testing.

### **5.1 Soil Sample Results**

The soil samples collected at the site did not exhibit TPH concentrations above the laboratory method detection limits, with the exception of relatively low TPH-gasoline (G) and TPH-diesel (D) range concentrations of 1.9 mg/Kg and 26 mg/Kg, respectively, from the soil sample collected from TSW-2 at approximately 25 to 26 feet bgs.

The reported TPH concentrations were compared to the Regional Water Quality Control Board (RWQCB)-Los Angeles Maximum Screening Level (MSL) of the more conservative 100 mg/Kg for TPH-G and TPH-D, and 1,000 mg/Kg for TPH-O, respectively, in soil where groundwater is anticipated at less than 20 feet below the affected zone. The reported TPH concentrations were below their respective RWQCB MSLs.

The soil samples collected from borings TSW-1 through TSW-5 exhibited various VOC constituents above the laboratory method detection limits including n-butylbenzene, sec-butylbenzene, tert-butylbenzene, ethylbenzene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes, which were reported for the soil sample collected at a depth of 25 to 26 feet bgs from boring TSW-2 (Historical On-site UST area). The reported VOC constituents were compared to the USEPA Region 9 Regional Screening Levels (RSLs), and were well below their respective RSLs for industrial and residential land use.

Laboratory analytical results and the chain-of-custody form are provided in Appendix B.

## 5.2 Groundwater Sample Results

The groundwater samples collected from borings TSW-1 through TSW-5, exhibited various VOC constituents above the laboratory MDLs. The listed constituents were not reported above the July 2014 California Environmental Protection Agency's (Cal-EPA) Maximum Contamination Levels (Cal-MCLs) for groundwater, with the exception of benzene (0.0078 mg/L), ethylbenzene (0.99 mg/L), 1,2-dichloroethane (0.0052 mg/L) and total xylenes (2.6 mg/L) detected in the groundwater sample collected from TSW-2.

The groundwater samples did not exhibit TPH-G range concentrations above the laboratory method detection limits, with the exception of a concentration of 5.7 mg/L from the groundwater sample collected from TSW-2 at approximately 30 to 35 feet bgs.

The groundwater samples collected from TSW-1 through TSW-5 exhibited (one or more TPH carbon ranges) for TPH-G, TPH-D and TPH-O above the laboratory method detection limits.

The reported TPH concentrations were compared to the Regional Water Quality Control Board (RWQCB)-San Francisco Region Environmental Screening Levels (ESLs). The TPH concentrations reported for all five groundwater samples are above the RWQCB ESL of 0.1 mg/L.

## 6.0 INVESTIGATION DERIVED WASTES

Following completion of the investigation activities, the residual soil cuttings were temporarily stored in a 5-gallon plastic bucket. Due to the relatively small quantity of IDW (less than 5 gallons), the soil cuttings were transported offsite by the drilling contractor (Vironex Drilling) to be disposed at a later date under their general disposal permit.

## 7.0 FINDINGS

Based on the scope of services described in this report and subject to the limitations described herein, Terracon concludes the following.

- Based on laboratory analysis, the soil in the vicinity of the former UST system fueling island area appears to be affected by low level concentrations of TPH; however, the reported concentrations were not above the applicable RWQCB MSL.
- Based on laboratory analysis, the soil in the vicinity of the former UST system fueling island and oil/water separator appear to be affected by a release of

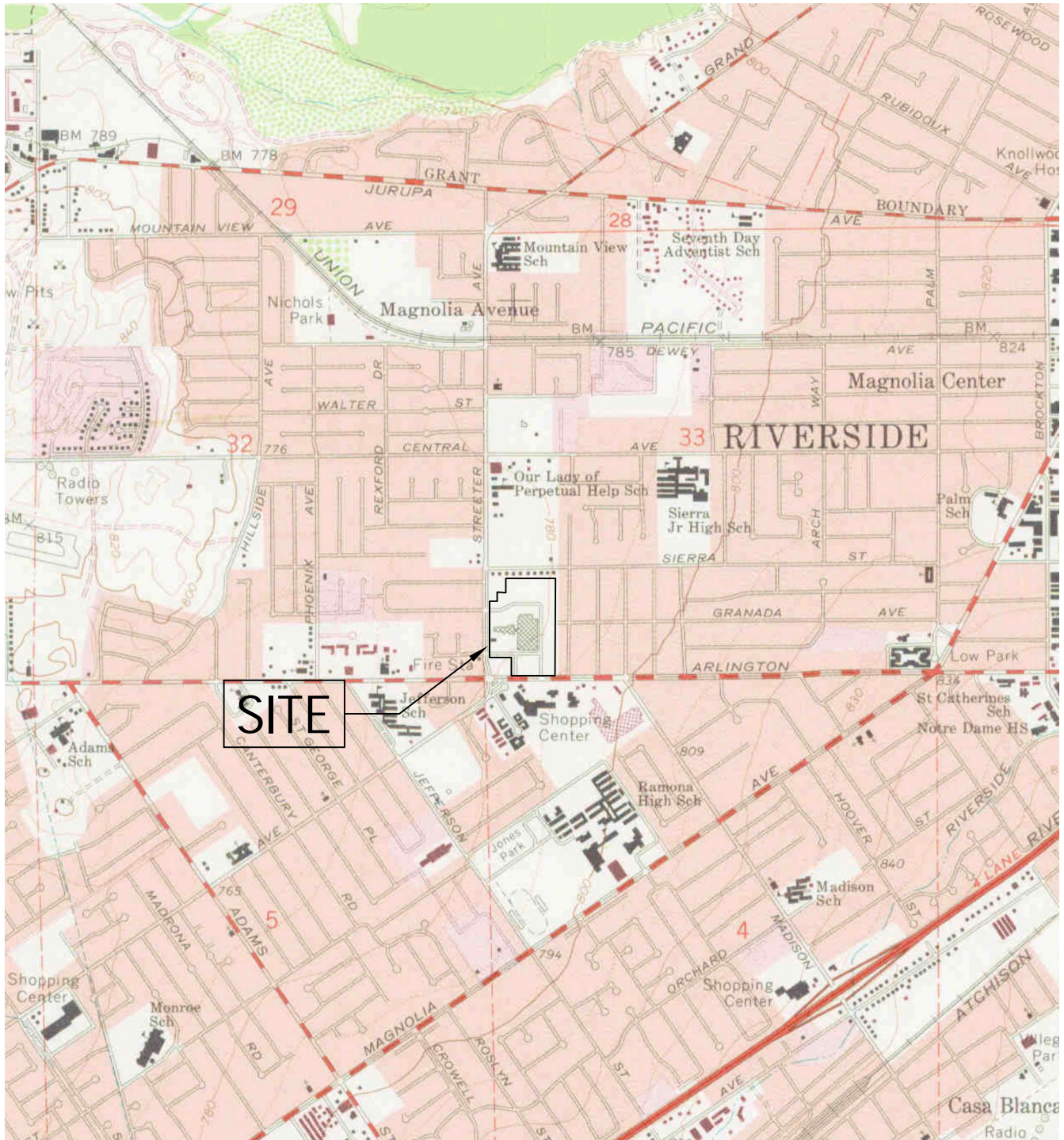
VOCs; however, the reported concentrations were not above the USEPA Region 9 RSLs.

- Based on laboratory analysis, the groundwater samples collected from each of the five soil borings (TSW-1 through TSW-5) exhibited PCE concentrations above the laboratory method detection limits, but below the USEPA Region 9 RSL of 0.005 mg/L. The presence of PCE, a common dry cleaner compound in the groundwater is potentially indicative of impact from the off-site dry cleaning facility.
- Based on the groundwater sample results from TSW-2, the groundwater appears to be affected by a release of VOCs above the Cal-EPA MCLs in the vicinity of the former fueling island. Of the reported constituents above laboratory MDLs, concentrations of benzene (0.0078 mg/L), ethylbenzene (0.99 mg/L), 1,2-dichloroethane (0.0052 mg/L) and total xylenes (2.6 mg/L) are above their respective Cal-EPA MCLs. Therefore, the usage of petroleum and volatile organic compounds in the vicinity of the former UST system appears to have impacted the groundwater beneath the site. Additionally, petroleum hydrocarbon and chlorinated solvents were detected in the vicinity of the oil/water separator and near the northwesterly (topographically downgradient) corner of the Sears Automotive Service Center, below Cal-EPA MCLs, indicative that a release across the site is more wide-spread and from possibly multiple-point source areas.
- The groundwater appears to be affected by a release of petroleum hydrocarbons (TPH-G, TPH-D, and TPH-O) above the RWQCB-San Francisco Region ESLs in the vicinity of former UST system components, the oil/water separator, and at the southeast portion of the site. Therefore, the usage of petroleum and volatile organic compounds does appear to have impacted the groundwater at the site.

**APPENDIX A – EXHIBITS**

Exhibit 1 – Topographic Map

Exhibit 2 – Site Diagram



Source: USGS Riverside West, California, 7.5-minute Quadrangle, published 1967, photorevised 1980.

Project Mng:	TAH	Project No.	81149324.1298
Drawn By:	CJP	Scale:	
Checked By:		File No.	*.dwg
Approved By:		Date:	

**Terracon**  
Consulting Engineers and Scientists  
21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043

**TOPOGRAPHIC MAP**  
Sears Store #1298  
5261 Arlington Avenue  
Riverside Riverside County California

FIG. No
1

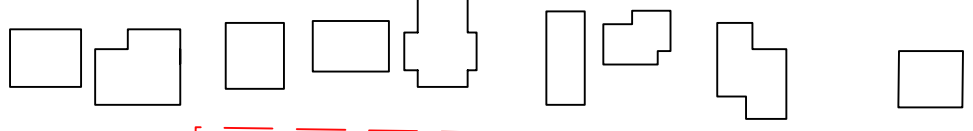


Janet Goeske  
Foundation & Senior  
Center (5257 Sierra  
Street)

Parking

Sierra Street

Residences  
(5178-5266  
Sierra St)



Gentle  
Chiropractic  
Care (6828  
Streeter Ave)

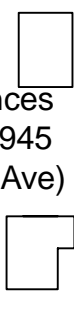
Vacant

Parking

Residences  
(6825-6975  
Capistrano  
Way)

Sierra Street

Residences  
(6915-6945  
Streeter Ave)

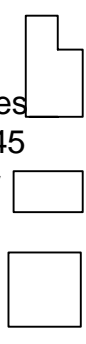


Granada Ave

Parking



Residences  
(6915-6945  
Streeter  
Ave)



Granada Ave

TSW-3

TSW-4

Patch

Sears Auto Center

Basement

Sears Retail  
Store #1298  
(5261 Arlington  
Avenue)

TSW-2

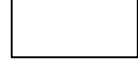
Former  
Fueling  
Island

TSW-1

Capistrano Way

Residences  
(6825-6975  
Capistrano  
Way)

Shell Gas  
Station (5305  
Arlington Ave)



Streeter Ave

Bank of  
America (5295  
Arlington Ave)

Parking

TSW-5

Arlington Ave

Del Taco

Starbucks

Heritage Plaza  
(5200 Arlington Avenue)

Approximate boring location

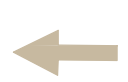
Crown  
Cleaner

Basemap PDF file provided by Client and modified by Terracon.

**LEGEND:**



APPROXIMATE SITE  
BOUNDARY



INFERRED GROUNDWATER  
FLOW DIRECTION

Project Mng:	MYW	Project No:	81149324.1298
Drawn By:	CJP	Scale:	Not to Scale
Checked By:	-	File No.:	*.dwg
Approved By:	-	Date:	-

**Terracon**  
Consulting Engineers and Scientists  
21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043

**SITE DIAGRAM**  
Sears Store #1298  
5261 Arlington Avenue  
Riverside Riverside County Washington

FIG. No.  
**2**

**APPENDIX B – SOIL BORING LOGS**

General Notes













Unified Soil Classification System

Boring Logs for TSW-1 through TSW-5



# GENERAL NOTES

## DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

<b>SAMPLING</b>				<b>WATER LEVEL</b>		Water Initially Encountered	<b>FIELD TESTS</b>	(HP) Hand Penetrometer
						Water Level After a Specified Period of Time		(T) Torvane
						Water Level After a Specified Period of Time		(b/f) Standard Penetration Test (blows per foot)
					Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.			(OVA) Organic Vapor Analyzer
								(WOH) Weight of Hammer

## DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

## LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

<b>STRENGTH TERMS</b>	<b>RELATIVE DENSITY OF COARSE-GRAINED SOILS</b> (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance Includes gravels and sands.			<b>CONSISTENCY OF FINE-GRAINED SOILS</b> (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance Includes silts and clays.			
	Descriptive Term (Density)	Standard Penetration or N-Value Blows/Ft.	Ring Sampler Blows/Ft.	Descriptive Term (Consistency)	Unconfined Compressive Strength, Qu, psf	Standard Penetration or N-Value Blows/Ft.	Ring Sampler Blows/Ft.
Very Loose	0 - 3	0 - 6	Very Soft	less than 500	0 - 1	< 3	
Loose	4 - 9	7 - 18	Soft	500 to 1,000	2 - 4	3 - 4	
Medium Dense	10 - 29	19 - 58	Medium-Stiff	1,000 to 2,000	4 - 8	5 - 9	
Dense	30 - 50	59 - 98	Stiff	2,000 to 4,000	8 - 15	10 - 18	
Very Dense	> 50	≥ 99	Very Stiff	4,000 to 8,000	15 - 30	19 - 42	
			Hard	> 8,000	> 30	> 42	

## RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	< 15
With	15 - 29
Modifier	> 30

## RELATIVE PROPORTIONS OF FINES

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	< 5
With	5 - 12
Modifier	> 12

## GRAIN SIZE TERMINOLOGY

<u>Major Component of Sample</u>	<u>Particle Size</u>
Boulders	Over 12 in. (300 mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt or Clay	Passing #200 sieve (0.075mm)

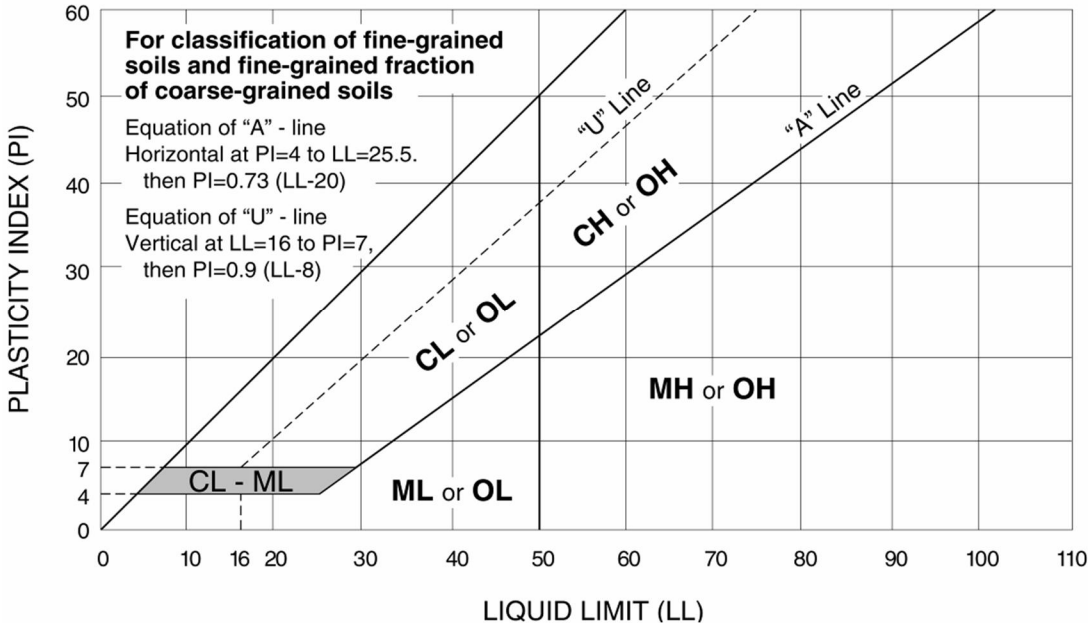
## PLASTICITY DESCRIPTION

<u>Term</u>	<u>Plasticity Index</u>
Non-plastic	0
Low	1 - 10
Medium	11 - 30
High	> 30

# UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests <sup>A</sup>				Soil Classification		
				Group Symbol	Group Name <sup>B</sup>	
<b>Coarse Grained Soils:</b> More than 50% retained on No. 200 sieve	<b>Gravels:</b> More than 50% of coarse fraction retained on No. 4 sieve	<b>Clean Gravels:</b> Less than 5% fines <sup>C</sup>	$Cu \geq 4$ and $1 \leq Cc \leq 3$ <sup>E</sup>	GW	Well-graded gravel <sup>F</sup>	
			$Cu < 4$ and/or $1 > Cc > 3$ <sup>E</sup>	GP	Poorly graded gravel <sup>F</sup>	
		<b>Gravels with Fines:</b> More than 12% fines <sup>C</sup>	Fines classify as ML or MH	GM	Silty gravel <sup>F,G,H</sup>	
			Fines classify as CL or CH	GC	Clayey gravel <sup>F,G,H</sup>	
	<b>Sands:</b> 50% or more of coarse fraction passes No. 4 sieve	<b>Clean Sands:</b> Less than 5% fines <sup>D</sup>	$Cu \geq 6$ and $1 \leq Cc \leq 3$ <sup>E</sup>	SW	Well-graded sand <sup>I</sup>	
			$Cu < 6$ and/or $1 > Cc > 3$ <sup>E</sup>	SP	Poorly graded sand <sup>I</sup>	
		<b>Sands with Fines:</b> More than 12% fines <sup>D</sup>	Fines classify as ML or MH	SM	Silty sand <sup>G,H,I</sup>	
			Fines classify as CL or CH	SC	Clayey sand <sup>G,H,I</sup>	
<b>Fine-Grained Soils:</b> 50% or more passes the No. 200 sieve	<b>Silts and Clays:</b> Liquid limit less than 50	<b>Inorganic:</b>	$PI > 7$ and plots on or above "A" line <sup>J</sup>	CL	Lean clay <sup>K,L,M</sup>	
			$PI < 4$ or plots below "A" line <sup>J</sup>	ML	Silt <sup>K,L,M</sup>	
		<b>Organic:</b>	Liquid limit - oven dried	< 0.75	OL	Organic clay <sup>K,L,M,N</sup>
			Liquid limit - not dried		OH	Organic silt <sup>K,L,M,O</sup>
	<b>Silts and Clays:</b> Liquid limit 50 or more	<b>Inorganic:</b>	$PI$ plots on or above "A" line	CH	Fat clay <sup>K,L,M</sup>	
			$PI$ plots below "A" line	MH	Elastic Silt <sup>K,L,M</sup>	
		<b>Organic:</b>	Liquid limit - oven dried	< 0.75	OH	Organic clay <sup>K,L,M,P</sup>
			Liquid limit - not dried		OH	Organic silt <sup>K,L,M,Q</sup>
					OH	Organic clay <sup>K,L,M,P</sup>
					OH	Organic silt <sup>K,L,M,Q</sup>
<b>Highly organic soils:</b>	Primarily organic matter, dark in color, and organic odor			PT	Peat	

- <sup>A</sup> Based on the material passing the 3-inch (75-mm) sieve
- <sup>B</sup> If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- <sup>C</sup> Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
- <sup>D</sup> Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay
- <sup>E</sup>  $Cu = D_{60}/D_{10}$      $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
- <sup>F</sup> If soil contains  $\geq 15\%$  sand, add "with sand" to group name.
- <sup>G</sup> If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
- <sup>H</sup> If fines are organic, add "with organic fines" to group name.
- <sup>I</sup> If soil contains  $\geq 15\%$  gravel, add "with gravel" to group name.
- <sup>J</sup> If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
- <sup>K</sup> If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
- <sup>L</sup> If soil contains  $\geq 30\%$  plus No. 200 predominantly sand, add "sandy" to group name.
- <sup>M</sup> If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.
- <sup>N</sup>  $PI \geq 4$  and plots on or above "A" line.
- <sup>O</sup>  $PI < 4$  or plots below "A" line.
- <sup>P</sup>  $PI$  plots on or above "A" line.
- <sup>Q</sup>  $PI$  plots below "A" line.



# WELL LOG NO. TSW-1

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/IPID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	<p style="text-align: center;">DEPTH MATERIAL DESCRIPTION</p> <p>0.3 <b>ASPHALT CONCRETE</b>, 3 inches</p> <p>0.5 <b>AGGREGATE BASE COURSE</b>, 3 inches</p> <p><b>SANDY LEAN CLAY (CL)</b>, fine grained, medium plasticity, dark brown, no odor, moist</p>	Well Completion: Surface Mount  3/4" Dia. PVC					
			5			<1.0	
			10			<1.0	
			12.0			<1.0	
	<b>SANDY SILT (ML)</b> , fine grained, nonplastic, olive-brown, no odor, moist					<1.0	
			15			<1.0	
	<b>SANDY LEAN CLAY (CL)</b> , fine grained, medium plasticity, dark brown, no odor, moist					<1.0	
	moderate odor		20			3.8	
						53.8	
						65.0	
			21.0			34.4	
	<b>POORLY GRADED SAND (SP)</b> , fine to medium grained, nonplastic, olive-brown, moderate odor, moist					136.0	
						89.5	

TSW-1  
@21-22ft

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).  
See Appendices for explanation of symbols and abbreviations.

Notes:

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

**WATER LEVEL OBSERVATIONS**

Groundwater at 32 feet bgs WD



Well Started: 3/6/2015

Well Completed: 3/6/2015

Drill Rig: Geoprobe 6600

Driller: CHY

Project No.: 65159016.1298

Exhibit: TSW-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15

# WELL LOG NO. TSW-1

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15

GRAPHIC LOG	LOCATION See Exhibit A-2		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	MATERIAL DESCRIPTION					
		<b>POORLY GRADED SAND (SP)</b> , fine to medium grained, nonplastic, olive-brown, moderate odor, moist ( <i>continued</i> )	25			26.1 29.5 8.7 18.0 19.1 22.7 7.0 7.1 3.2	TSW-1 @31-32ft
	35.0	wet	30	▽		<1.0 <1.0 <1.0	
	<b>Boring Terminated at 35 Feet</b>		35			<1.0	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct Push	See Appendices for description of field procedures. See Appendices for description of laboratory procedures and additional data (if any).	Notes:	
Abandonment Method: Borings backfilled with soil cuttings upon completion.	See Appendices for explanation of symbols and abbreviations.		
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 3/6/2015	Well Completed: 3/6/2015
▽ Groundwater at 32 feet bgs WD		Drill Rig: Geoprobe 6600	Driller: CHY
		Project No.: 65159016.1298	Exhibit: TSW-1



# WELL LOG NO. TSW-2

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15

GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	<p>Well Completion: Surface Mount</p>						
	<p>DEPTH MATERIAL DESCRIPTION</p>	3/4" Dia. PVC					
	0.3 <b>ASPHALT CONCRETE</b> , 3 inches					<1.0	
	0.5 <b>AGGREGATE BASE COURSE</b> , 3 inches					<1.0	
	<b>POORLY GRADED SAND (SP)</b> , fine to medium grained, nonplastic, brown, no odor, moist					<1.0	
	6.0 <b>SANDY LEAN CLAY (CL)</b> , fine grained, medium plasticity, dark brown, no odor, moist		5			<1.0	
	12.0 <b>SANDY SILT (ML)</b> , fine grained, nonplastic, olive-brown, no odor, moist		10			46.2	
	15.0 <b>SANDY LEAN CLAY (CL)</b> , fine grained, medium plasticity, dark brown, no odor, moist		15			197.0	
	21.0 <b>POORLY GRADED SAND (SP)</b> , fine to medium grained, nonplastic, olive-brown, moderate odor, moist		20			275.0	
						24.9	
						13.5	
						20.1	
						18.5	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						87.5	
						118.0	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).  
See Appendices for explanation of symbols and abbreviations.

Notes:

WATER LEVEL OBSERVATIONS
Groundwater at 32 feet bgs WD

4685 S. Ash Ave., Suite H-4  
Tempe, Arizona

Well Started: 3/6/2015	Well Completed: 3/6/2015
Drill Rig: Geoprobe 6600	Driller: CHY
Project No.: 65159016.1298	Exhibit: TSW-2

# WELL LOG NO. TSW-2

**PROJECT: Sears Store #1298**

**CLIENT: Sears Holdings Management Corporation  
Hoffman Estates, Illinois**

**SITE: 5261 Arlington Avenue  
Riverside, California**

GRAPHIC LOG	LOCATION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	See Exhibit A-2					
	DEPTH MATERIAL DESCRIPTION					
POORLY GRADED SAND (SP), fine to medium grained, nonplastic, olive-brown, moderate odor, moist (continued)	0.002" Slot Size	25	▽	TSW-2 @25-26ft	220.0 223.0 221.0 434.0 284.0 257.0 66.7 64.1 351.0	TSW-2 @30-31ft
wet		30			203.0 9.9 62.6	
35.0	<b>Boring Terminated at 35 Feet</b>	35			61.1	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct Push	See Appendices for description of field procedures. See Appendices for description of laboratory procedures and additional data (if any). See Appendices for explanation of symbols and abbreviations.	Notes:
Abandonment Method: Borings backfilled with soil cuttings upon completion.		
<b>WATER LEVEL OBSERVATIONS</b> ▽ Groundwater at 32 feet bgs WD		Well Started: 3/6/2015 Well Completed: 3/6/2015
4685 S. Ash Ave., Suite H-4 Tempe, Arizona		Drill Rig: Geoprobe 6600 Driller: CHY
		Project No.: 65159016.1298 Exhibit: TSW-2

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15



**WELL LOG NO. | TSW-3**

**PROJECT: Sears Store #1298**

**CLIENT: Sears Holdings Management Corporation  
Hoffman Estates, Illinois**

**SITE: 5261 Arlington Avenue  
Riverside, California**

GRAPHIC LOG	LOCATION See Exhibit A-2		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	MATERIAL DESCRIPTION					
		<b>POORLY GRADED SAND (SP)</b> , trace silt, fine grained, nonplastic, light brown, moist (continued)	25			<1.0	TSW-3 @31-32ft
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	
						<1.0	

wet

0.002" Slot Size

40.0

**Boring Terminated at 40 Feet**

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).

Notes:

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

See Appendices for explanation of symbols and abbreviations.

**WATER LEVEL OBSERVATIONS**

▽	Groundwater at 32 feet bgs WD
▽	Groundwater at 34 feet bgs AB



Well Started: 3/6/2015  
Drill Rig: Geoprobe 6600  
Project No.: 65159016.1298

Well Completed: 3/6/2015  
Driller: CHY  
Exhibit: TSW-3

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15



# WELL LOG NO. TSW-4

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

GRAPHIC LOG	LOCATION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	See Exhibit A-2						
		Well Completion: Surface Mount					
	DEPTH MATERIAL DESCRIPTION	3/4" Dia. PVC					
	0.3 <b>ASPHALT CONCRETE</b> , 3 inches					<1.0	
	0.5 <b>AGGREGATE BASE COURSE</b> , 3 inches					<1.0	
	<b>SANDY LEAN CLAY (CL)</b> , fine grained, medium plasticity, dark brown, no odor, moist					<1.0	
			5			<1.0	
			10			<1.0	
			15			<1.0	TSW-4 @14-15ft
			20			<1.0	
			22.0			<1.0	
	<b>POORLY GRADED SAND (SP)</b> , trace silt, fine grained, nonplastic, light brown, moist					<1.0	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).  
See Appendices for explanation of symbols and abbreviations.

Notes:

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

**WATER LEVEL OBSERVATIONS**

Groundwater at 33 feet bgs WD



Well Started: 3/6/2015

Well Completed: 3/6/2015

Drill Rig: Geoprobe 6600

Driller: CHY

Project No.: 65159016.1298

Exhibit: TSW-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15

# WELL LOG NO. TSW-4

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

GRAPHIC LOG	LOCATION See Exhibit A-2		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	DEPTH	MATERIAL DESCRIPTION					
		<b>POORLY GRADED SAND (SP)</b> , trace silt, fine grained, nonplastic, light brown, moist <i>(continued)</i>	25			<1.0	
			30			<1.0	
	wet		35	▽		<1.0	TSW-4 @33-34ft
		0.002" Slot Size	40.0			<1.0	
	<b>Boring Terminated at 40 Feet</b>		40				

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).  
See Appendices for explanation of symbols and abbreviations.

Notes:

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

**WATER LEVEL OBSERVATIONS**

▽ Groundwater at 33 feet bgs WD



Well Started: 3/6/2015

Well Completed: 3/6/2015

Drill Rig: Geoprobe 6600

Driller: CHY

Project No.: 65159016.1298

Exhibit: TSW-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15

# WELL LOG NO. TSW-5

**PROJECT:** Sears Store #1298

**CLIENT:** Sears Holdings Management Corporation  
Hoffman Estates, Illinois

**SITE:** 5261 Arlington Avenue  
Riverside, California

GRAPHIC LOG	LOCATION See Exhibit A-2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE SENT TO LAB (ID NUMBER)
	<p style="text-align: center;">DEPTH MATERIAL DESCRIPTION</p>	Well Completion: Surface Mount					
0.3	<b>ASPHALT CONCRETE</b> , 3 inches	3/4" Dia. PVC				<1.0	
0.5	<b>AGGREGATE BASE COURSE</b> , 3 inches					<1.0	
	<b>SANDY LEAN CLAY (CL)</b> , fine grained, medium plasticity, dark brown, no odor, moist						<1.0
			5			<1.0	
			10			<1.0	
			15			<1.0	
16.0	<b>POORLY GRADED SAND (SP)</b> , fine grained, nonplastic, light brown, moist					<1.0	TSW-3 @15-16ft
			20			<1.0	
			23.0			<1.0	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:  
Direct Push

See Appendices for description of field procedures.  
See Appendices for description of laboratory procedures and additional data (if any).  
See Appendices for explanation of symbols and abbreviations.

Notes:

Abandonment Method:  
Borings backfilled with soil cuttings upon completion.

**WATER LEVEL OBSERVATIONS**

Groundwater at 39 feet bgs WD



Well Started: 3/6/2015

Well Completed: 3/6/2015

Drill Rig: Geoprobe 6600

Driller: CHY

Project No.: 65159016.1298

Exhibit: TSW-4

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 60159016.1298.GPJ TERRACON2012.GDT 3/11/15



## **APPENDIX C – TABLES**

<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS - VOCs<sup>1</sup> and TPH<sup>2</sup></b> Sears Automotive Center - Store #1298 5261 Arlington Avenue Riverside, California Terracon Project No. 60159016.1298						
Sample I.D.	Sample Depth (feet bgs)	Sample Date	VOCs <sup>3</sup> (mg/kg)	TPH (mg/kg)		
				C5 - C12	C10 - C28	C-28 - C40
TSW-1	21 - 22	03/06/15	ND	ND	ND	ND
TSW-2	25 - 26	03/06/15	n-butylbenzene-0.12 sec-butylbenzene-0.021 tert-butylbenzene-0.001J ethylbenzene-0.0022J isopropylbenzene-0.0045J p-isopropyltoluene-0.03J naphthalene-1 n-propylbenzene-0.037 1,2,4-trimethylbenzene-0.72 1,2,3-trimethylbenzene-0.37 1,3,5-trimethylbenzene-0.14 total xylenes-0.016	1.9	26	ND
TSW-3	14 - 15	03/06/15	ND	ND	ND	ND
TSW-4	14 - 15	03/06/15	ND	ND	ND	ND
TSW-5	38 - 39	03/06/15	ND	ND	ND	ND
<b>RSLs (Residential)</b>			n-butylbenzene-3900 sec-butylbenzene-7800 tert-butylbenzene-7800 ethylbenzene-5.8 isopropylbenzene-NE p-isopropyltoluene-NE naphthalene-3.8 n-propylbenzene-NE 1,2,4-trimethylbenzene-58 1,2,3-trimethylbenzene-49 1,3,5-trimethylbenzene-780 total xylenes-580	NE	NE	NE
<b>MSLs</b>			NE	100	100	1,000

1. VOCs = Volatile organic compounds analyzed by **EPA Method 8260B**

2. TPH = Total petroleum hydrocarbons analyzed by **EPA Method 8015**

3. Only those constituents detected above the laboratory detection limit are reported

ND = non detected NA - not applicable

(J) = Estimated value, value is above the laboratory detection limit, but below the laboratory quantitation limit

**Bold denotes concentrations that exceed [State Action/Screening Level]**

NE = Not Established

RSLs = Regional Screening Levels for EPA Region 9, California

MSLs = Maximum Screening Levels (MSLs) for soils <20 feet for distance above groundwater, Region 4, Regional Water Quality Control Board-Los Angeles Region, Interim Site Assessment & Cleanup Guidebook, January 2005

TABLE 2 GROUNDWATER SAMPLE ANALYTICAL RESULTS - VOCs <sup>1</sup> and TPH <sup>2</sup>					
Sears Automotive Center - Store #1298 5261 Arlington Avenue Riverside, California Terracon Project No. 60159016.1298					
Sample I.D.	Sample Date	VOCs <sup>3</sup> (mg/L)	TPH (mg/L)		
			C5 - C12	C10 - C28	C-28 - C40
TSW-1	03/06/15	benzene-0.0006J n-butylbenzene-0.0056 sec-butylbenzene-0.004 carbon disulfide-0.00053J ethylbenzene-0.18 isopropylbenzene-0.016 naphthalene-0.022 n-propylbenzene-0.049 tetrachloroethene-0.00043J toluene-0.0019J 1,2,4-trimethylbenzene-0.053 1,2,3-trimethylbenzene-0.055 1,3,5-trimethylbenzene-0.016 total xylenes-0.13	NA	<b>0.49</b>	<b>0.15</b>
TSW-2	03/06/15	<b>benzene-0.0078</b> n-butylbenzene-0.021 sec-butylbenzene-0.009 ter-butylbenzene-0.0014 carbon disulfide-0.00032J <b>1,2-dichloroethane-0.0052</b> Di-isopropyl ether-0.00048J <b>ethylbenzene-0.99</b> Isopropylbenzene-0.051 p-isopropyltoluene-0.0032 naphthalene-0.18 n-propylbenzene-0.14 styrene-0.00081J tetrachloroethene-0.00046J toluene-0.036 1,2,4-trimethylbenzene-1.5 1,2,3-trimethylbenzene-0.36 1,3,5-trimethylbenzene-0.2 <b>total xylenes-2.6</b>	<b>5.7</b>	<b>0.41</b>	0.058J
TSW-3	03/06/15	chloroform-0.0045J ethylbenzene-0.00051J tetrachloroethene-0.0012 1,2,4-trimethylbenzene-0.00083J total xylenes-0.0011J	ND	<b>0.17</b>	<b>0.12</b>
TSW-4	03/06/15	cis-1,2-dichloroethene-0.00033J tetrachloroethene-0.0042 1,2,4-trimethylbenzene-0.00045J	ND	<b>0.11</b>	0.037J
TSW-5	03/06/15	acetone-0.019J tetrachloroethene-0.0026	ND	<b>1.5</b>	<b>0.15</b>
Cal-MCLs		acetone-NE benzene-0.001 n-butylbenzene-NE sec-butylbenzene-NE ter-butylbenzene-NE carbon disulfide-NE chloroform-NE 1,2-dichloroethane-0.0005 cis-1,2-dichloroethene-0.006 Di-isopropyl ether-NE ethylbenzene-0.3 Isopropylbenzene-NE p-isopropyltoluene-NE naphthalene-NE n-propylbenzene-NE styrene-0.1 tetrachloroethene-0.005 toluene-NE 1,2,4-trimethylbenzene-NE 1,2,3-trimethylbenzene-NE 1,3,5-trimethylbenzene-NE total xylenes-1.75	NE	NE	NE
ESLs		NA	0.1	0.1	0.1

1. VOCs = Volatile organic compounds analyzed by [8260B]

2. TPH = Total petroleum hydrocarbons analyzed by [8015]

4. Description of State Action/Screening Level

ND = non detected NE = not established

(J) = Estimated value, value is above the laboratory detection limit, but below the laboratory quantitation limit

**Bold denotes concentrations that exceed applicable screening level**

ND - non detected NA=not applicable

Cal-MCLs = California's Environmental Protection Agency's Maximum Contamination Levels, July 2014

ESLs - Environmental Screening Levels, established by the Regional Water Quality Control Board, San Francisco Region for Groundwater, December 2013

**APPENDIX D – ANALYTICAL REPORT AND CHAIN OF  
CUSTODY**





12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Carl Parten  
Terracon - Irvine, CA  
2817 McGaw Avenue  
Irvine, CA 92614

## Report Summary

Friday March 13, 2015

Report Number: L752170


Samples Received: 03/07/15

Client Project: 60159016 4432

Description: Sears Store #1298 Riverside

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Jared Willis, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, CAL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside  
 Sample ID : TSW-1 (21-22)  
 Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 09:00

ESC Sample # : L752170-01  
 Site ID :  
 Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	98.1	0.0333		%		2540 G-2	03/11/15	1
TPHG C5 - C12	U	0.17	0.51	mg/kg		8015	03/12/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8015	03/12/15	1
Volatile Organics								
Acetone	U	0.050	0.25	mg/kg		8260B	03/11/15	5
Acrylonitrile	U	0.0090	0.051	mg/kg		8260B	03/11/15	5
Benzene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Bromobenzene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Bromodichloromethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
Bromoform	U	0.0021	0.0051	mg/kg		8260B	03/11/15	5
Bromomethane	U	0.0067	0.025	mg/kg		8260B	03/11/15	5
n-Butylbenzene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
sec-Butylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
tert-Butylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
Carbon disulfide	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Carbon tetrachloride	U	0.0016	0.0051	mg/kg		8260B	03/11/15	5
Chlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Chlorodibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/11/15	5
Chloroethane	U	0.0047	0.025	mg/kg		8260B	03/11/15	5
2-Chloroethyl vinyl ether	U	0.012	0.25	mg/kg		8260B	03/11/15	5
Chloroform	U	0.0011	0.025	mg/kg		8260B	03/11/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	03/11/15	5
2-Chlorotoluene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
4-Chlorotoluene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.025	mg/kg		8260B	03/11/15	5
1,2-Dibromoethane	U	0.0017	0.0051	mg/kg		8260B	03/11/15	5
Dibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
1,3-Dichlorobenzene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,4-Dichlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Dichlorodifluoromethane	U	0.0036	0.025	mg/kg		8260B	03/11/15	5
1,1-Dichloroethane	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichloroethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,1-Dichloroethene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichloropropane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
1,1-Dichloropropene	U	0.0016	0.0051	mg/kg		8260B	03/11/15	5
1,3-Dichloropropane	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-01

Sample ID : TSW-1 (21-22)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 09:00

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
2,2-Dichloropropane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Di-isopropyl ether	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
Ethylbenzene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0051	mg/kg		8260B	03/11/15	5
Isopropylbenzene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
p-Isopropyltoluene	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
2-Butanone (MEK)	U	0.023	0.051	mg/kg		8260B	03/11/15	5
Methylene Chloride	U	0.0050	0.025	mg/kg		8260B	03/11/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.051	mg/kg		8260B	03/11/15	5
Methyl tert-butyl ether	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Naphthalene	U	0.0050	0.025	mg/kg		8260B	03/11/15	5
n-Propylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
Styrene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
Tetrachloroethene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Toluene	U	0.0022	0.025	mg/kg		8260B	03/11/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0051	mg/kg	J3	8260B	03/11/15	5
1,1,1-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
1,1,2-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Trichloroethene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Trichlorofluoromethane	U	0.0019	0.025	mg/kg		8260B	03/11/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	03/11/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Vinyl chloride	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	03/11/15	5
Surrogate Recovery								
Toluene-d8	99.0			% Rec.		8260B	03/11/15	1
Dibromofluoromethane	95.9			% Rec.		8260B	03/11/15	1
a,a,a-Trifluorotoluene	103.			% Rec.		8260B	03/11/15	1
4-Bromofluorobenzene	99.7			% Rec.		8260B	03/11/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.1	mg/kg		8015	03/10/15	1
C28-C40 Oil Range	U	0.27	4.1	mg/kg		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	82.7			% Rec.		8015	03/10/15	1

Results listed are dry weight basis.

U = ND (Not Detected)

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-02

Sample ID : TSW-1 (30-35)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 09:30

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	03/12/15	1
Acrolein	U	8.9	50.	ug/l		8260B	03/12/15	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	03/12/15	1
Benzene	0.60	0.33	1.0	ug/l	J	8260B	03/12/15	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Bromoform	U	0.47	1.0	ug/l		8260B	03/12/15	1
Bromomethane	U	0.87	5.0	ug/l		8260B	03/12/15	1
n-Butylbenzene	5.6	0.36	1.0	ug/l		8260B	03/12/15	1
sec-Butylbenzene	4.0	0.36	1.0	ug/l		8260B	03/12/15	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Carbon disulfide	0.53	0.28	1.0	ug/l	J	8260B	03/12/15	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	03/12/15	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	03/12/15	1
Chloroethane	U	0.45	5.0	ug/l		8260B	03/12/15	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	03/12/15	1
Chloroform	U	0.32	5.0	ug/l		8260B	03/12/15	1
Chloromethane	U	0.28	2.5	ug/l		8260B	03/12/15	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	03/12/15	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	03/12/15	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	03/12/15	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	03/12/15	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	03/12/15	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	03/12/15	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	03/12/15	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	03/12/15	1
Ethylbenzene	180	1.9	5.0	ug/l		8260B	03/13/15	5
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	03/12/15	1

U = ND (Not Detected)  
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
 MDL = Minimum Detection Limit = LOD = TRRP SDL

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside  
 Sample ID : TSW-1 (30-35)  
 Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 09:30

ESC Sample # : L752170-02  
 Site ID :  
 Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Isopropylbenzene	16.	0.33	1.0	ug/l		8260B	03/12/15	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	03/12/15	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	03/12/15	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	03/12/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	03/12/15	1
Naphthalene	22.	1.0	5.0	ug/l		8260B	03/12/15	1
n-Propylbenzene	49.	0.35	1.0	ug/l		8260B	03/12/15	1
Styrene	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
1,1,2,2-Tetrachloroethane	U	0.13	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	03/12/15	1
Tetrachloroethene	0.43	0.37	1.0	ug/l	J	8260B	03/12/15	1
Toluene	1.9	0.78	5.0	ug/l	J	8260B	03/12/15	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	03/12/15	1
1,2,4-Trichlorobenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	03/12/15	1
1,2,4-Trimethylbenzene	53.	0.37	1.0	ug/l		8260B	03/12/15	1
1,2,3-Trimethylbenzene	55.	0.32	1.0	ug/l		8260B	03/12/15	1
1,3,5-Trimethylbenzene	16.	0.39	1.0	ug/l		8260B	03/12/15	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	03/12/15	1
Xylenes, Total	130	1.1	3.0	ug/l		8260B	03/12/15	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/12/15	1
Dibromofluoromethane	98.3			% Rec.		8260B	03/12/15	1
4-Bromofluorobenzene	92.3			% Rec.		8260B	03/12/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	490	22.	100	ug/l		8015	03/10/15	1
C28-C40 Oil Range	150	12.	100	ug/l		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	92.8			% Rec.		8015	03/10/15	1

U = ND (Not Detected)  
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
 MDL = Minimum Detection Limit = LOD = TRRP SDL

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-03

Sample ID : TSW-2 (25-26)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 11:00

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	97.8	0.0333		%		2540 G-2	03/11/15	1
TPHG C5 - C12	1.9	0.17	0.51	mg/kg		8015	03/12/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8015	03/12/15	1
Volatile Organics								
Acetone	U	0.050	0.26	mg/kg		8260B	03/11/15	5
Acrylonitrile	U	0.0090	0.051	mg/kg		8260B	03/11/15	5
Benzene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Bromobenzene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Bromodichloromethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
Bromoform	U	0.0021	0.0051	mg/kg		8260B	03/11/15	5
Bromomethane	U	0.0067	0.026	mg/kg		8260B	03/11/15	5
n-Butylbenzene	0.12	0.0013	0.0051	mg/kg		8260B	03/11/15	5
sec-Butylbenzene	0.021	0.0010	0.0051	mg/kg		8260B	03/11/15	5
tert-Butylbenzene	0.0010	0.0010	0.0051	mg/kg	J	8260B	03/11/15	5
Carbon disulfide	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Carbon tetrachloride	U	0.0016	0.0051	mg/kg		8260B	03/11/15	5
Chlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Chlorodibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/11/15	5
Chloroethane	U	0.0047	0.026	mg/kg		8260B	03/11/15	5
2-Chloroethyl vinyl ether	U	0.012	0.26	mg/kg		8260B	03/11/15	5
Chloroform	U	0.0011	0.026	mg/kg		8260B	03/11/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	03/11/15	5
2-Chlorotoluene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
4-Chlorotoluene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.026	mg/kg		8260B	03/11/15	5
1,2-Dibromoethane	U	0.0017	0.0051	mg/kg		8260B	03/11/15	5
Dibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
1,3-Dichlorobenzene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,4-Dichlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Dichlorodifluoromethane	U	0.0036	0.026	mg/kg		8260B	03/11/15	5
1,1-Dichloroethane	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichloroethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,1-Dichloroethene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,2-Dichloropropane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
1,1-Dichloropropene	U	0.0016	0.0051	mg/kg		8260B	03/11/15	5
1,3-Dichloropropane	U	0.0010	0.0051	mg/kg		8260B	03/11/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-03

Sample ID : TSW-2 (25-26)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 11:00

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
2,2-Dichloropropane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Di-isopropyl ether	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
Ethylbenzene	0.0022	0.0015	0.0051	mg/kg	J	8260B	03/11/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0051	mg/kg		8260B	03/11/15	5
Isopropylbenzene	0.0045	0.0012	0.0051	mg/kg	J	8260B	03/11/15	5
p-Isopropyltoluene	0.030	0.0010	0.0051	mg/kg		8260B	03/11/15	5
2-Butanone (MEK)	U	0.023	0.051	mg/kg		8260B	03/11/15	5
Methylene Chloride	U	0.0050	0.026	mg/kg		8260B	03/11/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.051	mg/kg		8260B	03/11/15	5
Methyl tert-butyl ether	U	0.0011	0.0051	mg/kg		8260B	03/11/15	5
Naphthalene	1.0	0.0050	0.026	mg/kg		8260B	03/11/15	5
n-Propylbenzene	0.037	0.0010	0.0051	mg/kg		8260B	03/11/15	5
Styrene	U	0.0012	0.0051	mg/kg		8260B	03/11/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0051	mg/kg		8260B	03/11/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0051	mg/kg		8260B	03/11/15	5
Tetrachloroethene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Toluene	U	0.0022	0.026	mg/kg		8260B	03/11/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/11/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0051	mg/kg	J3	8260B	03/11/15	5
1,1,1-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
1,1,2-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Trichloroethene	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Trichlorofluoromethane	U	0.0019	0.026	mg/kg		8260B	03/11/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	03/11/15	5
1,2,4-Trimethylbenzene	0.72	0.0010	0.0051	mg/kg		8260B	03/11/15	5
1,2,3-Trimethylbenzene	0.37	0.0014	0.0051	mg/kg		8260B	03/11/15	5
Vinyl chloride	U	0.0014	0.0051	mg/kg		8260B	03/11/15	5
1,3,5-Trimethylbenzene	0.14	0.0013	0.0051	mg/kg		8260B	03/11/15	5
Xylenes, Total	0.016	0.0035	0.015	mg/kg		8260B	03/11/15	5
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	03/11/15	1
Dibromofluoromethane	94.4			% Rec.		8260B	03/11/15	1
a,a,a-Trifluorotoluene	98.7			% Rec.		8260B	03/11/15	1
4-Bromofluorobenzene	93.2			% Rec.		8260B	03/11/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	26.	1.6	4.1	mg/kg		8015	03/10/15	1
C28-C40 Oil Range	U	0.27	4.1	mg/kg		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	81.4			% Rec.		8015	03/10/15	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-04

Sample ID : TSW-2 (30-35)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 11:25

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	5700	150	500	ug/l		8015	03/09/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	110.			% Rec.		8015	03/09/15	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	03/12/15	1
Acrolein	U	8.9	50.	ug/l		8260B	03/12/15	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	03/12/15	1
Benzene	7.8	0.33	1.0	ug/l		8260B	03/12/15	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Bromoform	U	0.47	1.0	ug/l		8260B	03/12/15	1
Bromomethane	U	0.87	5.0	ug/l		8260B	03/12/15	1
n-Butylbenzene	21.	0.36	1.0	ug/l		8260B	03/12/15	1
sec-Butylbenzene	9.0	0.36	1.0	ug/l		8260B	03/12/15	1
tert-Butylbenzene	1.4	0.40	1.0	ug/l		8260B	03/12/15	1
Carbon disulfide	0.32	0.28	1.0	ug/l	J	8260B	03/12/15	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	03/12/15	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	03/12/15	1
Chloroethane	U	0.45	5.0	ug/l		8260B	03/12/15	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	03/12/15	1
Chloroform	U	0.32	5.0	ug/l		8260B	03/12/15	1
Chloromethane	U	0.28	2.5	ug/l		8260B	03/12/15	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	03/12/15	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	03/12/15	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	03/12/15	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	03/12/15	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloroethane	5.2	0.36	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	03/12/15	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	03/12/15	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1

U = ND (Not Detected)  
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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside  
 Sample ID : TSW-2 (30-35)  
 Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 11:25

ESC Sample # : L752170-04  
 Site ID :  
 Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	03/12/15	1
Di-isopropyl ether	0.48	0.32	1.0	ug/l	J	8260B	03/12/15	1
Ethylbenzene	990	3.8	10.	ug/l		8260B	03/13/15	10
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	03/12/15	1
Isopropylbenzene	51.	0.33	1.0	ug/l		8260B	03/12/15	1
p-Isopropyltoluene	3.2	0.35	1.0	ug/l		8260B	03/12/15	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	03/12/15	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	03/12/15	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	03/12/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	03/12/15	1
Naphthalene	180	1.0	5.0	ug/l		8260B	03/12/15	1
n-Propylbenzene	140	0.35	1.0	ug/l		8260B	03/12/15	1
Styrene	0.81	0.31	1.0	ug/l	J	8260B	03/12/15	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
1,1,2,2-Tetrachloroethane	U	0.13	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	03/12/15	1
Tetrachloroethene	0.46	0.37	1.0	ug/l	J	8260B	03/12/15	1
Toluene	36.	0.78	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	03/12/15	1
1,2,4-Trichlorobenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	03/12/15	1
1,2,4-Trimethylbenzene	1500	3.7	10.	ug/l		8260B	03/13/15	10
1,2,3-Trimethylbenzene	360	3.2	10.	ug/l		8260B	03/13/15	10
1,3,5-Trimethylbenzene	200	0.39	1.0	ug/l		8260B	03/12/15	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	03/12/15	1
Xylenes, Total	2600	11.	30.	ug/l		8260B	03/13/15	10
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/12/15	1
Dibromofluoromethane	92.6			% Rec.		8260B	03/12/15	1
4-Bromofluorobenzene	71.0			% Rec.		8260B	03/12/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	410	22.	100	ug/l		8015	03/10/15	1
C28-C40 Oil Range	58.	12.	100	ug/l	J	8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	92.4			% Rec.		8015	03/10/15	1

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Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-05

Sample ID : TSW-3 (14-15)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 12:10

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	91.8	0.0333		%		2540 G-2	03/11/15	1
TPHG C5 - C12	U	0.17	0.54	mg/kg		8015	03/12/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8015	03/12/15	1
Volatile Organics								
Acetone	U	0.050	0.27	mg/kg		8260B	03/11/15	5
Acrylonitrile	U	0.0090	0.054	mg/kg		8260B	03/11/15	5
Benzene	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Bromobenzene	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Bromodichloromethane	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
Bromoform	U	0.0021	0.0054	mg/kg		8260B	03/11/15	5
Bromomethane	U	0.0067	0.027	mg/kg		8260B	03/11/15	5
n-Butylbenzene	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
sec-Butylbenzene	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
tert-Butylbenzene	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
Carbon disulfide	U	0.0011	0.0054	mg/kg		8260B	03/11/15	5
Carbon tetrachloride	U	0.0016	0.0054	mg/kg		8260B	03/11/15	5
Chlorobenzene	U	0.0011	0.0054	mg/kg		8260B	03/11/15	5
Chlorodibromomethane	U	0.0019	0.0054	mg/kg		8260B	03/11/15	5
Chloroethane	U	0.0047	0.027	mg/kg		8260B	03/11/15	5
2-Chloroethyl vinyl ether	U	0.012	0.27	mg/kg		8260B	03/11/15	5
Chloroform	U	0.0011	0.027	mg/kg		8260B	03/11/15	5
Chloromethane	U	0.0019	0.014	mg/kg		8260B	03/11/15	5
2-Chlorotoluene	U	0.0015	0.0054	mg/kg		8260B	03/11/15	5
4-Chlorotoluene	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.027	mg/kg		8260B	03/11/15	5
1,2-Dibromoethane	U	0.0017	0.0054	mg/kg		8260B	03/11/15	5
Dibromomethane	U	0.0019	0.0054	mg/kg		8260B	03/11/15	5
1,2-Dichlorobenzene	U	0.0015	0.0054	mg/kg		8260B	03/11/15	5
1,3-Dichlorobenzene	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
1,4-Dichlorobenzene	U	0.0011	0.0054	mg/kg		8260B	03/11/15	5
Dichlorodifluoromethane	U	0.0036	0.027	mg/kg		8260B	03/11/15	5
1,1-Dichloroethane	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
1,2-Dichloroethane	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
1,1-Dichloroethene	U	0.0015	0.0054	mg/kg		8260B	03/11/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
1,2-Dichloropropane	U	0.0018	0.0054	mg/kg		8260B	03/11/15	5
1,1-Dichloropropene	U	0.0016	0.0054	mg/kg		8260B	03/11/15	5
1,3-Dichloropropane	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-05

Sample ID : TSW-3 (14-15)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 12:10

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
2,2-Dichloropropane	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Di-isopropyl ether	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
Ethylbenzene	U	0.0015	0.0054	mg/kg		8260B	03/11/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0054	mg/kg		8260B	03/11/15	5
Isopropylbenzene	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
p-Isopropyltoluene	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
2-Butanone (MEK)	U	0.023	0.054	mg/kg		8260B	03/11/15	5
Methylene Chloride	U	0.0050	0.027	mg/kg		8260B	03/11/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.054	mg/kg		8260B	03/11/15	5
Methyl tert-butyl ether	U	0.0011	0.0054	mg/kg		8260B	03/11/15	5
Naphthalene	U	0.0050	0.027	mg/kg		8260B	03/11/15	5
n-Propylbenzene	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
Styrene	U	0.0012	0.0054	mg/kg		8260B	03/11/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0054	mg/kg		8260B	03/11/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0054	mg/kg		8260B	03/11/15	5
Tetrachloroethene	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Toluene	U	0.0022	0.027	mg/kg		8260B	03/11/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0054	mg/kg		8260B	03/11/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0054	mg/kg	J3	8260B	03/11/15	5
1,1,1-Trichloroethane	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
1,1,2-Trichloroethane	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Trichloroethene	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Trichlorofluoromethane	U	0.0019	0.027	mg/kg		8260B	03/11/15	5
1,2,3-Trichloropropane	U	0.0037	0.014	mg/kg		8260B	03/11/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0054	mg/kg		8260B	03/11/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
Vinyl chloride	U	0.0014	0.0054	mg/kg		8260B	03/11/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0054	mg/kg		8260B	03/11/15	5
Xylenes, Total	U	0.0035	0.016	mg/kg		8260B	03/11/15	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	03/11/15	1
Dibromofluoromethane	95.6			% Rec.		8260B	03/11/15	1
a,a,a-Trifluorotoluene	109.			% Rec.		8260B	03/11/15	1
4-Bromofluorobenzene	103.			% Rec.		8260B	03/11/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.4	mg/kg		8015	03/10/15	1
C28-C40 Oil Range	U	0.27	4.4	mg/kg		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	75.6			% Rec.		8015	03/10/15	1

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-06

Sample ID : TSW-3 (35-40)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 12:50

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	U	30.	100	ug/l		8015	03/09/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	110.			% Rec.		8015	03/09/15	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	03/12/15	1
Acrolein	U	8.9	50.	ug/l		8260B	03/12/15	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	03/12/15	1
Benzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Bromoform	U	0.47	1.0	ug/l		8260B	03/12/15	1
Bromomethane	U	0.87	5.0	ug/l		8260B	03/12/15	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	03/12/15	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	03/12/15	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	03/12/15	1
Chloroethane	U	0.45	5.0	ug/l		8260B	03/12/15	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	03/12/15	1
Chloroform	0.45	0.32	5.0	ug/l	J	8260B	03/12/15	1
Chloromethane	U	0.28	2.5	ug/l		8260B	03/12/15	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	03/12/15	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	03/12/15	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	03/12/15	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	03/12/15	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	03/12/15	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	03/12/15	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1

U = ND (Not Detected)  
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside  
 Sample ID : TSW-3 (35-40)  
 Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 12:50

ESC Sample # : L752170-06  
 Site ID :  
 Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	03/12/15	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	03/12/15	1
Ethylbenzene	0.51	0.38	1.0	ug/l	J	8260B	03/13/15	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	03/12/15	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	03/12/15	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	03/12/15	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	03/12/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	03/12/15	1
Naphthalene	U	1.0	5.0	ug/l		8260B	03/13/15	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Styrene	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
1,1,2,2-Tetrachloroethane	U	0.13	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	03/12/15	1
Tetrachloroethene	1.2	0.37	1.0	ug/l		8260B	03/12/15	1
Toluene	U	0.78	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	03/12/15	1
1,2,4-Trichlorobenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	03/12/15	1
1,2,4-Trimethylbenzene	0.83	0.37	1.0	ug/l	J	8260B	03/13/15	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	03/13/15	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	03/12/15	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	03/12/15	1
Xylenes, Total	1.1	1.1	3.0	ug/l	J	8260B	03/13/15	1
Surrogate Recovery								
Toluene-d8	100.			% Rec.		8260B	03/12/15	1
Dibromofluoromethane	97.8			% Rec.		8260B	03/12/15	1
4-Bromofluorobenzene	95.6			% Rec.		8260B	03/12/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	170	22.	100	ug/l		8015	03/10/15	1
C28-C40 Oil Range	120	12.	100	ug/l		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	89.8			% Rec.		8015	03/10/15	1

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-07

Sample ID : TSW-4 (14-15)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 13:20

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	83.2	0.0333		%		2540 G-2	03/11/15	1
TPHG C5 - C12	U	0.17	0.60	mg/kg		8015	03/12/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8015	03/12/15	1
Volatile Organics								
Acetone	U	0.050	0.30	mg/kg		8260B	03/11/15	5
Acrylonitrile	U	0.0090	0.060	mg/kg		8260B	03/11/15	5
Benzene	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Bromobenzene	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Bromodichloromethane	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
Bromoform	U	0.0021	0.0060	mg/kg		8260B	03/11/15	5
Bromomethane	U	0.0067	0.030	mg/kg		8260B	03/11/15	5
n-Butylbenzene	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
sec-Butylbenzene	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
tert-Butylbenzene	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
Carbon disulfide	U	0.0011	0.0060	mg/kg		8260B	03/11/15	5
Carbon tetrachloride	U	0.0016	0.0060	mg/kg		8260B	03/11/15	5
Chlorobenzene	U	0.0011	0.0060	mg/kg		8260B	03/11/15	5
Chlorodibromomethane	U	0.0019	0.0060	mg/kg		8260B	03/11/15	5
Chloroethane	U	0.0047	0.030	mg/kg		8260B	03/11/15	5
2-Chloroethyl vinyl ether	U	0.012	0.30	mg/kg		8260B	03/11/15	5
Chloroform	U	0.0011	0.030	mg/kg		8260B	03/11/15	5
Chloromethane	U	0.0019	0.015	mg/kg		8260B	03/11/15	5
2-Chlorotoluene	U	0.0015	0.0060	mg/kg		8260B	03/11/15	5
4-Chlorotoluene	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.030	mg/kg		8260B	03/11/15	5
1,2-Dibromoethane	U	0.0017	0.0060	mg/kg		8260B	03/11/15	5
Dibromomethane	U	0.0019	0.0060	mg/kg		8260B	03/11/15	5
1,2-Dichlorobenzene	U	0.0015	0.0060	mg/kg		8260B	03/11/15	5
1,3-Dichlorobenzene	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
1,4-Dichlorobenzene	U	0.0011	0.0060	mg/kg		8260B	03/11/15	5
Dichlorodifluoromethane	U	0.0036	0.030	mg/kg		8260B	03/11/15	5
1,1-Dichloroethane	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
1,2-Dichloroethane	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
1,1-Dichloroethene	U	0.0015	0.0060	mg/kg		8260B	03/11/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
1,2-Dichloropropane	U	0.0018	0.0060	mg/kg		8260B	03/11/15	5
1,1-Dichloropropene	U	0.0016	0.0060	mg/kg		8260B	03/11/15	5
1,3-Dichloropropane	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-07

Sample ID : TSW-4 (14-15)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 13:20

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
2,2-Dichloropropane	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Di-isopropyl ether	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
Ethylbenzene	U	0.0015	0.0060	mg/kg		8260B	03/11/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0060	mg/kg		8260B	03/11/15	5
Isopropylbenzene	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
p-Isopropyltoluene	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
2-Butanone (MEK)	U	0.023	0.060	mg/kg		8260B	03/11/15	5
Methylene Chloride	U	0.0050	0.030	mg/kg		8260B	03/11/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.060	mg/kg		8260B	03/11/15	5
Methyl tert-butyl ether	U	0.0011	0.0060	mg/kg		8260B	03/11/15	5
Naphthalene	U	0.0050	0.030	mg/kg		8260B	03/11/15	5
n-Propylbenzene	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
Styrene	U	0.0012	0.0060	mg/kg		8260B	03/11/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0060	mg/kg		8260B	03/11/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0060	mg/kg		8260B	03/11/15	5
Tetrachloroethene	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Toluene	U	0.0022	0.030	mg/kg		8260B	03/11/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0060	mg/kg		8260B	03/11/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0060	mg/kg	J3	8260B	03/11/15	5
1,1,1-Trichloroethane	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
1,1,2-Trichloroethane	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Trichloroethene	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Trichlorofluoromethane	U	0.0019	0.030	mg/kg		8260B	03/11/15	5
1,2,3-Trichloropropane	U	0.0037	0.015	mg/kg		8260B	03/11/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0060	mg/kg		8260B	03/11/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
Vinyl chloride	U	0.0014	0.0060	mg/kg		8260B	03/11/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0060	mg/kg		8260B	03/11/15	5
Xylenes, Total	U	0.0035	0.018	mg/kg		8260B	03/11/15	5
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	03/11/15	1
Dibromofluoromethane	103.			% Rec.		8260B	03/11/15	1
a,a,a-Trifluorotoluene	101.			% Rec.		8260B	03/11/15	1
4-Bromofluorobenzene	104.			% Rec.		8260B	03/11/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.8	mg/kg		8015	03/10/15	1
C28-C40 Oil Range	U	0.27	4.8	mg/kg		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	72.1			% Rec.		8015	03/10/15	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-08

Sample ID : TSW-4 (35-40)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 14:00

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	U	30.	100	ug/l		8015	03/09/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	110.			% Rec.		8015	03/09/15	1
Volatile Organics								
Acetone	U	10.	50.	ug/l		8260B	03/12/15	1
Acrolein	U	8.9	50.	ug/l		8260B	03/12/15	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	03/12/15	1
Benzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Bromoform	U	0.47	1.0	ug/l		8260B	03/12/15	1
Bromomethane	U	0.87	5.0	ug/l		8260B	03/12/15	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	03/12/15	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	03/12/15	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	03/12/15	1
Chloroethane	U	0.45	5.0	ug/l		8260B	03/12/15	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	03/12/15	1
Chloroform	U	0.32	5.0	ug/l		8260B	03/12/15	1
Chloromethane	U	0.28	2.5	ug/l		8260B	03/12/15	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	03/12/15	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	03/12/15	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	03/12/15	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	03/12/15	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
cis-1,2-Dichloroethene	0.33	0.26	1.0	ug/l	J	8260B	03/12/15	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	03/12/15	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1

U = ND (Not Detected)

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-08

Sample ID : TSW-4 (35-40)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 14:00

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	03/12/15	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	03/12/15	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	03/12/15	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	03/12/15	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	03/12/15	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	03/12/15	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	03/12/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	03/12/15	1
Naphthalene	U	1.0	5.0	ug/l		8260B	03/12/15	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Styrene	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
1,1,2,2-Tetrachloroethane	U	0.13	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	03/12/15	1
Tetrachloroethene	4.2	0.37	1.0	ug/l		8260B	03/12/15	1
Toluene	U	0.78	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	03/12/15	1
1,2,4-Trichlorobenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Trichloroethene	1.6	0.40	1.0	ug/l		8260B	03/12/15	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	03/12/15	1
1,2,4-Trimethylbenzene	0.45	0.37	1.0	ug/l	J	8260B	03/13/15	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	03/12/15	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	03/12/15	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	03/12/15	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	03/12/15	1
Dibromofluoromethane	93.4			% Rec.		8260B	03/12/15	1
4-Bromofluorobenzene	93.3			% Rec.		8260B	03/12/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	110	22.	100	ug/l		8015	03/10/15	1
C28-C40 Oil Range	37.	12.	100	ug/l	J	8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	91.6			% Rec.		8015	03/10/15	1

U = ND (Not Detected)  
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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-09

Sample ID : TSW-5 (38-39)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 16:00

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Total Solids	97.1	0.0333		%		2540 G-2	03/11/15	1
TPHG C5 - C12	U	0.17	0.51	mg/kg		8015	03/12/15	5
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	101.			% Rec.		8015	03/12/15	1
Volatile Organics								
Acetone	U	0.050	0.26	mg/kg		8260B	03/13/15	5
Acrylonitrile	U	0.0090	0.051	mg/kg		8260B	03/13/15	5
Benzene	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Bromobenzene	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Bromodichloromethane	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
Bromoform	U	0.0021	0.0051	mg/kg		8260B	03/13/15	5
Bromomethane	U	0.0067	0.026	mg/kg		8260B	03/13/15	5
n-Butylbenzene	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
sec-Butylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
tert-Butylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
Carbon disulfide	U	0.0011	0.0051	mg/kg		8260B	03/13/15	5
Carbon tetrachloride	U	0.0016	0.0051	mg/kg		8260B	03/13/15	5
Chlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/13/15	5
Chlorodibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/13/15	5
Chloroethane	U	0.0047	0.026	mg/kg		8260B	03/13/15	5
2-Chloroethyl vinyl ether	U	0.012	0.26	mg/kg		8260B	03/13/15	5
Chloroform	U	0.0011	0.026	mg/kg		8260B	03/13/15	5
Chloromethane	U	0.0019	0.013	mg/kg		8260B	03/13/15	5
2-Chlorotoluene	U	0.0015	0.0051	mg/kg		8260B	03/13/15	5
4-Chlorotoluene	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
1,2-Dibromo-3-Chloropropane	U	0.0052	0.026	mg/kg		8260B	03/13/15	5
1,2-Dibromoethane	U	0.0017	0.0051	mg/kg		8260B	03/13/15	5
Dibromomethane	U	0.0019	0.0051	mg/kg		8260B	03/13/15	5
1,2-Dichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/13/15	5
1,3-Dichlorobenzene	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
1,4-Dichlorobenzene	U	0.0011	0.0051	mg/kg		8260B	03/13/15	5
Dichlorodifluoromethane	U	0.0036	0.026	mg/kg		8260B	03/13/15	5
1,1-Dichloroethane	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
1,2-Dichloroethane	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
1,1-Dichloroethene	U	0.0015	0.0051	mg/kg		8260B	03/13/15	5
cis-1,2-Dichloroethene	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
trans-1,2-Dichloroethene	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
1,2-Dichloropropane	U	0.0018	0.0051	mg/kg		8260B	03/13/15	5
1,1-Dichloropropene	U	0.0016	0.0051	mg/kg		8260B	03/13/15	5
1,3-Dichloropropane	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
cis-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5

Results listed are dry weight basis.

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March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-09

Sample ID : TSW-5 (38-39)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 16:00

Project # : 60159016 4432

Parameter	Dry Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
trans-1,3-Dichloropropene	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
2,2-Dichloropropane	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Di-isopropyl ether	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
Ethylbenzene	U	0.0015	0.0051	mg/kg		8260B	03/13/15	5
Hexachloro-1,3-butadiene	U	0.0017	0.0051	mg/kg		8260B	03/13/15	5
Isopropylbenzene	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
p-Isopropyltoluene	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
2-Butanone (MEK)	U	0.023	0.051	mg/kg		8260B	03/13/15	5
Methylene Chloride	U	0.0050	0.026	mg/kg		8260B	03/13/15	5
4-Methyl-2-pentanone (MIBK)	U	0.0094	0.051	mg/kg		8260B	03/13/15	5
Methyl tert-butyl ether	U	0.0011	0.0051	mg/kg		8260B	03/13/15	5
Naphthalene	U	0.0050	0.026	mg/kg		8260B	03/13/15	5
n-Propylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
Styrene	U	0.0012	0.0051	mg/kg		8260B	03/13/15	5
1,1,1,2-Tetrachloroethane	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
1,1,2,2-Tetrachloroethane	U	0.0018	0.0051	mg/kg		8260B	03/13/15	5
1,1,2-Trichlorotrifluoroethane	U	0.0018	0.0051	mg/kg		8260B	03/13/15	5
Tetrachloroethene	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Toluene	U	0.0022	0.026	mg/kg		8260B	03/13/15	5
1,2,3-Trichlorobenzene	U	0.0015	0.0051	mg/kg		8260B	03/13/15	5
1,2,4-Trichlorobenzene	U	0.0019	0.0051	mg/kg		8260B	03/13/15	5
1,1,1-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
1,1,2-Trichloroethane	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Trichloroethene	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Trichlorofluoromethane	U	0.0019	0.026	mg/kg		8260B	03/13/15	5
1,2,3-Trichloropropane	U	0.0037	0.013	mg/kg		8260B	03/13/15	5
1,2,4-Trimethylbenzene	U	0.0010	0.0051	mg/kg		8260B	03/13/15	5
1,2,3-Trimethylbenzene	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
Vinyl chloride	U	0.0014	0.0051	mg/kg		8260B	03/13/15	5
1,3,5-Trimethylbenzene	U	0.0013	0.0051	mg/kg		8260B	03/13/15	5
Xylenes, Total	U	0.0035	0.015	mg/kg		8260B	03/13/15	5
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	03/13/15	1
Dibromofluoromethane	96.4			% Rec.		8260B	03/13/15	1
a,a,a-Trifluorotoluene	104.			% Rec.		8260B	03/13/15	1
4-Bromofluorobenzene	105.			% Rec.		8260B	03/13/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	U	1.6	4.1	mg/kg		8015	03/10/15	1
C28-C40 Oil Range	U	0.27	4.1	mg/kg		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	81.0			% Rec.		8015	03/10/15	1

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = TRRP SDL

RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL

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Est. 1970

REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside

ESC Sample # : L752170-10

Sample ID : TSW-5 (40-45)

Site ID :

Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 16:30

Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
TPHG C5 - C12	U	30.	100	ug/l		8015	03/09/15	1
Surrogate Recovery-% a,a,a-Trifluorotoluene(FID)	110.			% Rec.		8015	03/09/15	1
Volatile Organics								
Acetone	19.	10.	50.	ug/l	J	8260B	03/12/15	1
Acrolein	U	8.9	50.	ug/l		8260B	03/12/15	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	03/12/15	1
Benzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
Bromobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Bromodichloromethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Bromoform	U	0.47	1.0	ug/l		8260B	03/12/15	1
Bromomethane	U	0.87	5.0	ug/l		8260B	03/12/15	1
n-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
sec-Butylbenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
tert-Butylbenzene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Carbon disulfide	U	0.28	1.0	ug/l		8260B	03/12/15	1
Carbon tetrachloride	U	0.38	1.0	ug/l		8260B	03/12/15	1
Chlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Chlorodibromomethane	U	0.33	1.0	ug/l		8260B	03/12/15	1
Chloroethane	U	0.45	5.0	ug/l		8260B	03/12/15	1
2-Chloroethyl vinyl ether	U	3.0	50.	ug/l		8260B	03/12/15	1
Chloroform	U	0.32	5.0	ug/l		8260B	03/12/15	1
Chloromethane	U	0.28	2.5	ug/l		8260B	03/12/15	1
2-Chlorotoluene	U	0.38	1.0	ug/l		8260B	03/12/15	1
4-Chlorotoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	03/12/15	1
1,2-Dibromoethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,2-Dichlorobenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichlorobenzene	U	0.22	1.0	ug/l		8260B	03/12/15	1
1,4-Dichlorobenzene	U	0.27	1.0	ug/l		8260B	03/12/15	1
Dichlorodifluoromethane	U	0.55	5.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethane	U	0.26	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloroethane	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
cis-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	03/12/15	1
trans-1,2-Dichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
1,2-Dichloropropane	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1-Dichloropropene	U	0.35	1.0	ug/l		8260B	03/12/15	1
1,3-Dichloropropane	U	0.37	1.0	ug/l		8260B	03/12/15	1
cis-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1
trans-1,3-Dichloropropene	U	0.42	1.0	ug/l		8260B	03/12/15	1

U = ND (Not Detected)  
 RDL = Reported Detection Limit = LOQ = PQL = EQL = TRRP MQL  
 MDL = Minimum Detection Limit = LOD = TRRP SDL

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REPORT OF ANALYSIS

Carl Parten  
 Terracon - Irvine, CA  
 2817 McGaw Avenue  
 Irvine, CA 92614

March 13, 2015

Date Received : March 07, 2015  
 Description : Sears Store #1298 Riverside  
 Sample ID : TSW-5 (40-45)  
 Collected By : Charles H. Yoon  
 Collection Date : 03/06/15 16:30

ESC Sample # : L752170-10  
 Site ID :  
 Project # : 60159016 4432

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
2,2-Dichloropropane	U	0.32	1.0	ug/l		8260B	03/12/15	1
Di-isopropyl ether	U	0.32	1.0	ug/l		8260B	03/12/15	1
Ethylbenzene	U	0.38	1.0	ug/l		8260B	03/12/15	1
Hexachloro-1,3-butadiene	U	0.26	1.0	ug/l		8260B	03/12/15	1
Isopropylbenzene	U	0.33	1.0	ug/l		8260B	03/12/15	1
p-Isopropyltoluene	U	0.35	1.0	ug/l		8260B	03/12/15	1
2-Butanone (MEK)	U	3.9	10.	ug/l		8260B	03/12/15	1
Methylene Chloride	U	1.0	5.0	ug/l		8260B	03/12/15	1
4-Methyl-2-pentanone (MIBK)	U	2.1	10.	ug/l		8260B	03/12/15	1
Methyl tert-butyl ether	U	0.37	1.0	ug/l		8260B	03/12/15	1
Naphthalene	U	1.0	5.0	ug/l		8260B	03/12/15	1
n-Propylbenzene	U	0.35	1.0	ug/l		8260B	03/12/15	1
Styrene	U	0.31	1.0	ug/l		8260B	03/12/15	1
1,1,1,2-Tetrachloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
1,1,2,2-Tetrachloroethane	U	0.13	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichlorotrifluoroethane	U	0.30	1.0	ug/l		8260B	03/12/15	1
Tetrachloroethene	2.6	0.37	1.0	ug/l		8260B	03/12/15	1
Toluene	U	0.78	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichlorobenzene	U	0.23	1.0	ug/l		8260B	03/12/15	1
1,2,4-Trichlorobenzene	U	0.36	1.0	ug/l		8260B	03/12/15	1
1,1,1-Trichloroethane	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,1,2-Trichloroethane	U	0.38	1.0	ug/l		8260B	03/12/15	1
Trichloroethene	U	0.40	1.0	ug/l		8260B	03/12/15	1
Trichlorofluoromethane	U	1.2	5.0	ug/l		8260B	03/12/15	1
1,2,3-Trichloropropane	U	0.81	2.5	ug/l		8260B	03/12/15	1
1,2,4-Trimethylbenzene	U	0.37	1.0	ug/l		8260B	03/12/15	1
1,2,3-Trimethylbenzene	U	0.32	1.0	ug/l		8260B	03/12/15	1
1,3,5-Trimethylbenzene	U	0.39	1.0	ug/l		8260B	03/12/15	1
Vinyl chloride	U	0.26	1.0	ug/l		8260B	03/12/15	1
Xylenes, Total	U	1.1	3.0	ug/l		8260B	03/12/15	1
Surrogate Recovery								
Toluene-d8	101.			% Rec.		8260B	03/12/15	1
Dibromofluoromethane	100.			% Rec.		8260B	03/12/15	1
4-Bromofluorobenzene	96.9			% Rec.		8260B	03/12/15	1
Diesel and Oil Ranges								
C10-C28 Diesel Range	1500	22.	100	ug/l		8015	03/10/15	1
C28-C40 Oil Range	150	12.	100	ug/l		8015	03/10/15	1
Surrogate Recovery								
o-Terphenyl	95.0			% Rec.		8015	03/10/15	1

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L752170-01	WG774307	SAMP	1,2,4-Trichlorobenzene	R3024123	J3
L752170-02	WG774291	SAMP	Benzene	R3024364	J
	WG774291	SAMP	Carbon disulfide	R3024364	J
	WG774291	SAMP	Tetrachloroethene	R3024364	J
	WG774291	SAMP	Toluene	R3024364	J
L752170-03	WG774307	SAMP	tert-Butylbenzene	R3024123	J
	WG774307	SAMP	Ethylbenzene	R3024123	J
	WG774307	SAMP	Isopropylbenzene	R3024123	J
	WG774307	SAMP	1,2,4-Trichlorobenzene	R3024123	J3
L752170-04	WG774291	SAMP	Carbon disulfide	R3024364	J
	WG774291	SAMP	Di-isopropyl ether	R3024364	J
	WG774291	SAMP	Styrene	R3024364	J
	WG774291	SAMP	Tetrachloroethene	R3024364	J
	WG774648	SAMP	C28-C40 Oil Range	R3023949	J
L752170-05	WG774307	SAMP	1,2,4-Trichlorobenzene	R3024123	J3
L752170-06	WG774291	SAMP	Chloroform	R3024364	J
	WG775401	SAMP	Ethylbenzene	R3024488	J
	WG775401	SAMP	1,2,4-Trimethylbenzene	R3024488	J
	WG775401	SAMP	Xylenes, Total	R3024488	J
L752170-07	WG774307	SAMP	1,2,4-Trichlorobenzene	R3024123	J3
L752170-08	WG774291	SAMP	cis-1,2-Dichloroethene	R3024364	J
	WG775401	SAMP	1,2,4-Trimethylbenzene	R3024488	J
	WG774648	SAMP	C28-C40 Oil Range	R3023949	J
L752170-10	WG774291	SAMP	Acetone	R3024364	J

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Terracon - Irvine, CA  
 Carl Parten  
 2817 McGaw Avenue

Irvine, CA 92614

Quality Assurance Report  
 Level II

L752170

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Est. 1970

March 13, 2015

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
C10-C28 Diesel Range	< 4	mg/kg			WG774607	03/10/15 01:08
C28-C40 Oil Range	< 4	mg/kg			WG774607	03/10/15 01:08
o-Terphenyl		% Rec.	80.00	50-150	WG774607	03/10/15 01:08
TPHG C5 - C12	< .1	mg/l			WG774317	03/09/15 15:14
a,a,a-Trifluorotoluene(FID)		% Rec.	110.0	62-128	WG774317	03/09/15 15:14
Total Solids	< .1	%			WG774660	03/11/15 06:58
C10-C28 Diesel Range	< .1	mg/l			WG774648	03/10/15 13:33
C28-C40 Oil Range	< .1	mg/l			WG774648	03/10/15 13:33
o-Terphenyl		% Rec.	93.50	50-150	WG774648	03/10/15 13:33
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1,1-Trichloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1,2-Trichloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1-Dichloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,1-Dichloroethene	< .001	mg/kg			WG774307	03/11/15 12:29
1,1-Dichloropropene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2,3-Trichlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2,3-Trichloropropane	< .0025	mg/kg			WG774307	03/11/15 12:29
1,2,3-Trimethylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2,4-Trichlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2,4-Trimethylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG774307	03/11/15 12:29
1,2-Dibromoethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,2-Dichlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,2-Dichloroethane	< .001	mg/kg			WG774307	03/11/15 12:29
1,2-Dichloropropane	< .001	mg/kg			WG774307	03/11/15 12:29
1,3,5-Trimethylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,3-Dichlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
1,3-Dichloropropane	< .001	mg/kg			WG774307	03/11/15 12:29
1,4-Dichlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
2,2-Dichloropropane	< .001	mg/kg			WG774307	03/11/15 12:29
2-Butanone (MEK)	< .01	mg/kg			WG774307	03/11/15 12:29
2-Chloroethyl vinyl ether	< .05	mg/kg			WG774307	03/11/15 12:29
2-Chlorotoluene	< .001	mg/kg			WG774307	03/11/15 12:29
4-Chlorotoluene	< .001	mg/kg			WG774307	03/11/15 12:29
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG774307	03/11/15 12:29
Acetone	< .05	mg/kg			WG774307	03/11/15 12:29
Acrylonitrile	< .01	mg/kg			WG774307	03/11/15 12:29
Benzene	< .001	mg/kg			WG774307	03/11/15 12:29
Bromobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Bromodichloromethane	< .001	mg/kg			WG774307	03/11/15 12:29
Bromoform	< .001	mg/kg			WG774307	03/11/15 12:29
Bromomethane	< .005	mg/kg			WG774307	03/11/15 12:29
Carbon disulfide	< .001	mg/kg			WG774307	03/11/15 12:29
Carbon tetrachloride	< .001	mg/kg			WG774307	03/11/15 12:29
Chlorobenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Chlorodibromomethane	< .001	mg/kg			WG774307	03/11/15 12:29
Chloroethane	< .005	mg/kg			WG774307	03/11/15 12:29
Chloroform	< .005	mg/kg			WG774307	03/11/15 12:29
Chloromethane	< .0025	mg/kg			WG774307	03/11/15 12:29

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'





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March 13, 2015

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
cis-1,2-Dichloroethene	< .001	mg/kg			WG774307	03/11/15 12:29
cis-1,3-Dichloropropene	< .001	mg/kg			WG774307	03/11/15 12:29
Di-isopropyl ether	< .001	mg/kg			WG774307	03/11/15 12:29
Dibromomethane	< .001	mg/kg			WG774307	03/11/15 12:29
Dichlorodifluoromethane	< .005	mg/kg			WG774307	03/11/15 12:29
Ethylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Hexachloro-1,3-butadiene	< .001	mg/kg			WG774307	03/11/15 12:29
Isopropylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Methyl tert-butyl ether	< .001	mg/kg			WG774307	03/11/15 12:29
Methylene Chloride	< .005	mg/kg			WG774307	03/11/15 12:29
n-Butylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
n-Propylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Naphthalene	< .005	mg/kg			WG774307	03/11/15 12:29
p-Isopropyltoluene	< .001	mg/kg			WG774307	03/11/15 12:29
sec-Butylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Styrene	< .001	mg/kg			WG774307	03/11/15 12:29
tert-Butylbenzene	< .001	mg/kg			WG774307	03/11/15 12:29
Tetrachloroethene	< .001	mg/kg			WG774307	03/11/15 12:29
Toluene	< .005	mg/kg			WG774307	03/11/15 12:29
trans-1,2-Dichloroethene	< .001	mg/kg			WG774307	03/11/15 12:29
trans-1,3-Dichloropropene	< .001	mg/kg			WG774307	03/11/15 12:29
Trichloroethene	< .001	mg/kg			WG774307	03/11/15 12:29
Trichlorofluoromethane	< .005	mg/kg			WG774307	03/11/15 12:29
Vinyl chloride	< .001	mg/kg			WG774307	03/11/15 12:29
Xylenes, Total	< .003	mg/kg			WG774307	03/11/15 12:29
4-Bromofluorobenzene		% Rec.	98.20	71-126	WG774307	03/11/15 12:29
Dibromofluoromethane		% Rec.	90.90	78.3-121	WG774307	03/11/15 12:29
Toluene-d8		% Rec.	101.0	88.5-111	WG774307	03/11/15 12:29
a,a,a-Trifluorotoluene		% Rec.	106.0	85-114	WG774307	03/11/15 12:29
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1,1-Trichloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1,2-Trichloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1-Dichloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,1-Dichloroethene	< .001	mg/l			WG774291	03/12/15 10:56
1,1-Dichloropropene	< .001	mg/l			WG774291	03/12/15 10:56
1,2,3-Trichlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,2,3-Trichloropropane	< .001	mg/l			WG774291	03/12/15 10:56
1,2,3-Trimethylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,2,4-Trichlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,2,4-Trimethylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG774291	03/12/15 10:56
1,2-Dibromoethane	< .001	mg/l			WG774291	03/12/15 10:56
1,2-Dichlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,2-Dichloroethane	< .001	mg/l			WG774291	03/12/15 10:56
1,2-Dichloropropane	< .001	mg/l			WG774291	03/12/15 10:56
1,3,5-Trimethylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,3-Dichlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
1,3-Dichloropropane	< .001	mg/l			WG774291	03/12/15 10:56
1,4-Dichlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
2,2-Dichloropropane	< .001	mg/l			WG774291	03/12/15 10:56
2-Butanone (MEK)	< .01	mg/l			WG774291	03/12/15 10:56
2-Chloroethyl vinyl ether	< .05	mg/l			WG774291	03/12/15 10:56
2-Chlorotoluene	< .001	mg/l			WG774291	03/12/15 10:56
4-Chlorotoluene	< .001	mg/l			WG774291	03/12/15 10:56
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG774291	03/12/15 10:56

\* Performance of this Analyte is outside of established criteria.

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Irvine, CA 92614

Quality Assurance Report  
 Level II

L752170

12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Acetone	< .05	mg/l			WG774291	03/12/15 10:56
Acrolein	< .025	mg/l			WG774291	03/12/15 10:56
Acrylonitrile	< .01	mg/l			WG774291	03/12/15 10:56
Benzene	< .001	mg/l			WG774291	03/12/15 10:56
Bromobenzene	< .001	mg/l			WG774291	03/12/15 10:56
Bromodichloromethane	< .001	mg/l			WG774291	03/12/15 10:56
Bromoform	< .001	mg/l			WG774291	03/12/15 10:56
Bromomethane	< .005	mg/l			WG774291	03/12/15 10:56
Carbon disulfide	< .001	mg/l			WG774291	03/12/15 10:56
Carbon tetrachloride	< .001	mg/l			WG774291	03/12/15 10:56
Chlorobenzene	< .001	mg/l			WG774291	03/12/15 10:56
Chlorodibromomethane	< .001	mg/l			WG774291	03/12/15 10:56
Chloroethane	< .005	mg/l			WG774291	03/12/15 10:56
Chloroform	< .005	mg/l			WG774291	03/12/15 10:56
Chloromethane	< .0025	mg/l			WG774291	03/12/15 10:56
cis-1,2-Dichloroethene	< .001	mg/l			WG774291	03/12/15 10:56
cis-1,3-Dichloropropene	< .001	mg/l			WG774291	03/12/15 10:56
Di-isopropyl ether	< .001	mg/l			WG774291	03/12/15 10:56
Dibromomethane	< .001	mg/l			WG774291	03/12/15 10:56
Dichlorodifluoromethane	< .005	mg/l			WG774291	03/12/15 10:56
Ethylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
Hexachloro-1,3-butadiene	< .001	mg/l			WG774291	03/12/15 10:56
Isopropylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
Methyl tert-butyl ether	< .001	mg/l			WG774291	03/12/15 10:56
Methylene Chloride	< .005	mg/l			WG774291	03/12/15 10:56
n-Butylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
n-Propylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
Naphthalene	< .005	mg/l			WG774291	03/12/15 10:56
p-Isopropyltoluene	< .001	mg/l			WG774291	03/12/15 10:56
sec-Butylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
Styrene	< .001	mg/l			WG774291	03/12/15 10:56
tert-Butylbenzene	< .001	mg/l			WG774291	03/12/15 10:56
Tetrachloroethene	< .001	mg/l			WG774291	03/12/15 10:56
Toluene	< .005	mg/l			WG774291	03/12/15 10:56
trans-1,2-Dichloroethene	< .001	mg/l			WG774291	03/12/15 10:56
trans-1,3-Dichloropropene	< .001	mg/l			WG774291	03/12/15 10:56
Trichloroethene	< .001	mg/l			WG774291	03/12/15 10:56
Trichlorofluoromethane	< .005	mg/l			WG774291	03/12/15 10:56
Vinyl chloride	< .001	mg/l			WG774291	03/12/15 10:56
Xylenes, Total	< .003	mg/l			WG774291	03/12/15 10:56
4-Bromofluorobenzene		% Rec.	93.20	71-126	WG774291	03/12/15 10:56
Dibromofluoromethane		% Rec.	96.20	78.3-121	WG774291	03/12/15 10:56
Toluene-d8		% Rec.	100.0	88.5-111	WG774291	03/12/15 10:56
a,a,a-Trifluorotoluene		% Rec.	101.0	85-114	WG774291	03/12/15 10:56
1,2,3-Trimethylbenzene	< .001	mg/l			WG775401	03/12/15 20:59
1,2,4-Trimethylbenzene	< .001	mg/l			WG775401	03/12/15 20:59
Ethylbenzene	< .001	mg/l			WG775401	03/12/15 20:59
Naphthalene	< .005	mg/l			WG775401	03/12/15 20:59
Xylenes, Total	< .003	mg/l			WG775401	03/12/15 20:59
4-Bromofluorobenzene		% Rec.	111.0	71-126	WG775401	03/12/15 20:59
Dibromofluoromethane		% Rec.	94.90	78.3-121	WG775401	03/12/15 20:59
Toluene-d8		% Rec.	103.0	88.5-111	WG775401	03/12/15 20:59
a,a,a-Trifluorotoluene		% Rec.	108.0	85-114	WG775401	03/12/15 20:59
TPHG C5 - C12	< .1	mg/kg			WG774452	03/12/15 13:14
a,a,a-Trifluorotoluene(FID)		% Rec.	102.0	59-128	WG774452	03/12/15 13:14

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1,1-Trichloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1,2-Trichloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1-Dichloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,1-Dichloroethene	< .001	mg/kg			WG775215	03/13/15 01:33
1,1-Dichloropropene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2,3-Trichlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2,3-Trichloropropane	< .0025	mg/kg			WG775215	03/13/15 01:33
1,2,3-Trimethylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2,4-Trichlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2,4-Trimethylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG775215	03/13/15 01:33
1,2-Dibromoethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,2-Dichlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,2-Dichloroethane	< .001	mg/kg			WG775215	03/13/15 01:33
1,2-Dichloropropane	< .001	mg/kg			WG775215	03/13/15 01:33
1,3,5-Trimethylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,3-Dichlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
1,3-Dichloropropane	< .001	mg/kg			WG775215	03/13/15 01:33
1,4-Dichlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
2,2-Dichloropropane	< .001	mg/kg			WG775215	03/13/15 01:33
2-Butanone (MEK)	< .01	mg/kg			WG775215	03/13/15 01:33
2-Chloroethyl vinyl ether	< .05	mg/kg			WG775215	03/13/15 01:33
2-Chlorotoluene	< .001	mg/kg			WG775215	03/13/15 01:33
4-Chlorotoluene	< .001	mg/kg			WG775215	03/13/15 01:33
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG775215	03/13/15 01:33
Acetone	< .05	mg/kg			WG775215	03/13/15 01:33
Acrylonitrile	< .01	mg/kg			WG775215	03/13/15 01:33
Benzene	< .001	mg/kg			WG775215	03/13/15 01:33
Bromobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Bromodichloromethane	< .001	mg/kg			WG775215	03/13/15 01:33
Bromoform	< .001	mg/kg			WG775215	03/13/15 01:33
Bromomethane	< .005	mg/kg			WG775215	03/13/15 01:33
Carbon disulfide	< .001	mg/kg			WG775215	03/13/15 01:33
Carbon tetrachloride	< .001	mg/kg			WG775215	03/13/15 01:33
Chlorobenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Chlorodibromomethane	< .001	mg/kg			WG775215	03/13/15 01:33
Chloroethane	< .005	mg/kg			WG775215	03/13/15 01:33
Chloroform	< .005	mg/kg			WG775215	03/13/15 01:33
Chloromethane	< .0025	mg/kg			WG775215	03/13/15 01:33
cis-1,2-Dichloroethene	< .001	mg/kg			WG775215	03/13/15 01:33
cis-1,3-Dichloropropene	< .001	mg/kg			WG775215	03/13/15 01:33
Di-isopropyl ether	< .001	mg/kg			WG775215	03/13/15 01:33
Dibromomethane	< .001	mg/kg			WG775215	03/13/15 01:33
Dichlorodifluoromethane	< .005	mg/kg			WG775215	03/13/15 01:33
Ethylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Hexachloro-1,3-butadiene	< .001	mg/kg			WG775215	03/13/15 01:33
Isopropylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Methyl tert-butyl ether	< .001	mg/kg			WG775215	03/13/15 01:33
Methylene Chloride	< .005	mg/kg			WG775215	03/13/15 01:33
n-Butylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
n-Propylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Naphthalene	< .005	mg/kg			WG775215	03/13/15 01:33
p-Isopropyltoluene	< .001	mg/kg			WG775215	03/13/15 01:33
sec-Butylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33
Styrene	< .001	mg/kg			WG775215	03/13/15 01:33
tert-Butylbenzene	< .001	mg/kg			WG775215	03/13/15 01:33

\* Performance of this Analyte is outside of established criteria.

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 Level II

L752170

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Tetrachloroethene	< .001	mg/kg			WG775215	03/13/15 01:33
Toluene	< .005	mg/kg			WG775215	03/13/15 01:33
trans-1,2-Dichloroethene	< .001	mg/kg			WG775215	03/13/15 01:33
trans-1,3-Dichloropropene	< .001	mg/kg			WG775215	03/13/15 01:33
Trichloroethene	< .001	mg/kg			WG775215	03/13/15 01:33
Trichlorofluoromethane	< .005	mg/kg			WG775215	03/13/15 01:33
Vinyl chloride	< .001	mg/kg			WG775215	03/13/15 01:33
Xylenes, Total	< .003	mg/kg			WG775215	03/13/15 01:33
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG775215	03/13/15 01:33
Dibromofluoromethane		% Rec.	95.20	78.3-121	WG775215	03/13/15 01:33
Toluene-d8		% Rec.	102.0	88.5-111	WG775215	03/13/15 01:33
a,a,a-Trifluorotoluene		% Rec.	106.0	85-114	WG775215	03/13/15 01:33

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	RPD				
Total Solids	%	79.6	79.4	0.246	5	L752168-04	WG774660	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
C10-C28 Diesel Range	mg/kg	60	48.3	80.4	50-100	WG774607
o-Terphenyl				82.40	50-150	WG774607
TPHG C5 - C12	mg/l	5.5	5.40	98.2	64-125	WG774317
a,a,a-Trifluorotoluene(FID)				108.0	62-128	WG774317
Total Solids	%	50	50.0	100.	85-115	WG774660

1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0281	112.	72.9-124	WG774307
1,1,1-Trichloroethane	mg/kg	.025	0.0230	91.9	73.7-124	WG774307
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0296	118.	69.4-122	WG774307
1,1,2-Trichloroethane	mg/kg	.025	0.0264	105.	79.1-118	WG774307
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0246	98.4	70-146	WG774307
1,1-Dichloroethane	mg/kg	.025	0.0244	97.6	75-124	WG774307
1,1-Dichloroethene	mg/kg	.025	0.0240	96.0	70.4-129	WG774307
1,1-Dichloropropene	mg/kg	.025	0.0242	96.9	74.9-124	WG774307
1,2,3-Trichlorobenzene	mg/kg	.025	0.0264	106.	69.3-131	WG774307
1,2,3-Trichloropropane	mg/kg	.025	0.0298	119.	71.4-123	WG774307
1,2,3-Trimethylbenzene	mg/kg	.025	0.0257	103.	73.6-113	WG774307
1,2,4-Trichlorobenzene	mg/kg	.025	0.0281	112.	71.9-137	WG774307
1,2,4-Trimethylbenzene	mg/kg	.025	0.0262	105.	75.5-122	WG774307
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0265	106.	62.8-133	WG774307
1,2-Dibromoethane	mg/kg	.025	0.0255	102.	78.6-120	WG774307
1,2-Dichlorobenzene	mg/kg	.025	0.0264	106.	78.3-118	WG774307
1,2-Dichloroethane	mg/kg	.025	0.0240	96.0	70.1-124	WG774307
1,2-Dichloropropane	mg/kg	.025	0.0251	100.	77.9-119	WG774307
1,3,5-Trimethylbenzene	mg/kg	.025	0.0273	109.	75.9-124	WG774307
1,3-Dichlorobenzene	mg/kg	.025	0.0291	116.	72-126	WG774307
1,3-Dichloropropane	mg/kg	.025	0.0259	104.	79.1-117	WG774307
1,4-Dichlorobenzene	mg/kg	.025	0.0242	97.0	78.3-117	WG774307
2,2-Dichloropropane	mg/kg	.025	0.0241	96.5	61.3-136	WG774307
2-Butanone (MEK)	mg/kg	.125	0.125	100.	53.7-153	WG774307
2-Chloroethyl vinyl ether	mg/kg	.125	0.137	110.	37.7-157	WG774307
2-Chlorotoluene	mg/kg	.025	0.0271	109.	75.6-121	WG774307
4-Chlorotoluene	mg/kg	.025	0.0261	104.	77.3-120	WG774307

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March 13, 2015

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.145	116.	70.4-137	WG774307
Acetone	mg/kg	.125	0.124	99.5	35.1-175	WG774307
Acrylonitrile	mg/kg	.125	0.124	98.9	56.4-128	WG774307
Benzene	mg/kg	.025	0.0227	90.6	77.1-121	WG774307
Bromobenzene	mg/kg	.025	0.0270	108.	78.2-115	WG774307
Bromodichloromethane	mg/kg	.025	0.0237	95.0	74.9-115	WG774307
Bromoform	mg/kg	.025	0.0265	106.	65.9-132	WG774307
Bromomethane	mg/kg	.025	0.0276	111.	48.7-165	WG774307
Carbon disulfide	mg/kg	.025	0.0232	92.7	66.9-145	WG774307
Carbon tetrachloride	mg/kg	.025	0.0229	91.6	70-124	WG774307
Chlorobenzene	mg/kg	.025	0.0259	104.	79.1-119	WG774307
Chlorodibromomethane	mg/kg	.025	0.0256	102.	73.5-121	WG774307
Chloroethane	mg/kg	.025	0.0246	98.3	66.2-132	WG774307
Chloroform	mg/kg	.025	0.0239	95.6	76.7-122	WG774307
Chloromethane	mg/kg	.025	0.0234	93.7	63.4-131	WG774307
cis-1,2-Dichloroethene	mg/kg	.025	0.0234	93.7	78.2-119	WG774307
cis-1,3-Dichloropropene	mg/kg	.025	0.0264	106.	79.6-120	WG774307
Di-isopropyl ether	mg/kg	.025	0.0231	92.5	70.4-133	WG774307
Dibromomethane	mg/kg	.025	0.0264	106.	79.4-120	WG774307
Dichlorodifluoromethane	mg/kg	.025	0.0222	88.7	57.1-137	WG774307
Ethylbenzene	mg/kg	.025	0.0272	109.	79.7-122	WG774307
Hexachloro-1,3-butadiene	mg/kg	.025	0.0253	101.	68.2-123	WG774307
Isopropylbenzene	mg/kg	.025	0.0250	99.9	80-135	WG774307
Methyl tert-butyl ether	mg/kg	.025	0.0232	92.9	73-129	WG774307
Methylene Chloride	mg/kg	.025	0.0226	90.5	72.6-120	WG774307
n-Butylbenzene	mg/kg	.025	0.0283	113.	77.5-126	WG774307
n-Propylbenzene	mg/kg	.025	0.0251	101.	77.9-123	WG774307
Naphthalene	mg/kg	.025	0.0263	105.	69.8-128	WG774307
p-Isopropyltoluene	mg/kg	.025	0.0288	115.	75.8-129	WG774307
sec-Butylbenzene	mg/kg	.025	0.0265	106.	75.8-126	WG774307
Styrene	mg/kg	.025	0.0273	109.	82.4-126	WG774307
tert-Butylbenzene	mg/kg	.025	0.0276	110.	76.4-126	WG774307
Tetrachloroethene	mg/kg	.025	0.0280	112.	73.9-125	WG774307
Toluene	mg/kg	.025	0.0252	101.	79.7-118	WG774307
trans-1,2-Dichloroethene	mg/kg	.025	0.0233	93.3	73.8-122	WG774307
trans-1,3-Dichloropropene	mg/kg	.025	0.0272	109.	75.9-124	WG774307
Trichloroethene	mg/kg	.025	0.0258	103.	77.9-118	WG774307
Trichlorofluoromethane	mg/kg	.025	0.0238	95.4	67.7-131	WG774307
Vinyl chloride	mg/kg	.025	0.0242	96.8	66.7-130	WG774307
Xylenes, Total	mg/kg	.075	0.0805	107.	78.8-121	WG774307
4-Bromofluorobenzene				106.0	71-126	WG774307
Dibromofluoromethane				96.80	78.3-121	WG774307
Toluene-d8				110.0	88.5-111	WG774307
a,a,a-Trifluorotoluene				105.0	85-114	WG774307
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0253	101.	74.2-124	WG774291
1,1,1-Trichloroethane	mg/l	.025	0.0227	90.7	73.2-123	WG774291
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0242	96.9	70.7-122	WG774291
1,1,2-Trichloroethane	mg/l	.025	0.0243	97.3	77.7-118	WG774291
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0238	95.2	67.2-143	WG774291
1,1-Dichloroethane	mg/l	.025	0.0227	91.0	70.7-126	WG774291
1,1-Dichloroethene	mg/l	.025	0.0226	90.6	67.8-129	WG774291
1,1-Dichloropropene	mg/l	.025	0.0232	92.7	73.1-125	WG774291
1,2,3-Trichlorobenzene	mg/l	.025	0.0218	87.2	64.9-135	WG774291
1,2,3-Trichloropropane	mg/l	.025	0.0229	91.5	71.8-121	WG774291
1,2,3-Trimethylbenzene	mg/l	.025	0.0245	98.2	72.3-116	WG774291
1,2,4-Trichlorobenzene	mg/l	.025	0.0220	87.9	69.7-136	WG774291
1,2,4-Trimethylbenzene	mg/l	.025	0.0228	91.1	75-123	WG774291

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**YOUR LAB OF CHOICE**

Terracon - Irvine, CA  
 Carl Parten  
 2817 McGaw Avenue  
 Irvine, CA 92614

Quality Assurance Report  
 Level II  
 L752170

12065 Lebanon Rd.  
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 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0217	87.0	65.4-128	WG774291
1,2-Dibromoethane	mg/l	.025	0.0241	96.5	76.6-121	WG774291
1,2-Dichlorobenzene	mg/l	.025	0.0247	98.9	78.4-117	WG774291
1,2-Dichloroethane	mg/l	.025	0.0241	96.5	68.8-124	WG774291
1,2-Dichloropropane	mg/l	.025	0.0249	99.6	76.5-119	WG774291
1,3,5-Trimethylbenzene	mg/l	.025	0.0235	94.1	75.6-124	WG774291
1,3-Dichlorobenzene	mg/l	.025	0.0233	93.3	70.8-128	WG774291
1,3-Dichloropropane	mg/l	.025	0.0234	93.7	77.4-117	WG774291
1,4-Dichlorobenzene	mg/l	.025	0.0258	103.	78.8-115	WG774291
2,2-Dichloropropane	mg/l	.025	0.0190	76.2	62.4-133	WG774291
2-Butanone (MEK)	mg/l	.125	0.118	94.3	55-149	WG774291
2-Chloroethyl vinyl ether	mg/l	.125	0.121	96.4	43.8-150	WG774291
2-Chlorotoluene	mg/l	.025	0.0240	96.2	74.7-122	WG774291
4-Chlorotoluene	mg/l	.025	0.0225	90.1	77.5-120	WG774291
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.122	97.5	70.5-133	WG774291
Acetone	mg/l	.125	0.111	88.4	35.6-163	WG774291
Acrolein	mg/l	.125	0.0555	44.4	10-190	WG774291
Acrylonitrile	mg/l	.125	0.114	91.2	55.2-130	WG774291
Benzene	mg/l	.025	0.0229	91.6	74.8-121	WG774291
Bromobenzene	mg/l	.025	0.0228	91.1	77.5-116	WG774291
Bromodichloromethane	mg/l	.025	0.0249	99.7	75.1-116	WG774291
Bromoform	mg/l	.025	0.0249	99.8	67.5-130	WG774291
Bromomethane	mg/l	.025	0.0381	152.	49.9-162	WG774291
Carbon disulfide	mg/l	.025	0.0219	87.7	64.6-140	WG774291
Carbon tetrachloride	mg/l	.025	0.0234	93.6	70.2-123	WG774291
Chlorobenzene	mg/l	.025	0.0248	99.3	78.1-119	WG774291
Chlorodibromomethane	mg/l	.025	0.0246	98.2	74-121	WG774291
Chloroethane	mg/l	.025	0.0326	131.	61.7-135	WG774291
Chloroform	mg/l	.025	0.0221	88.5	76-121	WG774291
Chloromethane	mg/l	.025	0.0233	93.2	61.5-129	WG774291
cis-1,2-Dichloroethene	mg/l	.025	0.0227	90.7	76-119	WG774291
cis-1,3-Dichloropropene	mg/l	.025	0.0238	95.3	78.2-120	WG774291
Di-isopropyl ether	mg/l	.025	0.0223	89.2	65.6-132	WG774291
Dibromomethane	mg/l	.025	0.0251	100.	79.5-118	WG774291
Dichlorodifluoromethane	mg/l	.025	0.0239	95.6	54.8-135	WG774291
Ethylbenzene	mg/l	.025	0.0246	98.3	78.8-122	WG774291
Hexachloro-1,3-butadiene	mg/l	.025	0.0216	86.6	64.7-129	WG774291
Isopropylbenzene	mg/l	.025	0.0238	95.1	78.6-132	WG774291
Methyl tert-butyl ether	mg/l	.025	0.0223	89.3	71.2-126	WG774291
Methylene Chloride	mg/l	.025	0.0223	89.1	70.3-120	WG774291
n-Butylbenzene	mg/l	.025	0.0245	97.9	76.2-126	WG774291
n-Propylbenzene	mg/l	.025	0.0238	95.2	78.2-122	WG774291
Naphthalene	mg/l	.025	0.0207	82.8	68.4-128	WG774291
p-Isopropyltoluene	mg/l	.025	0.0229	91.5	74-131	WG774291
sec-Butylbenzene	mg/l	.025	0.0234	93.4	74.4-127	WG774291
Styrene	mg/l	.025	0.0233	93.2	80.4-126	WG774291
tert-Butylbenzene	mg/l	.025	0.0229	91.8	75.3-126	WG774291
Tetrachloroethene	mg/l	.025	0.0258	103.	72.6-126	WG774291
Toluene	mg/l	.025	0.0237	94.7	79.7-116	WG774291
trans-1,2-Dichloroethene	mg/l	.025	0.0220	88.1	72.6-121	WG774291
trans-1,3-Dichloropropene	mg/l	.025	0.0251	100.	74.3-123	WG774291
Trichloroethene	mg/l	.025	0.0251	100.	77.7-118	WG774291
Trichlorofluoromethane	mg/l	.025	0.0238	95.2	63.5-135	WG774291
Vinyl chloride	mg/l	.025	0.0280	112.	65.9-128	WG774291
Xylenes, Total	mg/l	.075	0.0732	97.5	78.7-121	WG774291
4-Bromofluorobenzene				88.60	71-126	WG774291
Dibromofluoromethane				95.60	78.3-121	WG774291
Toluene-d8				102.0	88.5-111	WG774291
a,a,a-Trifluorotoluene				97.70	85-114	WG774291

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 Level II

L752170

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,2,3-Trimethylbenzene	mg/l	.025	0.0241	96.3	72.3-116	WG775401
1,2,4-Trimethylbenzene	mg/l	.025	0.0263	105.	75-123	WG775401
Ethylbenzene	mg/l	.025	0.0243	97.3	78.8-122	WG775401
Naphthalene	mg/l	.025	0.0237	94.8	68.4-128	WG775401
Xylenes, Total	mg/l	.075	0.0787	105.	78.7-121	WG775401
4-Bromofluorobenzene				103.0	71-126	WG775401
Dibromofluoromethane				91.90	78.3-121	WG775401
Toluene-d8				101.0	88.5-111	WG775401
a,a,a-Trifluorotoluene				107.0	85-114	WG775401
TPHG C5 - C12	mg/kg	5.5	5.27	95.8	60-130	WG774452
a,a,a-Trifluorotoluene(FID)				99.40	59-128	WG774452
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0267	107.	72.9-124	WG775215
1,1,1-Trichloroethane	mg/kg	.025	0.0227	90.6	73.7-124	WG775215
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0262	105.	69.4-122	WG775215
1,1,2-Trichloroethane	mg/kg	.025	0.0256	102.	79.1-118	WG775215
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0236	94.6	70-146	WG775215
1,1-Dichloroethane	mg/kg	.025	0.0235	94.2	75-124	WG775215
1,1-Dichloroethene	mg/kg	.025	0.0242	96.7	70.4-129	WG775215
1,1-Dichloropropene	mg/kg	.025	0.0244	97.8	74.9-124	WG775215
1,2,3-Trichlorobenzene	mg/kg	.025	0.0255	102.	69.3-131	WG775215
1,2,3-Trichloropropane	mg/kg	.025	0.0258	103.	71.4-123	WG775215
1,2,3-Trimethylbenzene	mg/kg	.025	0.0233	93.1	73.6-113	WG775215
1,2,4-Trichlorobenzene	mg/kg	.025	0.0255	102.	71.9-137	WG775215
1,2,4-Trimethylbenzene	mg/kg	.025	0.0242	96.9	75.5-122	WG775215
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0286	114.	62.8-133	WG775215
1,2-Dibromoethane	mg/kg	.025	0.0267	107.	78.6-120	WG775215
1,2-Dichlorobenzene	mg/kg	.025	0.0246	98.3	78.3-118	WG775215
1,2-Dichloroethane	mg/kg	.025	0.0253	101.	70.1-124	WG775215
1,2-Dichloropropane	mg/kg	.025	0.0237	94.6	77.9-119	WG775215
1,3,5-Trimethylbenzene	mg/kg	.025	0.0247	98.9	75.9-124	WG775215
1,3-Dichlorobenzene	mg/kg	.025	0.0252	101.	72-126	WG775215
1,3-Dichloropropane	mg/kg	.025	0.0253	101.	79.1-117	WG775215
1,4-Dichlorobenzene	mg/kg	.025	0.0237	94.8	78.3-117	WG775215
2,2-Dichloropropane	mg/kg	.025	0.0202	80.7	61.3-136	WG775215
2-Butanone (MEK)	mg/kg	.125	0.151	121.	53.7-153	WG775215
2-Chloroethyl vinyl ether	mg/kg	.125	0.141	113.	37.7-157	WG775215
2-Chlorotoluene	mg/kg	.025	0.0240	96.0	75.6-121	WG775215
4-Chlorotoluene	mg/kg	.025	0.0239	95.6	77.3-120	WG775215
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.155	124.	70.4-137	WG775215
Acetone	mg/kg	.125	0.145	116.	35.1-175	WG775215
Acrylonitrile	mg/kg	.125	0.138	110.	56.4-128	WG775215
Benzene	mg/kg	.025	0.0245	98.2	77.1-121	WG775215
Bromobenzene	mg/kg	.025	0.0234	93.7	78.2-115	WG775215
Bromodichloromethane	mg/kg	.025	0.0236	94.2	74.9-115	WG775215
Bromoform	mg/kg	.025	0.0265	106.	65.9-132	WG775215
Bromomethane	mg/kg	.025	0.0199	79.6	48.7-165	WG775215
Carbon disulfide	mg/kg	.025	0.0217	86.8	66.9-145	WG775215
Carbon tetrachloride	mg/kg	.025	0.0255	102.	70-124	WG775215
Chlorobenzene	mg/kg	.025	0.0250	100.	79.1-119	WG775215
Chlorodibromomethane	mg/kg	.025	0.0265	106.	73.5-121	WG775215
Chloroethane	mg/kg	.025	0.0201	80.3	66.2-132	WG775215
Chloroform	mg/kg	.025	0.0236	94.6	76.7-122	WG775215
Chloromethane	mg/kg	.025	0.0222	88.6	63.4-131	WG775215
cis-1,2-Dichloroethene	mg/kg	.025	0.0245	98.0	78.2-119	WG775215
cis-1,3-Dichloropropene	mg/kg	.025	0.0248	99.3	79.6-120	WG775215

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Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Di-isopropyl ether	mg/kg	.025	0.0240	95.9	70.4-133	WG775215
Dibromomethane	mg/kg	.025	0.0248	99.1	79.4-120	WG775215
Dichlorodifluoromethane	mg/kg	.025	0.0230	92.0	57.1-137	WG775215
Ethylbenzene	mg/kg	.025	0.0244	97.5	79.7-122	WG775215
Hexachloro-1,3-butadiene	mg/kg	.025	0.0250	100.	68.2-123	WG775215
Isopropylbenzene	mg/kg	.025	0.0244	97.8	80-135	WG775215
Methyl tert-butyl ether	mg/kg	.025	0.0256	102.	73-129	WG775215
Methylene Chloride	mg/kg	.025	0.0234	93.6	72.6-120	WG775215
n-Butylbenzene	mg/kg	.025	0.0235	94.1	77.5-126	WG775215
n-Propylbenzene	mg/kg	.025	0.0241	96.5	77.9-123	WG775215
Naphthalene	mg/kg	.025	0.0259	103.	69.8-128	WG775215
p-Isopropyltoluene	mg/kg	.025	0.0252	101.	75.8-129	WG775215
sec-Butylbenzene	mg/kg	.025	0.0244	97.8	75.8-126	WG775215
Styrene	mg/kg	.025	0.0253	101.	82.4-126	WG775215
tert-Butylbenzene	mg/kg	.025	0.0254	102.	76.4-126	WG775215
Tetrachloroethene	mg/kg	.025	0.0257	103.	73.9-125	WG775215
Toluene	mg/kg	.025	0.0245	98.0	79.7-118	WG775215
trans-1,2-Dichloroethene	mg/kg	.025	0.0248	99.3	73.8-122	WG775215
trans-1,3-Dichloropropene	mg/kg	.025	0.0266	106.	75.9-124	WG775215
Trichloroethene	mg/kg	.025	0.0265	106.	77.9-118	WG775215
Trichlorofluoromethane	mg/kg	.025	0.0196	78.5	67.7-131	WG775215
Vinyl chloride	mg/kg	.025	0.0237	94.9	66.7-130	WG775215
Xylenes, Total	mg/kg	.075	0.0731	97.4	78.8-121	WG775215
4-Bromofluorobenzene				99.30	71-126	WG775215
Dibromofluoromethane				98.40	78.3-121	WG775215
Toluene-d8				102.0	88.5-111	WG775215
a,a,a-Trifluorotoluene				103.0	85-114	WG775215

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
C10-C28 Diesel Range	mg/kg	50.0	48.3	83.0	50-100	3.56	20	WG774607
o-Terphenyl				85.30	50-150			WG774607
TPHG C5 - C12	mg/l	5.28	5.40	96.0	64-125	2.36	20	WG774317
a,a,a-Trifluorotoluene(FID)				107.0	62-128			WG774317
1,1,1,2-Tetrachloroethane	mg/kg	0.0274	0.0281	110.	72.9-124	2.53	20	WG774307
1,1,1-Trichloroethane	mg/kg	0.0248	0.0230	99.0	73.7-124	7.70	20	WG774307
1,1,2,2-Tetrachloroethane	mg/kg	0.0278	0.0296	111.	69.4-122	6.11	20	WG774307
1,1,2-Trichloroethane	mg/kg	0.0262	0.0264	105.	79.1-118	0.520	20	WG774307
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0255	0.0246	102.	70-146	3.66	20	WG774307
1,1-Dichloroethane	mg/kg	0.0236	0.0244	94.0	75-124	3.16	20	WG774307
1,1-Dichloroethene	mg/kg	0.0256	0.0240	102.	70.4-129	6.35	20	WG774307
1,1-Dichloropropene	mg/kg	0.0249	0.0242	100.	74.9-124	2.62	20	WG774307
1,2,3-Trichlorobenzene	mg/kg	0.0252	0.0264	101.	69.3-131	4.49	20	WG774307
1,2,3-Trichloropropane	mg/kg	0.0297	0.0298	119.	71.4-123	0.260	20	WG774307
1,2,3-Trimethylbenzene	mg/kg	0.0237	0.0257	95.0	73.6-113	7.86	20	WG774307
1,2,4-Trichlorobenzene	mg/kg	0.0229	0.0281	92.0	71.9-137	20.2*	20	WG774307
1,2,4-Trimethylbenzene	mg/kg	0.0263	0.0262	105.	75.5-122	0.220	20	WG774307
1,2-Dibromo-3-Chloropropane	mg/kg	0.0246	0.0265	98.0	62.8-133	7.23	20	WG774307
1,2-Dibromoethane	mg/kg	0.0254	0.0255	102.	78.6-120	0.140	20	WG774307
1,2-Dichlorobenzene	mg/kg	0.0258	0.0264	103.	78.3-118	2.49	20	WG774307
1,2-Dichloroethane	mg/kg	0.0242	0.0240	97.0	70.1-124	0.920	20	WG774307
1,2-Dichloropropane	mg/kg	0.0260	0.0251	104.	77.9-119	3.44	20	WG774307
1,3,5-Trimethylbenzene	mg/kg	0.0264	0.0273	105.	75.9-124	3.40	20	WG774307
1,3-Dichlorobenzene	mg/kg	0.0260	0.0291	104.	72-126	11.1	20	WG774307

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,3-Dichloropropane	mg/kg	0.0241	0.0259	96.0	79.1-117	7.03	20	WG774307
1,4-Dichlorobenzene	mg/kg	0.0240	0.0242	96.0	78.3-117	1.19	20	WG774307
2,2-Dichloropropane	mg/kg	0.0245	0.0241	98.0	61.3-136	1.60	20	WG774307
2-Butanone (MEK)	mg/kg	0.130	0.125	104.	53.7-153	4.13	21.2	WG774307
2-Chloroethyl vinyl ether	mg/kg	0.137	0.137	109.	37.7-157	0.550	20	WG774307
2-Chlorotoluene	mg/kg	0.0269	0.0271	108.	75.6-121	0.900	20	WG774307
4-Chlorotoluene	mg/kg	0.0264	0.0261	106.	77.3-120	1.33	20	WG774307
4-Methyl-2-pentanone (MIBK)	mg/kg	0.145	0.145	116.	70.4-137	0.0100	20	WG774307
Acetone	mg/kg	0.121	0.124	97.0	35.1-175	2.50	26.1	WG774307
Acrylonitrile	mg/kg	0.121	0.124	97.0	56.4-128	2.12	20	WG774307
Benzene	mg/kg	0.0229	0.0227	92.0	77.1-121	1.04	20	WG774307
Bromobenzene	mg/kg	0.0249	0.0270	100.	78.2-115	7.90	20	WG774307
Bromodichloromethane	mg/kg	0.0257	0.0237	103.	74.9-115	7.85	20	WG774307
Bromoform	mg/kg	0.0276	0.0265	110.	65.9-132	4.18	20	WG774307
Bromomethane	mg/kg	0.0293	0.0276	117.	48.7-165	6.01	20	WG774307
Carbon disulfide	mg/kg	0.0237	0.0232	95.0	66.9-145	2.36	20	WG774307
Carbon tetrachloride	mg/kg	0.0239	0.0229	96.0	70-124	4.43	20	WG774307
Chlorobenzene	mg/kg	0.0267	0.0259	107.	79.1-119	2.83	20	WG774307
Chlorodibromomethane	mg/kg	0.0260	0.0256	104.	73.5-121	1.44	20	WG774307
Chloroethane	mg/kg	0.0255	0.0246	102.	66.2-132	3.51	20	WG774307
Chloroform	mg/kg	0.0243	0.0239	97.0	76.7-122	1.63	20	WG774307
Chloromethane	mg/kg	0.0229	0.0234	92.0	63.4-131	2.17	20	WG774307
cis-1,2-Dichloroethene	mg/kg	0.0241	0.0234	96.0	78.2-119	3.06	20	WG774307
cis-1,3-Dichloropropene	mg/kg	0.0262	0.0264	105.	79.6-120	1.02	20	WG774307
Di-isopropyl ether	mg/kg	0.0242	0.0231	97.0	70.4-133	4.58	20	WG774307
Dibromomethane	mg/kg	0.0270	0.0264	108.	79.4-120	2.13	20	WG774307
Dichlorodifluoromethane	mg/kg	0.0221	0.0222	88.0	57.1-137	0.100	20	WG774307
Ethylbenzene	mg/kg	0.0253	0.0272	101.	79.7-122	7.38	20	WG774307
Hexachloro-1,3-butadiene	mg/kg	0.0230	0.0253	92.0	68.2-123	9.51	20	WG774307
Isopropylbenzene	mg/kg	0.0273	0.0250	109.	80-135	8.84	20	WG774307
Methyl tert-butyl ether	mg/kg	0.0245	0.0232	98.0	73-129	5.40	20	WG774307
Methylene Chloride	mg/kg	0.0240	0.0226	96.0	72.6-120	5.73	20	WG774307
n-Butylbenzene	mg/kg	0.0244	0.0283	98.0	77.5-126	14.6	20	WG774307
n-Propylbenzene	mg/kg	0.0252	0.0251	101.	77.9-123	0.210	20	WG774307
Naphthalene	mg/kg	0.0230	0.0263	92.0	69.8-128	13.5	20	WG774307
p-Isopropyltoluene	mg/kg	0.0262	0.0288	105.	75.8-129	9.68	20	WG774307
sec-Butylbenzene	mg/kg	0.0275	0.0265	110.	75.8-126	3.48	20	WG774307
Styrene	mg/kg	0.0259	0.0273	104.	82.4-126	5.23	20	WG774307
tert-Butylbenzene	mg/kg	0.0246	0.0276	98.0	76.4-126	11.6	20	WG774307
Tetrachloroethene	mg/kg	0.0271	0.0280	108.	73.9-125	2.94	20	WG774307
Toluene	mg/kg	0.0258	0.0252	103.	79.7-118	2.57	20	WG774307
trans-1,2-Dichloroethene	mg/kg	0.0244	0.0233	98.0	73.8-122	4.54	20	WG774307
trans-1,3-Dichloropropene	mg/kg	0.0267	0.0272	107.	75.9-124	1.67	20	WG774307
Trichloroethene	mg/kg	0.0263	0.0258	105.	77.9-118	1.99	20	WG774307
Trichlorofluoromethane	mg/kg	0.0243	0.0238	97.0	67.7-131	2.10	20	WG774307
Vinyl chloride	mg/kg	0.0249	0.0242	100.	66.7-130	2.93	20	WG774307
Xylenes, Total	mg/kg	0.0793	0.0805	106.	78.8-121	1.55	20	WG774307
4-Bromofluorobenzene				102.0	71-126			WG774307
Dibromofluoromethane				97.00	78.3-121			WG774307
Toluene-d8				108.0	88.5-111			WG774307
a,a,a-Trifluorotoluene				105.0	85-114			WG774307
1,1,1,2-Tetrachloroethane	mg/l	0.0259	0.0253	104.	74.2-124	2.51	20	WG774291
1,1,1-Trichloroethane	mg/l	0.0233	0.0227	93.0	73.2-123	2.96	20	WG774291
1,1,2,2-Tetrachloroethane	mg/l	0.0250	0.0242	100.	70.7-122	3.15	20	WG774291
1,1,2-Trichloroethane	mg/l	0.0248	0.0243	99.0	77.7-118	2.05	20	WG774291
1,1,2-Trichlorotrifluoroethane	mg/l	0.0233	0.0238	93.0	67.2-143	2.07	20	WG774291
1,1-Dichloroethane	mg/l	0.0228	0.0227	91.0	70.7-126	0.440	20	WG774291

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 Level II

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,1-Dichloroethene	mg/l	0.0227	0.0226	91.0	67.8-129	0.160	20	WG774291
1,1-Dichloropropene	mg/l	0.0233	0.0232	93.0	73.1-125	0.580	20	WG774291
1,2,3-Trichlorobenzene	mg/l	0.0236	0.0218	94.0	64.9-135	7.74	20	WG774291
1,2,3-Trichloropropene	mg/l	0.0238	0.0229	95.0	71.8-121	3.96	20	WG774291
1,2,3-Trimethylbenzene	mg/l	0.0251	0.0245	100.	72.3-116	2.32	20	WG774291
1,2,4-Trichlorobenzene	mg/l	0.0234	0.0220	94.0	69.7-136	6.49	20	WG774291
1,2,4-Trimethylbenzene	mg/l	0.0234	0.0228	93.0	75-123	2.64	20	WG774291
1,2-Dibromo-3-Chloropropene	mg/l	0.0242	0.0217	97.0	65.4-128	10.7	20	WG774291
1,2-Dibromoethane	mg/l	0.0246	0.0241	98.0	76.6-121	1.85	20	WG774291
1,2-Dichlorobenzene	mg/l	0.0249	0.0247	99.0	78.4-117	0.610	20	WG774291
1,2-Dichloroethane	mg/l	0.0240	0.0241	96.0	68.8-124	0.610	20	WG774291
1,2-Dichloropropene	mg/l	0.0248	0.0249	99.0	76.5-119	0.380	20	WG774291
1,3,5-Trimethylbenzene	mg/l	0.0243	0.0235	97.0	75.6-124	3.20	20	WG774291
1,3-Dichlorobenzene	mg/l	0.0239	0.0233	96.0	70.8-128	2.37	20	WG774291
1,3-Dichloropropene	mg/l	0.0235	0.0234	94.0	77.4-117	0.390	20	WG774291
1,4-Dichlorobenzene	mg/l	0.0254	0.0258	102.	78.8-115	1.51	20	WG774291
2,2-Dichloropropene	mg/l	0.0197	0.0190	79.0	62.4-133	3.48	20	WG774291
2-Butanone (MEK)	mg/l	0.123	0.118	98.0	55-149	4.29	20	WG774291
2-Chloroethyl vinyl ether	mg/l	0.120	0.121	96.0	43.8-150	0.660	20	WG774291
2-Chlorotoluene	mg/l	0.0247	0.0240	99.0	74.7-122	2.70	20	WG774291
4-Chlorotoluene	mg/l	0.0228	0.0225	91.0	77.5-120	1.09	20	WG774291
4-Methyl-2-pentanone (MIBK)	mg/l	0.128	0.122	102.	70.5-133	4.49	20	WG774291
Acetone	mg/l	0.116	0.111	93.0	35.6-163	4.95	23.9	WG774291
Acrolein	mg/l	0.0551	0.0555	44.0	10-190	0.610	28.1	WG774291
Acrylonitrile	mg/l	0.119	0.114	95.0	55.2-130	4.35	20	WG774291
Benzene	mg/l	0.0230	0.0229	92.0	74.8-121	0.280	20	WG774291
Bromobenzene	mg/l	0.0229	0.0228	92.0	77.5-116	0.730	20	WG774291
Bromodichloromethane	mg/l	0.0248	0.0249	99.0	75.1-116	0.480	20	WG774291
Bromoform	mg/l	0.0252	0.0249	101.	67.5-130	0.930	20	WG774291
Bromomethane	mg/l	0.0383	0.0381	153.	49.9-162	0.410	20	WG774291
Carbon disulfide	mg/l	0.0222	0.0219	89.0	64.6-140	1.42	20	WG774291
Carbon tetrachloride	mg/l	0.0237	0.0234	95.0	70.2-123	1.21	20	WG774291
Chlorobenzene	mg/l	0.0248	0.0248	99.0	78.1-119	0.220	20	WG774291
Chlorodibromomethane	mg/l	0.0252	0.0246	101.	74-121	2.69	20	WG774291
Chloroethane	mg/l	0.0329	0.0326	132.	61.7-135	0.880	20	WG774291
Chloroform	mg/l	0.0220	0.0221	88.0	76-121	0.600	20	WG774291
Chloromethane	mg/l	0.0229	0.0233	92.0	61.5-129	1.53	20	WG774291
cis-1,2-Dichloroethene	mg/l	0.0228	0.0227	91.0	76-119	0.410	20	WG774291
cis-1,3-Dichloropropene	mg/l	0.0238	0.0238	95.0	78.2-120	0.210	20	WG774291
Di-isopropyl ether	mg/l	0.0222	0.0223	89.0	65.6-132	0.660	20	WG774291
Dibromomethane	mg/l	0.0255	0.0251	102.	79.5-118	1.56	20	WG774291
Dichlorodifluoromethane	mg/l	0.0222	0.0239	89.0	54.8-135	7.51	20	WG774291
Ethylbenzene	mg/l	0.0248	0.0246	99.0	78.8-122	0.920	20	WG774291
Hexachloro-1,3-butadiene	mg/l	0.0234	0.0216	93.0	64.7-129	7.62	20	WG774291
Isopropylbenzene	mg/l	0.0246	0.0238	98.0	78.6-132	3.43	20	WG774291
Methyl tert-butyl ether	mg/l	0.0227	0.0223	91.0	71.2-126	1.57	20	WG774291
Methylene Chloride	mg/l	0.0226	0.0223	90.0	70.3-120	1.61	20	WG774291
n-Butylbenzene	mg/l	0.0247	0.0245	99.0	76.2-126	0.740	20	WG774291
n-Propylbenzene	mg/l	0.0240	0.0238	96.0	78.2-122	0.640	20	WG774291
Naphthalene	mg/l	0.0231	0.0207	92.0	68.4-128	11.2	20	WG774291
p-Isopropyltoluene	mg/l	0.0240	0.0229	96.0	74-131	5.05	20	WG774291
sec-Butylbenzene	mg/l	0.0243	0.0234	97.0	74.4-127	4.03	20	WG774291
Styrene	mg/l	0.0234	0.0233	94.0	80.4-126	0.360	20	WG774291
tert-Butylbenzene	mg/l	0.0239	0.0229	95.0	75.3-126	3.89	20	WG774291
Tetrachloroethene	mg/l	0.0259	0.0258	104.	72.6-126	0.460	20	WG774291
Toluene	mg/l	0.0236	0.0237	94.0	79.7-116	0.110	20	WG774291
trans-1,2-Dichloroethene	mg/l	0.0221	0.0220	88.0	72.6-121	0.270	20	WG774291
trans-1,3-Dichloropropene	mg/l	0.0253	0.0251	101.	74.3-123	0.710	20	WG774291
Trichloroethene	mg/l	0.0254	0.0251	101.	77.7-118	1.24	20	WG774291

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Trichlorofluoromethane	mg/l	0.0240	0.0238	96.0	63.5-135	0.670	20	WG774291
Vinyl chloride	mg/l	0.0276	0.0280	110.	65.9-128	1.50	20	WG774291
Xylenes, Total	mg/l	0.0739	0.0732	98.0	78.7-121	1.05	20	WG774291
4-Bromofluorobenzene				91.10	71-126			WG774291
Dibromofluoromethane				96.10	78.3-121			WG774291
Toluene-d8				101.0	88.5-111			WG774291
a,a,a-Trifluorotoluene				98.50	85-114			WG774291
1,2,3-Trimethylbenzene	mg/l	0.0275	0.0241	110.	72.3-116	13.3	20	WG775401
1,2,4-Trimethylbenzene	mg/l	0.0265	0.0263	106.	75-123	0.920	20	WG775401
Ethylbenzene	mg/l	0.0263	0.0243	105.	78.8-122	7.74	20	WG775401
Naphthalene	mg/l	0.0253	0.0237	101.	68.4-128	6.66	20	WG775401
Xylenes, Total	mg/l	0.0775	0.0787	103.	78.7-121	1.54	20	WG775401
4-Bromofluorobenzene				108.0	71-126			WG775401
Dibromofluoromethane				95.60	78.3-121			WG775401
Toluene-d8				103.0	88.5-111			WG775401
a,a,a-Trifluorotoluene				105.0	85-114			WG775401
TPHG C5 - C12	mg/kg	5.65	5.27	103.	60-130	6.95	20	WG774452
a,a,a-Trifluorotoluene(FID)				99.50	59-128			WG774452
1,1,1,2-Tetrachloroethane	mg/kg	0.0237	0.0267	95.0	72.9-124	12.0	20	WG775215
1,1,1-Trichloroethane	mg/kg	0.0203	0.0227	81.0	73.7-124	11.0	20	WG775215
1,1,2,2-Tetrachloroethane	mg/kg	0.0224	0.0262	90.0	69.4-122	15.5	20	WG775215
1,1,2-Trichloroethane	mg/kg	0.0226	0.0256	90.0	79.1-118	12.4	20	WG775215
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0217	0.0236	87.0	70-146	8.76	20	WG775215
1,1-Dichloroethane	mg/kg	0.0209	0.0235	83.0	75-124	12.1	20	WG775215
1,1-Dichloroethene	mg/kg	0.0209	0.0242	84.0	70.4-129	14.3	20	WG775215
1,1-Dichloropropene	mg/kg	0.0210	0.0244	84.0	74.9-124	15.2	20	WG775215
1,2,3-Trichlorobenzene	mg/kg	0.0226	0.0255	90.0	69.3-131	12.1	20	WG775215
1,2,3-Trichloropropane	mg/kg	0.0213	0.0258	85.0	71.4-123	19.0	20	WG775215
1,2,3-Trimethylbenzene	mg/kg	0.0213	0.0233	85.0	73.6-113	8.91	20	WG775215
1,2,4-Trichlorobenzene	mg/kg	0.0228	0.0255	91.0	71.9-137	11.1	20	WG775215
1,2,4-Trimethylbenzene	mg/kg	0.0222	0.0242	89.0	75.5-122	8.65	20	WG775215
1,2-Dibromo-3-Chloropropane	mg/kg	0.0235	0.0286	94.0	62.8-133	19.3	20	WG775215
1,2-Dibromoethane	mg/kg	0.0232	0.0267	93.0	78.6-120	14.2	20	WG775215
1,2-Dichlorobenzene	mg/kg	0.0217	0.0246	87.0	78.3-118	12.6	20	WG775215
1,2-Dichloroethane	mg/kg	0.0216	0.0253	86.0	70.1-124	15.9	20	WG775215
1,2-Dichloropropane	mg/kg	0.0209	0.0237	84.0	77.9-119	12.5	20	WG775215
1,3,5-Trimethylbenzene	mg/kg	0.0227	0.0247	91.0	75.9-124	8.75	20	WG775215
1,3-Dichlorobenzene	mg/kg	0.0229	0.0252	92.0	72-126	9.46	20	WG775215
1,3-Dichloropropane	mg/kg	0.0218	0.0253	87.0	79.1-117	14.9	20	WG775215
1,4-Dichlorobenzene	mg/kg	0.0215	0.0237	86.0	78.3-117	9.65	20	WG775215
2,2-Dichloropropane	mg/kg	0.0180	0.0202	72.0	61.3-136	11.2	20	WG775215
2-Butanone (MEK)	mg/kg	0.125	0.151	100.	53.7-153	18.3	21.2	WG775215
2-Chloroethyl vinyl ether	mg/kg	0.119	0.141	95.0	37.7-157	17.0	20	WG775215
2-Chlorotoluene	mg/kg	0.0216	0.0240	86.0	75.6-121	10.4	20	WG775215
4-Chlorotoluene	mg/kg	0.0216	0.0239	86.0	77.3-120	10.3	20	WG775215
4-Methyl-2-pentanone (MIBK)	mg/kg	0.131	0.155	104.	70.4-137	16.8	20	WG775215
Acetone	mg/kg	0.122	0.145	98.0	35.1-175	17.2	26.1	WG775215
Acrylonitrile	mg/kg	0.114	0.138	91.0	56.4-128	19.1	20	WG775215
Benzene	mg/kg	0.0213	0.0245	85.0	77.1-121	14.2	20	WG775215
Bromobenzene	mg/kg	0.0209	0.0234	84.0	78.2-115	11.2	20	WG775215
Bromodichloromethane	mg/kg	0.0212	0.0236	85.0	74.9-115	10.3	20	WG775215
Bromoform	mg/kg	0.0234	0.0265	93.0	65.9-132	12.7	20	WG775215
Bromomethane	mg/kg	0.0179	0.0199	71.0	48.7-165	10.8	20	WG775215

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
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Carbon disulfide	mg/kg	0.0192	0.0217	77.0	66.9-145	12.5	20	WG775215
Carbon tetrachloride	mg/kg	0.0228	0.0255	91.0	70-124	11.2	20	WG775215
Chlorobenzene	mg/kg	0.0225	0.0250	90.0	79.1-119	10.6	20	WG775215
Chlorodibromomethane	mg/kg	0.0230	0.0265	92.0	73.5-121	13.8	20	WG775215
Chloroethane	mg/kg	0.0183	0.0201	73.0	66.2-132	9.31	20	WG775215
Chloroform	mg/kg	0.0203	0.0236	81.0	76.7-122	15.5	20	WG775215
Chloromethane	mg/kg	0.0194	0.0222	78.0	63.4-131	13.3	20	WG775215
cis-1,2-Dichloroethene	mg/kg	0.0221	0.0245	88.0	78.2-119	10.3	20	WG775215
cis-1,3-Dichloropropene	mg/kg	0.0216	0.0248	86.0	79.6-120	13.9	20	WG775215
Di-isopropyl ether	mg/kg	0.0210	0.0240	84.0	70.4-133	13.0	20	WG775215
Dibromomethane	mg/kg	0.0214	0.0248	86.0	79.4-120	14.7	20	WG775215
Dichlorodifluoromethane	mg/kg	0.0205	0.0230	82.0	57.1-137	11.5	20	WG775215
Ethylbenzene	mg/kg	0.0214	0.0244	86.0	79.7-122	12.8	20	WG775215
Hexachloro-1,3-butadiene	mg/kg	0.0235	0.0250	94.0	68.2-123	6.23	20	WG775215
Isopropylbenzene	mg/kg	0.0223	0.0244	89.0	80-135	9.24	20	WG775215
Methyl tert-butyl ether	mg/kg	0.0216	0.0256	86.0	73-129	17.0	20	WG775215
Methylene Chloride	mg/kg	0.0210	0.0234	84.0	72.6-120	10.7	20	WG775215
n-Butylbenzene	mg/kg	0.0219	0.0235	87.0	77.5-126	7.33	20	WG775215
n-Propylbenzene	mg/kg	0.0218	0.0241	87.0	77.9-123	10.4	20	WG775215
Naphthalene	mg/kg	0.0226	0.0259	90.0	69.8-128	13.6	20	WG775215
p-Isopropyltoluene	mg/kg	0.0231	0.0252	92.0	75.8-129	8.75	20	WG775215
sec-Butylbenzene	mg/kg	0.0222	0.0244	89.0	75.8-126	9.77	20	WG775215
Styrene	mg/kg	0.0223	0.0253	89.0	82.4-126	12.4	20	WG775215
tert-Butylbenzene	mg/kg	0.0231	0.0254	92.0	76.4-126	9.34	20	WG775215
Tetrachloroethene	mg/kg	0.0231	0.0257	92.0	73.9-125	10.6	20	WG775215
Toluene	mg/kg	0.0220	0.0245	88.0	79.7-118	10.5	20	WG775215
trans-1,2-Dichloroethene	mg/kg	0.0218	0.0248	87.0	73.8-122	12.8	20	WG775215
trans-1,3-Dichloropropene	mg/kg	0.0224	0.0266	90.0	75.9-124	17.2	20	WG775215
Trichloroethene	mg/kg	0.0239	0.0265	96.0	77.9-118	10.1	20	WG775215
Trichlorofluoromethane	mg/kg	0.0180	0.0196	72.0	67.7-131	8.56	20	WG775215
Vinyl chloride	mg/kg	0.0218	0.0237	87.0	66.7-130	8.36	20	WG775215
Xylenes, Total	mg/kg	0.0656	0.0731	87.0	78.8-121	10.8	20	WG775215
4-Bromofluorobenzene				99.00	71-126			WG775215
Dibromofluoromethane				94.40	78.3-121			WG775215
Toluene-d8				101.0	88.5-111			WG775215
a,a,a-Trifluorotoluene				105.0	85-114			WG775215

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
TPHG C5 - C12	mg/l	5.00	0.0	5.5	91.0	45.1-139	L752068-14	WG774317
a,a,a-Trifluorotoluene(FID)					107.0	62-128		WG774317
1,1,1,2-Tetrachloroethane	mg/kg	0.131	0.0	.025	100.	64-128	L752135-24	WG774307
1,1,1-Trichloroethane	mg/kg	0.114	0.0	.025	91.0	58.7-134	L752135-24	WG774307
1,1,2,2-Tetrachloroethane	mg/kg	0.132	0.0	.025	110.	56-132	L752135-24	WG774307
1,1,2-Trichloroethane	mg/kg	0.118	0.0	.025	94.0	66.3-125	L752135-24	WG774307
1,1,2-Trichlorotrifluoroethane	mg/kg	0.115	0.0	.025	92.0	54.8-154	L752135-24	WG774307
1,1-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	58.5-132	L752135-24	WG774307
1,1-Dichloroethene	mg/kg	0.120	0.0	.025	96.0	51.1-140	L752135-24	WG774307
1,1-Dichloropropene	mg/kg	0.117	0.0	.025	93.0	57.3-136	L752135-24	WG774307
1,2,3-Trichlorobenzene	mg/kg	0.104	0.0	.025	84.0	59.1-138	L752135-24	WG774307
1,2,3-Trichloropropane	mg/kg	0.127	0.0	.025	100.	61.4-128	L752135-24	WG774307
1,2,3-Trimethylbenzene	mg/kg	0.107	0.0	.025	86.0	61.3-122	L752135-24	WG774307
1,2,4-Trichlorobenzene	mg/kg	0.102	0.0	.025	82.0	63.6-143	L752135-24	WG774307
1,2,4-Trimethylbenzene	mg/kg	0.111	0.0	.025	89.0	57.4-137	L752135-24	WG774307
1,2-Dibromo-3-Chloropropane	mg/kg	0.125	0.0	.025	100.	57.3-136	L752135-24	WG774307
1,2-Dibromoethane	mg/kg	0.125	0.0	.025	100.	67.1-125	L752135-24	WG774307

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 Level II

L752170

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
1,2-Dichlorobenzene	mg/kg	0.108	0.0	.025	86.0	68.2-123	L752135-24	WG774307	
1,2-Dichloroethane	mg/kg	0.116	0.0	.025	92.0	60-126	L752135-24	WG774307	
1,2-Dichloropropane	mg/kg	0.121	0.0	.025	96.0	64.2-123	L752135-24	WG774307	
1,3,5-Trimethylbenzene	mg/kg	0.116	0.0	.025	93.0	63.6-132	L752135-24	WG774307	
1,3-Dichlorobenzene	mg/kg	0.115	0.0	.025	92.0	63.1-131	L752135-24	WG774307	
1,3-Dichloropropane	mg/kg	0.114	0.0	.025	92.0	67.9-121	L752135-24	WG774307	
1,4-Dichlorobenzene	mg/kg	0.106	0.0	.025	85.0	68.6-123	L752135-24	WG774307	
2,2-Dichloropropane	mg/kg	0.116	0.0	.025	93.0	50.5-144	L752135-24	WG774307	
2-Butanone (MEK)	mg/kg	0.602	0.0	.125	96.0	22.4-138	L752135-24	WG774307	
2-Chloroethyl vinyl ether	mg/kg	0.640	0.0	.125	100.	10-155	L752135-24	WG774307	
2-Chlorotoluene	mg/kg	0.111	0.0	.025	89.0	63.6-128	L752135-24	WG774307	
4-Chlorotoluene	mg/kg	0.112	0.0	.025	89.0	65.7-127	L752135-24	WG774307	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.683	0.0	.125	110.	60.8-140	L752135-24	WG774307	
Acetone	mg/kg	0.546	0.0139	.125	85.0	10-130	L752135-24	WG774307	
Acrylonitrile	mg/kg	0.615	0.0	.125	98.0	49.4-133	L752135-24	WG774307	
Benzene	mg/kg	0.107	0.0	.025	86.0	54.3-133	L752135-24	WG774307	
Bromobenzene	mg/kg	0.116	0.0	.025	93.0	63.9-124	L752135-24	WG774307	
Bromodichloromethane	mg/kg	0.115	0.0	.025	92.0	63.9-121	L752135-24	WG774307	
Bromoform	mg/kg	0.123	0.0	.025	99.0	59.5-134	L752135-24	WG774307	
Bromomethane	mg/kg	0.163	0.0	.025	130.	41.7-155	L752135-24	WG774307	
Carbon disulfide	mg/kg	0.107	0.0	.025	86.0	43.3-149	L752135-24	WG774307	
Carbon tetrachloride	mg/kg	0.117	0.0	.025	93.0	55.7-134	L752135-24	WG774307	
Chlorobenzene	mg/kg	0.121	0.0	.025	96.0	67-125	L752135-24	WG774307	
Chlorodibromomethane	mg/kg	0.117	0.0	.025	94.0	64.3-125	L752135-24	WG774307	
Chloroethane	mg/kg	0.120	0.0	.025	96.0	51.5-136	L752135-24	WG774307	
Chloroform	mg/kg	0.113	0.0	.025	91.0	63-129	L752135-24	WG774307	
Chloromethane	mg/kg	0.112	0.0	.025	90.0	42.4-135	L752135-24	WG774307	
cis-1,2-Dichloroethene	mg/kg	0.115	0.0	.025	92.0	59.2-129	L752135-24	WG774307	
cis-1,3-Dichloropropene	mg/kg	0.126	0.0	.025	100.	66.4-125	L752135-24	WG774307	
Di-isopropyl ether	mg/kg	0.114	0.0	.025	91.0	56.9-136	L752135-24	WG774307	
Dibromomethane	mg/kg	0.124	0.0	.025	99.0	68.2-124	L752135-24	WG774307	
Dichlorodifluoromethane	mg/kg	0.106	0.0	.025	85.0	40.6-144	L752135-24	WG774307	
Ethylbenzene	mg/kg	0.115	0.0	.025	92.0	61.4-133	L752135-24	WG774307	
Hexachloro-1,3-butadiene	mg/kg	0.113	0.0	.025	90.0	55.1-136	L752135-24	WG774307	
Isopropylbenzene	mg/kg	0.118	0.0	.025	95.0	66.8-141	L752135-24	WG774307	
Methyl tert-butyl ether	mg/kg	0.113	0.0	.025	90.0	57.7-134	L752135-24	WG774307	
Methylene Chloride	mg/kg	0.113	0.00154	.025	89.0	58.1-122	L752135-24	WG774307	
n-Butylbenzene	mg/kg	0.103	0.0	.025	83.0	62.7-140	L752135-24	WG774307	
n-Propylbenzene	mg/kg	0.120	0.0	.025	96.0	10-176	L752135-24	WG774307	
Naphthalene	mg/kg	0.111	0.0	.025	89.0	58-135	L752135-24	WG774307	
p-Isopropyltoluene	mg/kg	0.117	0.0	.025	93.0	63.2-139	L752135-24	WG774307	
sec-Butylbenzene	mg/kg	0.122	0.0	.025	97.0	62.2-136	L752135-24	WG774307	
Styrene	mg/kg	0.118	0.0	.025	95.0	66.8-133	L752135-24	WG774307	
tert-Butylbenzene	mg/kg	0.120	0.0	.025	96.0	63.3-134	L752135-24	WG774307	
Tetrachloroethene	mg/kg	0.128	0.0	.025	100.	53-139	L752135-24	WG774307	
Toluene	mg/kg	0.117	0.000402	.025	93.0	61.4-130	L752135-24	WG774307	
trans-1,2-Dichloroethene	mg/kg	0.119	0.0	.025	95.0	56.5-129	L752135-24	WG774307	
trans-1,3-Dichloropropene	mg/kg	0.123	0.0	.025	98.0	64.1-128	L752135-24	WG774307	
Trichloroethene	mg/kg	0.122	0.0	.025	98.0	44.1-149	L752135-24	WG774307	
Trichlorofluoromethane	mg/kg	0.114	0.0	.025	92.0	49.6-145	L752135-24	WG774307	
Vinyl chloride	mg/kg	0.119	0.0	.025	95.0	47.8-137	L752135-24	WG774307	
Xylenes, Total	mg/kg	0.364	0.0	.075	97.0	63.3-131	L752135-24	WG774307	
4-Bromofluorobenzene					106.0	71-126		WG774307	
Dibromofluoromethane					99.00	78.3-121		WG774307	
Toluene-d8					110.0	88.5-111		WG774307	
a,a,a-Trifluorotoluene					106.0	85-114		WG774307	
1,1,1,2-Tetrachloroethane	mg/l	0.0255	0.0	.025	100.	64-128	L752164-01	WG774291	

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
1,1,1-Trichloroethane	mg/l	0.0228	0.0	.025	91.0	58.7-134	L752164-01	WG774291
1,1,2,2-Tetrachloroethane	mg/l	0.0272	0.0	.025	110.	56-132	L752164-01	WG774291
1,1,2-Trichloroethane	mg/l	0.0241	0.0	.025	97.0	66.3-125	L752164-01	WG774291
1,1,2-Trichlorotrifluoroethane	mg/l	0.0221	0.0	.025	88.0	54.8-154	L752164-01	WG774291
1,1-Dichloroethane	mg/l	0.0223	0.0	.025	89.0	58.5-132	L752164-01	WG774291
1,1-Dichloroethene	mg/l	0.0213	0.0	.025	85.0	51.1-140	L752164-01	WG774291
1,1-Dichloropropene	mg/l	0.0226	0.0	.025	90.0	57.3-136	L752164-01	WG774291
1,2,3-Trichlorobenzene	mg/l	0.0230	0.0	.025	92.0	59.1-138	L752164-01	WG774291
1,2,3-Trichloropropane	mg/l	0.0244	0.0	.025	97.0	61.4-128	L752164-01	WG774291
1,2,3-Trimethylbenzene	mg/l	0.0254	0.0	.025	100.	61.3-122	L752164-01	WG774291
1,2,4-Trichlorobenzene	mg/l	0.0253	0.0	.025	100.	63.6-143	L752164-01	WG774291
1,2,4-Trimethylbenzene	mg/l	0.0249	0.0	.025	100.	57.4-137	L752164-01	WG774291
1,2-Dibromo-3-Chloropropane	mg/l	0.0242	0.0	.025	97.0	57.3-136	L752164-01	WG774291
1,2-Dibromoethane	mg/l	0.0239	0.0	.025	96.0	67.1-125	L752164-01	WG774291
1,2-Dichlorobenzene	mg/l	0.0251	0.0	.025	100.	68.2-123	L752164-01	WG774291
1,2-Dichloroethane	mg/l	0.0237	0.0	.025	95.0	60-126	L752164-01	WG774291
1,2-Dichloropropane	mg/l	0.0244	0.0	.025	98.0	64.2-123	L752164-01	WG774291
1,3,5-Trimethylbenzene	mg/l	0.0254	0.0	.025	100.	63.6-132	L752164-01	WG774291
1,3-Dichlorobenzene	mg/l	0.0249	0.0	.025	100.	63.1-131	L752164-01	WG774291
1,3-Dichloropropane	mg/l	0.0231	0.0	.025	92.0	67.9-121	L752164-01	WG774291
1,4-Dichlorobenzene	mg/l	0.0255	0.0	.025	100.	68.6-123	L752164-01	WG774291
2,2-Dichloropropane	mg/l	0.0199	0.0	.025	80.0	50.5-144	L752164-01	WG774291
2-Butanone (MEK)	mg/l	0.128	0.0	.125	100.	22.4-138	L752164-01	WG774291
2-Chloroethyl vinyl ether	mg/l	0.0279	0.0	.125	22.0	10-155	L752164-01	WG774291
2-Chlorotoluene	mg/l	0.0250	0.0	.025	100.	63.6-128	L752164-01	WG774291
4-Chlorotoluene	mg/l	0.0232	0.0	.025	93.0	65.7-127	L752164-01	WG774291
4-Methyl-2-pentanone (MIBK)	mg/l	0.125	0.0	.125	100.	60.8-140	L752164-01	WG774291
Acetone	mg/l	0.129	0.00299	.125	100.	10-130	L752164-01	WG774291
Acrolein	mg/l	0.0738	0.0	.125	59.0	10-200	L752164-01	WG774291
Acrylonitrile	mg/l	0.121	0.0	.125	96.0	49.4-133	L752164-01	WG774291
Benzene	mg/l	0.0225	0.0	.025	90.0	54.3-133	L752164-01	WG774291
Bromobenzene	mg/l	0.0236	0.0	.025	94.0	63.9-124	L752164-01	WG774291
Bromodichloromethane	mg/l	0.0241	0.0	.025	96.0	63.9-121	L752164-01	WG774291
Bromoform	mg/l	0.0252	0.0	.025	100.	59.5-134	L752164-01	WG774291
Bromomethane	mg/l	0.0361	0.0	.025	140.	41.7-155	L752164-01	WG774291
Carbon disulfide	mg/l	0.0208	0.0	.025	83.0	43.3-149	L752164-01	WG774291
Carbon tetrachloride	mg/l	0.0229	0.0	.025	92.0	55.7-134	L752164-01	WG774291
Chlorobenzene	mg/l	0.0245	0.0	.025	98.0	67-125	L752164-01	WG774291
Chlorodibromomethane	mg/l	0.0244	0.0	.025	98.0	64.3-125	L752164-01	WG774291
Chloroethane	mg/l	0.0322	0.0	.025	130.	51.5-136	L752164-01	WG774291
Chloroform	mg/l	0.0216	0.0	.025	86.0	63-129	L752164-01	WG774291
Chloromethane	mg/l	0.0218	0.0	.025	87.0	42.4-135	L752164-01	WG774291
cis-1,2-Dichloroethene	mg/l	0.0222	0.0	.025	89.0	59.2-129	L752164-01	WG774291
cis-1,3-Dichloropropane	mg/l	0.0234	0.0	.025	94.0	66.4-125	L752164-01	WG774291
Di-isopropyl ether	mg/l	0.0216	0.0	.025	87.0	56.9-136	L752164-01	WG774291
Dibromomethane	mg/l	0.0250	0.0	.025	100.	68.2-124	L752164-01	WG774291
Dichlorodifluoromethane	mg/l	0.0210	0.0	.025	84.0	40.6-144	L752164-01	WG774291
Ethylbenzene	mg/l	0.0243	0.0	.025	97.0	61.4-133	L752164-01	WG774291
Hexachloro-1,3-butadiene	mg/l	0.0248	0.0	.025	99.0	55.1-136	L752164-01	WG774291
Isopropylbenzene	mg/l	0.0253	0.000788	.025	98.0	66.8-141	L752164-01	WG774291
Methyl tert-butyl ether	mg/l	0.0226	0.0	.025	90.0	57.7-134	L752164-01	WG774291
Methylene Chloride	mg/l	0.0212	0.0	.025	85.0	58.1-122	L752164-01	WG774291
n-Butylbenzene	mg/l	0.0267	0.000397	.025	100.	62.7-140	L752164-01	WG774291
n-Propylbenzene	mg/l	0.0281	0.00348	.025	98.0	65.9-131	L752164-01	WG774291
Naphthalene	mg/l	0.0230	0.000557	.025	90.0	58-135	L752164-01	WG774291
p-Isopropyltoluene	mg/l	0.0258	0.0	.025	100.	63.2-139	L752164-01	WG774291
sec-Butylbenzene	mg/l	0.0260	0.000451	.025	100.	62.2-136	L752164-01	WG774291
Styrene	mg/l	0.0230	0.0	.025	92.0	66.8-133	L752164-01	WG774291
tert-Butylbenzene	mg/l	0.0247	0.0	.025	99.0	63.3-134	L752164-01	WG774291

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Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Tetrachloroethene	mg/l	0.0254	0.0	.025	100.	53-139	L752164-01	WG774291	
Toluene	mg/l	0.0232	0.0	.025	93.0	61.4-130	L752164-01	WG774291	
trans-1,2-Dichloroethene	mg/l	0.0214	0.0	.025	86.0	56.5-129	L752164-01	WG774291	
trans-1,3-Dichloropropene	mg/l	0.0253	0.0	.025	100.	64.1-128	L752164-01	WG774291	
Trichloroethene	mg/l	0.0236	0.0	.025	94.0	44.1-149	L752164-01	WG774291	
Trichlorofluoromethane	mg/l	0.0242	0.0	.025	97.0	49.6-145	L752164-01	WG774291	
Vinyl chloride	mg/l	0.0272	0.0	.025	110.	47.8-137	L752164-01	WG774291	
Xylenes, Total	mg/l	0.0739	0.0	.075	98.0	63.3-131	L752164-01	WG774291	
4-Bromofluorobenzene					92.10	71-126		WG774291	
Dibromofluoromethane					98.30	78.3-121		WG774291	
Toluene-d8					101.0	88.5-111		WG774291	
a,a,a-Trifluorotoluene					98.30	85-114		WG774291	
TPHG C5 - C12	mg/kg	27.2	0.0	5.5	99.0	21.6-134	L752170-01	WG774452	
a,a,a-Trifluorotoluene(FID)					99.10	59-128		WG774452	
1,1,1,2-Tetrachloroethane	mg/kg	0.139	0.0	.025	110.	64-128	L752621-05	WG775215	
1,1,1-Trichloroethane	mg/kg	0.126	0.0	.025	100.	58.7-134	L752621-05	WG775215	
1,1,2,2-Tetrachloroethane	mg/kg	0.141	0.0	.025	110.	56-132	L752621-05	WG775215	
1,1,2-Trichloroethane	mg/kg	0.127	0.0	.025	100.	66.3-125	L752621-05	WG775215	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.121	0.0	.025	96.0	54.8-154	L752621-05	WG775215	
1,1-Dichloroethane	mg/kg	0.122	0.0	.025	97.0	58.5-132	L752621-05	WG775215	
1,1-Dichloroethene	mg/kg	0.131	0.0	.025	100.	51.1-140	L752621-05	WG775215	
1,1-Dichloropropene	mg/kg	0.126	0.0	.025	100.	57.3-136	L752621-05	WG775215	
1,2,3-Trichlorobenzene	mg/kg	0.119	0.0	.025	95.0	59.1-138	L752621-05	WG775215	
1,2,3-Trichloropropane	mg/kg	0.126	0.0	.025	100.	61.4-128	L752621-05	WG775215	
1,2,3-Trimethylbenzene	mg/kg	0.120	0.0	.025	96.0	61.3-122	L752621-05	WG775215	
1,2,4-Trichlorobenzene	mg/kg	0.119	0.0	.025	95.0	63.6-143	L752621-05	WG775215	
1,2,4-Trimethylbenzene	mg/kg	0.123	0.000476	.025	98.0	57.4-137	L752621-05	WG775215	
1,2-Dibromo-3-Chloropropane	mg/kg	0.145	0.0	.025	120.	57.3-136	L752621-05	WG775215	
1,2-Dibromoethane	mg/kg	0.135	0.0	.025	110.	67.1-125	L752621-05	WG775215	
1,2-Dichlorobenzene	mg/kg	0.121	0.0	.025	97.0	68.2-123	L752621-05	WG775215	
1,2-Dichloroethane	mg/kg	0.125	0.0	.025	100.	60-126	L752621-05	WG775215	
1,2-Dichloropropane	mg/kg	0.118	0.0	.025	95.0	64.2-123	L752621-05	WG775215	
1,3,5-Trimethylbenzene	mg/kg	0.128	0.000337	.025	100.	63.6-132	L752621-05	WG775215	
1,3-Dichlorobenzene	mg/kg	0.127	0.0	.025	100.	61.3-131	L752621-05	WG775215	
1,3-Dichloropropane	mg/kg	0.127	0.0	.025	100.	67.9-121	L752621-05	WG775215	
1,4-Dichlorobenzene	mg/kg	0.115	0.0	.025	92.0	68.6-123	L752621-05	WG775215	
2,2-Dichloropropane	mg/kg	0.114	0.0	.025	91.0	50.5-144	L752621-05	WG775215	
2-Butanone (MEK)	mg/kg	0.707	0.0	.125	110.	22.4-138	L752621-05	WG775215	
2-Chloroethyl vinyl ether	mg/kg	0.682	0.0	.125	110.	10-155	L752621-05	WG775215	
2-Chlorotoluene	mg/kg	0.123	0.0	.025	99.0	63.6-128	L752621-05	WG775215	
4-Chlorotoluene	mg/kg	0.122	0.0	.025	98.0	65.7-127	L752621-05	WG775215	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.756	0.0	.125	120.	60.8-140	L752621-05	WG775215	
Acetone	mg/kg	0.606	0.0248	.125	93.0	10-130	L752621-05	WG775215	
Acrylonitrile	mg/kg	0.662	0.0	.125	110.	49.4-133	L752621-05	WG775215	
Benzene	mg/kg	0.125	0.000351	.025	100.	54.3-133	L752621-05	WG775215	
Bromobenzene	mg/kg	0.120	0.0	.025	96.0	63.9-124	L752621-05	WG775215	
Bromodichloromethane	mg/kg	0.122	0.0	.025	98.0	63.9-121	L752621-05	WG775215	
Bromoform	mg/kg	0.139	0.0	.025	110.	59.5-134	L752621-05	WG775215	
Bromomethane	mg/kg	0.107	0.0	.025	86.0	41.7-155	L752621-05	WG775215	
Carbon disulfide	mg/kg	0.114	0.0	.025	91.0	43.3-149	L752621-05	WG775215	
Carbon tetrachloride	mg/kg	0.138	0.0	.025	110.	55.7-134	L752621-05	WG775215	
Chlorobenzene	mg/kg	0.129	0.0	.025	100.	67-125	L752621-05	WG775215	
Chlorodibromomethane	mg/kg	0.133	0.0	.025	110.	64.3-125	L752621-05	WG775215	
Chloroethane	mg/kg	0.109	0.0	.025	87.0	51.5-136	L752621-05	WG775215	
Chloroform	mg/kg	0.119	0.0	.025	95.0	63-129	L752621-05	WG775215	

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Chloromethane	mg/kg	0.118	0.0	.025	94.0	42.4-135	L752621-05	WG775215	
cis-1,2-Dichloroethene	mg/kg	0.128	0.0	.025	100.	59.2-129	L752621-05	WG775215	
cis-1,3-Dichloropropene	mg/kg	0.124	0.0	.025	99.0	66.4-125	L752621-05	WG775215	
Di-isopropyl ether	mg/kg	0.121	0.0	.025	96.0	56.9-136	L752621-05	WG775215	
Dibromomethane	mg/kg	0.122	0.0	.025	97.0	68.2-124	L752621-05	WG775215	
Dichlorodifluoromethane	mg/kg	0.124	0.0	.025	100.	40.6-144	L752621-05	WG775215	
Ethylbenzene	mg/kg	0.125	0.0	.025	100.	61.4-133	L752621-05	WG775215	
Hexachloro-1,3-butadiene	mg/kg	0.114	0.0	.025	91.0	55.1-136	L752621-05	WG775215	
Isopropylbenzene	mg/kg	0.132	0.0	.025	110.	66.8-141	L752621-05	WG775215	
Methyl tert-butyl ether	mg/kg	0.125	0.0	.025	100.	57.7-134	L752621-05	WG775215	
Methylene Chloride	mg/kg	0.120	0.00114	.025	95.0	58.1-122	L752621-05	WG775215	
n-Butylbenzene	mg/kg	0.115	0.0	.025	92.0	62.7-140	L752621-05	WG775215	
n-Propylbenzene	mg/kg	0.124	0.0	.025	99.0	10-176	L752621-05	WG775215	
Naphthalene	mg/kg	0.121	0.000474	.025	97.0	58-135	L752621-05	WG775215	
p-Isopropyltoluene	mg/kg	0.128	0.0	.025	100.	63.2-139	L752621-05	WG775215	
sec-Butylbenzene	mg/kg	0.128	0.0	.025	100.	62.2-136	L752621-05	WG775215	
Styrene	mg/kg	0.129	0.0	.025	100.	66.8-133	L752621-05	WG775215	
tert-Butylbenzene	mg/kg	0.136	0.0	.025	110.	63.3-134	L752621-05	WG775215	
Tetrachloroethene	mg/kg	0.133	0.0	.025	110.	53-139	L752621-05	WG775215	
Toluene	mg/kg	0.127	0.00116	.025	100.	61.4-130	L752621-05	WG775215	
trans-1,2-Dichloroethene	mg/kg	0.128	0.0	.025	100.	56.5-129	L752621-05	WG775215	
trans-1,3-Dichloropropene	mg/kg	0.128	0.0	.025	100.	64.1-128	L752621-05	WG775215	
Trichloroethene	mg/kg	0.132	0.0	.025	100.	44.1-149	L752621-05	WG775215	
Trichlorofluoromethane	mg/kg	0.114	0.0	.025	91.0	49.6-145	L752621-05	WG775215	
Vinyl chloride	mg/kg	0.135	0.0	.025	110.	47.8-137	L752621-05	WG775215	
Xylenes, Total	mg/kg	0.380	0.00131	.075	100.	63.3-131	L752621-05	WG775215	
4-Bromofluorobenzene					103.0	71-126		WG775215	
Dibromofluoromethane					94.60	78.3-121		WG775215	
Toluene-d8					101.0	88.5-111		WG775215	
a,a,a-Trifluorotoluene					104.0	85-114		WG775215	

Analyte	Units	MSD	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec						
TPHG C5 - C12	mg/l	5.35	5.00	97.3	45.1-139	6.93	20	L752068-14	WG774317	
a,a,a-Trifluorotoluene(FID)				106.0	62-128				WG774317	
1,1,1,2-Tetrachloroethane	mg/kg	0.134	0.131	107.	64-128	2.36	20	L752135-24	WG774307	
1,1,1-Trichloroethane	mg/kg	0.121	0.114	96.7	58.7-134	5.61	20	L752135-24	WG774307	
1,1,2,2-Tetrachloroethane	mg/kg	0.133	0.132	106.	56-132	0.390	22.2	L752135-24	WG774307	
1,1,2-Trichloroethane	mg/kg	0.127	0.118	101.	66.3-125	7.06	20	L752135-24	WG774307	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.115	0.115	92.1	54.8-154	0.210	22.5	L752135-24	WG774307	
1,1-Dichloroethane	mg/kg	0.121	0.115	96.7	58.5-132	5.00	20	L752135-24	WG774307	
1,1-Dichloroethene	mg/kg	0.119	0.120	94.9	51.1-140	1.24	20.2	L752135-24	WG774307	
1,1-Dichloropropene	mg/kg	0.116	0.117	92.7	57.3-136	0.760	20	L752135-24	WG774307	
1,2,3-Trichlorobenzene	mg/kg	0.110	0.104	88.3	59.1-138	5.59	23.7	L752135-24	WG774307	
1,2,3-Trichloropropane	mg/kg	0.127	0.127	102.	61.4-128	0.530	22.4	L752135-24	WG774307	
1,2,3-Trimethylbenzene	mg/kg	0.115	0.107	92.0	61.3-122	6.79	20	L752135-24	WG774307	
1,2,4-Trichlorobenzene	mg/kg	0.105	0.102	83.8	63.6-143	2.68	21.9	L752135-24	WG774307	
1,2,4-Trimethylbenzene	mg/kg	0.119	0.111	94.9	57.4-137	6.37	20	L752135-24	WG774307	
1,2-Dibromo-3-Chloropropane	mg/kg	0.124	0.125	98.9	57.3-136	0.800	27	L752135-24	WG774307	
1,2-Dibromoethane	mg/kg	0.129	0.125	103.	67.1-125	3.55	20	L752135-24	WG774307	
1,2-Dichlorobenzene	mg/kg	0.117	0.108	93.8	68.2-123	8.23	20	L752135-24	WG774307	
1,2-Dichloroethane	mg/kg	0.114	0.116	91.5	60-126	1.13	20	L752135-24	WG774307	
1,2-Dichloropropane	mg/kg	0.119	0.121	95.5	64.2-123	0.960	20	L752135-24	WG774307	
1,3,5-Trimethylbenzene	mg/kg	0.117	0.116	93.9	63.6-132	1.38	20.5	L752135-24	WG774307	
1,3-Dichlorobenzene	mg/kg	0.115	0.115	92.2	63.1-131	0.0700	20	L752135-24	WG774307	
1,3-Dichloropropane	mg/kg	0.119	0.114	95.0	67.9-121	3.71	20	L752135-24	WG774307	

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Quality Assurance Report  
 Level II

L752170

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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,4-Dichlorobenzene	mg/kg	0.103	0.106	82.1	68.6-123	3.69	20	L752135-24	WG774307
2,2-Dichloropropane	mg/kg	0.118	0.116	94.6	50.5-144	1.88	21.9	L752135-24	WG774307
2-Butanone (MEK)	mg/kg	0.604	0.602	96.7	22.4-138	0.440	27	L752135-24	WG774307
2-Chloroethyl vinyl ether	mg/kg	0.600	0.640	95.9	10-155	6.47	40	L752135-24	WG774307
2-Chlorotoluene	mg/kg	0.119	0.111	94.8	63.6-128	6.48	20	L752135-24	WG774307
4-Chlorotoluene	mg/kg	0.122	0.112	97.8	65.7-127	9.10	20	L752135-24	WG774307
4-Methyl-2-pentanone (MIBK)	mg/kg	0.627	0.683	100.	60.8-140	8.55	25.1	L752135-24	WG774307
Acetone	mg/kg	0.577	0.546	90.1	10-130	5.57	27.9	L752135-24	WG774307
Acrylonitrile	mg/kg	0.556	0.615	89.0	49.4-133	10.2	25.3	L752135-24	WG774307
Benzene	mg/kg	0.113	0.107	90.2	54.3-133	5.26	20	L752135-24	WG774307
Bromobenzene	mg/kg	0.114	0.116	91.3	63.9-124	1.50	20	L752135-24	WG774307
Bromodichloromethane	mg/kg	0.117	0.115	93.3	63.9-121	1.20	20	L752135-24	WG774307
Bromoform	mg/kg	0.132	0.123	105.	59.5-134	6.53	20.8	L752135-24	WG774307
Bromomethane	mg/kg	0.174	0.163	139.	41.7-155	6.95	20.5	L752135-24	WG774307
Carbon disulfide	mg/kg	0.112	0.107	89.6	43.3-149	4.46	21	L752135-24	WG774307
Carbon tetrachloride	mg/kg	0.114	0.117	90.8	55.7-134	2.65	20.3	L752135-24	WG774307
Chlorobenzene	mg/kg	0.126	0.121	101.	67-125	4.24	20	L752135-24	WG774307
Chlorodibromomethane	mg/kg	0.124	0.117	99.0	64.3-125	5.58	20	L752135-24	WG774307
Chloroethane	mg/kg	0.123	0.120	98.7	51.5-136	2.85	20.8	L752135-24	WG774307
Chloroform	mg/kg	0.113	0.113	90.6	63-129	0.0500	20	L752135-24	WG774307
Chloromethane	mg/kg	0.113	0.112	90.2	42.4-135	0.360	20	L752135-24	WG774307
cis-1,2-Dichloroethene	mg/kg	0.118	0.115	94.6	59.2-129	2.41	20	L752135-24	WG774307
cis-1,3-Dichloropropene	mg/kg	0.116	0.126	92.4	66.4-125	8.82	20	L752135-24	WG774307
Di-isopropyl ether	mg/kg	0.111	0.114	89.2	56.9-136	1.93	20	L752135-24	WG774307
Dibromomethane	mg/kg	0.118	0.124	94.1	68.2-124	5.03	20	L752135-24	WG774307
Dichlorodifluoromethane	mg/kg	0.102	0.106	81.8	40.6-144	3.42	20.2	L752135-24	WG774307
Ethylbenzene	mg/kg	0.119	0.115	95.2	61.4-133	3.06	20	L752135-24	WG774307
Hexachloro-1,3-butadiene	mg/kg	0.113	0.113	90.4	55.1-136	0.150	23.6	L752135-24	WG774307
Isopropylbenzene	mg/kg	0.129	0.118	103.	66.8-141	8.17	20	L752135-24	WG774307
Methyl tert-butyl ether	mg/kg	0.116	0.113	92.7	57.7-134	3.00	20	L752135-24	WG774307
Methylene Chloride	mg/kg	0.115	0.113	90.9	58.1-122	2.30	20	L752135-24	WG774307
n-Butylbenzene	mg/kg	0.103	0.103	82.5	62.7-140	0.230	20	L752135-24	WG774307
n-Propylbenzene	mg/kg	0.120	0.120	96.0	10-176	0.120	26.6	L752135-24	WG774307
Naphthalene	mg/kg	0.115	0.111	92.2	58-135	3.53	25.5	L752135-24	WG774307
p-Isopropyltoluene	mg/kg	0.113	0.117	90.5	63.2-139	2.95	20.4	L752135-24	WG774307
sec-Butylbenzene	mg/kg	0.116	0.122	92.9	62.2-136	4.66	20.3	L752135-24	WG774307
Styrene	mg/kg	0.126	0.118	101.	66.8-133	6.61	20	L752135-24	WG774307
tert-Butylbenzene	mg/kg	0.127	0.120	102.	63.3-134	5.56	20.3	L752135-24	WG774307
Tetrachloroethene	mg/kg	0.128	0.128	103.	53-139	0.0500	20	L752135-24	WG774307
Toluene	mg/kg	0.104	0.117	83.1	61.4-130	11.5	20	L752135-24	WG774307
trans-1,2-Dichloroethene	mg/kg	0.118	0.119	94.1	56.5-129	1.23	20	L752135-24	WG774307
trans-1,3-Dichloropropene	mg/kg	0.115	0.123	92.2	64.1-128	6.54	20	L752135-24	WG774307
Trichloroethene	mg/kg	0.120	0.122	96.0	44.1-149	1.67	20	L752135-24	WG774307
Trichlorofluoromethane	mg/kg	0.121	0.114	97.0	49.6-145	5.92	21.2	L752135-24	WG774307
Vinyl chloride	mg/kg	0.119	0.119	95.1	47.8-137	0.0400	20	L752135-24	WG774307
Xylenes, Total	mg/kg	0.385	0.364	102.	63.3-131	5.50	20	L752135-24	WG774307
4-Bromofluorobenzene				108.0	71-126				WG774307
Dibromofluoromethane				99.80	78.3-121				WG774307
Toluene-d8				99.50	88.5-111				WG774307
a,a,a-Trifluorotoluene				101.0	85-114				WG774307
1,1,1,2-Tetrachloroethane	mg/l	0.0245	0.0255	98.1	64-128	3.99	20	L752164-01	WG774291
1,1,1-Trichloroethane	mg/l	0.0220	0.0228	88.0	58.7-134	3.56	20	L752164-01	WG774291
1,1,2,2-Tetrachloroethane	mg/l	0.0258	0.0272	103.	56-132	5.32	22.2	L752164-01	WG774291
1,1,2-Trichloroethane	mg/l	0.0237	0.0241	95.0	66.3-125	1.66	20	L752164-01	WG774291
1,1,2-Trichlorotrifluoroethane	mg/l	0.0211	0.0221	84.2	54.8-154	4.97	22.5	L752164-01	WG774291
1,1-Dichloroethane	mg/l	0.0215	0.0223	86.0	58.5-132	3.55	20	L752164-01	WG774291
1,1-Dichloroethene	mg/l	0.0206	0.0213	82.5	51.1-140	3.35	20.2	L752164-01	WG774291

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
1,1-Dichloropropene	mg/l	0.0214	0.0226	85.7	57.3-136	5.41	20	L752164-01	WG774291
1,2,3-Trichlorobenzene	mg/l	0.0232	0.0230	92.8	59.1-138	1.06	23.7	L752164-01	WG774291
1,2,3-Trichloropropane	mg/l	0.0235	0.0244	93.8	61.4-128	3.76	22.4	L752164-01	WG774291
1,2,3-Trimethylbenzene	mg/l	0.0241	0.0254	96.5	61.3-122	5.10	20	L752164-01	WG774291
1,2,4-Trichlorobenzene	mg/l	0.0231	0.0253	92.5	63.6-143	8.90	21.9	L752164-01	WG774291
1,2,4-Trimethylbenzene	mg/l	0.0225	0.0249	89.8	57.4-137	10.3	20	L752164-01	WG774291
1,2-Dibromo-3-Chloropropane	mg/l	0.0231	0.0242	92.3	57.3-136	4.84	27	L752164-01	WG774291
1,2-Dibromoethane	mg/l	0.0236	0.0239	94.5	67.1-125	1.27	20	L752164-01	WG774291
1,2-Dichlorobenzene	mg/l	0.0239	0.0251	95.4	68.2-123	5.11	20	L752164-01	WG774291
1,2-Dichloroethane	mg/l	0.0227	0.0237	91.0	60-126	3.94	20	L752164-01	WG774291
1,2-Dichloropropane	mg/l	0.0232	0.0244	92.8	64.2-123	4.95	20	L752164-01	WG774291
1,3,5-Trimethylbenzene	mg/l	0.0230	0.0254	91.9	63.6-132	10.1	20.5	L752164-01	WG774291
1,3-Dichlorobenzene	mg/l	0.0227	0.0249	90.9	63.1-131	9.24	20	L752164-01	WG774291
1,3-Dichloropropane	mg/l	0.0227	0.0231	90.8	67.9-121	1.58	20	L752164-01	WG774291
1,4-Dichlorobenzene	mg/l	0.0246	0.0255	98.4	68.6-123	3.37	20	L752164-01	WG774291
2,2-Dichloropropane	mg/l	0.0191	0.0199	76.4	50.5-144	4.25	21.9	L752164-01	WG774291
2-Butanone (MEK)	mg/l	0.116	0.128	92.5	22.4-138	9.87	27	L752164-01	WG774291
2-Chloroethyl vinyl ether	mg/l	0.00300	0.0279	2.40*	10-155	161.*	20	L752164-01	WG774291
2-Chlorotoluene	mg/l	0.0234	0.0250	93.5	63.6-128	6.82	20	L752164-01	WG774291
4-Chlorotoluene	mg/l	0.0216	0.0232	86.5	65.7-127	7.00	20	L752164-01	WG774291
4-Methyl-2-pentanone (MIBK)	mg/l	0.122	0.125	97.9	60.8-140	2.45	25.1	L752164-01	WG774291
Acetone	mg/l	0.115	0.129	89.2	10-130	11.8	27.9	L752164-01	WG774291
Acrolein	mg/l	0.0653	0.0738	52.2	10-200	12.2	27.7	L752164-01	WG774291
Acrylonitrile	mg/l	0.118	0.121	94.0	49.4-133	2.61	25.3	L752164-01	WG774291
Benzene	mg/l	0.0219	0.0225	87.4	54.3-133	2.75	20	L752164-01	WG774291
Bromobenzene	mg/l	0.0222	0.0236	88.9	63.9-124	5.77	20	L752164-01	WG774291
Bromodichloromethane	mg/l	0.0235	0.0241	94.1	63.9-121	2.43	20	L752164-01	WG774291
Bromoform	mg/l	0.0246	0.0252	98.4	59.5-134	2.60	20.5	L752164-01	WG774291
Bromomethane	mg/l	0.0366	0.0361	146.	41.7-155	1.16	21.9	L752164-01	WG774291
Carbon disulfide	mg/l	0.0201	0.0208	80.5	43.3-149	3.26	20.3	L752164-01	WG774291
Carbon tetrachloride	mg/l	0.0221	0.0229	88.3	55.7-134	3.65	20	L752164-01	WG774291
Chlorobenzene	mg/l	0.0236	0.0245	94.3	67-125	3.88	20	L752164-01	WG774291
Chlorodibromomethane	mg/l	0.0242	0.0244	96.8	64.3-125	0.940	20.8	L752164-01	WG774291
Chloroethane	mg/l	0.0313	0.0322	125.	51.5-136	2.80	40	L752164-01	WG774291
Chloroform	mg/l	0.0208	0.0216	83.2	63-129	3.64	20	L752164-01	WG774291
Chloromethane	mg/l	0.0214	0.0218	85.6	42.4-135	1.74	20	L752164-01	WG774291
cis-1,2-Dichloroethene	mg/l	0.0216	0.0222	86.4	59.2-129	2.77	20	L752164-01	WG774291
cis-1,3-Dichloropropene	mg/l	0.0224	0.0234	89.4	66.4-125	4.64	20	L752164-01	WG774291
Di-isopropyl ether	mg/l	0.0208	0.0216	83.1	56.9-136	4.08	20	L752164-01	WG774291
Dibromomethane	mg/l	0.0241	0.0250	96.4	68.2-124	3.57	20	L752164-01	WG774291
Dichlorodifluoromethane	mg/l	0.0201	0.0210	80.6	40.6-144	4.34	20.2	L752164-01	WG774291
Ethylbenzene	mg/l	0.0236	0.0243	94.4	61.4-133	3.05	20	L752164-01	WG774291
Hexachloro-1,3-butadiene	mg/l	0.0230	0.0248	92.2	55.1-136	7.17	23.6	L752164-01	WG774291
Isopropylbenzene	mg/l	0.0240	0.0253	92.8	66.8-141	5.37	20	L752164-01	WG774291
Methyl tert-butyl ether	mg/l	0.0219	0.0226	87.6	57.7-134	3.11	20	L752164-01	WG774291
Methylene Chloride	mg/l	0.0206	0.0212	82.3	58.1-122	2.96	20	L752164-01	WG774291
n-Butylbenzene	mg/l	0.0243	0.0267	95.5	62.7-140	9.34	20.3	L752164-01	WG774291
n-Propylbenzene	mg/l	0.0262	0.0281	90.8	65.9-131	6.91	20	L752164-01	WG774291
Naphthalene	mg/l	0.0230	0.0230	89.6	58-135	0.0100	25.5	L752164-01	WG774291
p-Isopropyltoluene	mg/l	0.0227	0.0258	90.9	63.2-139	12.6	20.4	L752164-01	WG774291
sec-Butylbenzene	mg/l	0.0233	0.0260	91.2	62.2-136	11.3	20.3	L752164-01	WG774291
Styrene	mg/l	0.0220	0.0230	88.1	66.8-133	4.44	20	L752164-01	WG774291
tert-Butylbenzene	mg/l	0.0226	0.0247	90.3	63.3-134	9.14	21	L752164-01	WG774291
Tetrachloroethene	mg/l	0.0245	0.0254	98.0	53-139	3.76	20	L752164-01	WG774291
Toluene	mg/l	0.0223	0.0232	89.0	61.4-130	4.28	20	L752164-01	WG774291
trans-1,2-Dichloroethene	mg/l	0.0208	0.0214	83.4	56.5-129	2.83	20	L752164-01	WG774291
trans-1,3-Dichloropropene	mg/l	0.0245	0.0253	98.0	64.1-128	3.03	20	L752164-01	WG774291
Trichloroethene	mg/l	0.0231	0.0236	92.5	44.1-149	2.01	20	L752164-01	WG774291
Trichlorofluoromethane	mg/l	0.0235	0.0242	94.0	49.6-145	3.00	21.2	L752164-01	WG774291

\* Performance of this Analyte is outside of established criteria.

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 Carl Parten  
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Irvine, CA 92614

Quality Assurance Report  
 Level II

L752170

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 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Vinyl chloride	mg/l	0.0262	0.0272	105.	47.8-137	3.82	20	L752164-01	WG774291
Xylenes, Total	mg/l	0.0704	0.0739	93.8	63.3-131	4.81	20	L752164-01	WG774291
4-Bromofluorobenzene				90.00	71-126				WG774291
Dibromofluoromethane				97.70	78.3-121				WG774291
Toluene-d8				100.0	88.5-111				WG774291
a,a,a-Trifluorotoluene				99.10	85-114				WG774291
TPHG C5 - C12	mg/kg	27.4	27.2	99.6	21.6-134	0.780	23.9	L752170-01	WG774452
a,a,a-Trifluorotoluene(FID)				98.20	59-128				WG774452
1,1,1,2-Tetrachloroethane	mg/kg	0.116	0.139	93.1	64-128	18.0	20	L752621-05	WG775215
1,1,1-Trichloroethane	mg/kg	0.108	0.126	86.6	58.7-134	14.8	20	L752621-05	WG775215
1,1,2,2-Tetrachloroethane	mg/kg	0.118	0.141	94.8	56-132	17.2	22.2	L752621-05	WG775215
1,1,2-Trichloroethane	mg/kg	0.109	0.127	87.5	66.3-125	15.0	20	L752621-05	WG775215
1,1,2-Trichlorotrifluoroethane	mg/kg	0.102	0.121	81.6	54.8-154	16.7	22.5	L752621-05	WG775215
1,1-Dichloroethane	mg/kg	0.105	0.122	84.4	58.5-132	14.2	20	L752621-05	WG775215
1,1-Dichloroethene	mg/kg	0.110	0.131	88.0	51.1-140	17.2	20.2	L752621-05	WG775215
1,1-Dichloropropene	mg/kg	0.106	0.126	85.0	57.3-136	16.8	20	L752621-05	WG775215
1,2,3-Trichlorobenzene	mg/kg	0.0988	0.119	79.1	59.1-138	18.8	23.7	L752621-05	WG775215
1,2,3-Trichloropropane	mg/kg	0.104	0.126	83.4	61.4-128	18.6	22.4	L752621-05	WG775215
1,2,3-Trimethylbenzene	mg/kg	0.103	0.120	82.2	61.3-122	15.2	20	L752621-05	WG775215
1,2,4-Trichlorobenzene	mg/kg	0.0994	0.119	79.6	63.6-143	17.9	21.9	L752621-05	WG775215
1,2,4-Trimethylbenzene	mg/kg	0.100	0.123	79.7	57.4-137	20.9*	20	L752621-05	WG775215
1,2-Dibromo-3-Chloropropane	mg/kg	0.125	0.145	99.9	57.3-136	14.8	27	L752621-05	WG775215
1,2-Dibromoethane	mg/kg	0.113	0.135	90.5	67.1-125	17.6	20	L752621-05	WG775215
1,2-Dichlorobenzene	mg/kg	0.104	0.121	83.0	68.2-123	15.3	20	L752621-05	WG775215
1,2-Dichloroethane	mg/kg	0.109	0.125	87.2	60-126	14.0	20	L752621-05	WG775215
1,2-Dichloropropane	mg/kg	0.101	0.118	80.8	64.2-123	16.0	20	L752621-05	WG775215
1,3,5-Trimethylbenzene	mg/kg	0.106	0.128	84.3	63.6-132	19.3	20.5	L752621-05	WG775215
1,3-Dichloroethane	mg/kg	0.105	0.127	84.4	63.1-131	18.3	20	L752621-05	WG775215
1,3-Dichloropropane	mg/kg	0.109	0.127	87.0	67.9-121	15.6	20	L752621-05	WG775215
1,4-Dichlorobenzene	mg/kg	0.0990	0.115	79.2	68.6-123	14.6	20	L752621-05	WG775215
2,2-Dichloropropane	mg/kg	0.0972	0.114	77.7	50.5-144	16.1	21.9	L752621-05	WG775215
2-Butanone (MEK)	mg/kg	0.606	0.707	96.9	22.4-138	15.5	27	L752621-05	WG775215
2-Chloroethyl vinyl ether	mg/kg	0.594	0.682	95.1	10-155	13.7	40	L752621-05	WG775215
2-Chlorotoluene	mg/kg	0.107	0.123	85.4	63.6-128	14.4	20	L752621-05	WG775215
4-Chlorotoluene	mg/kg	0.102	0.122	81.2	65.7-127	18.6	20	L752621-05	WG775215
4-Methyl-2-pentanone (MIBK)	mg/kg	0.645	0.756	103.	60.8-140	15.8	25.1	L752621-05	WG775215
Acetone	mg/kg	0.542	0.606	82.7	10-130	11.2	27.9	L752621-05	WG775215
Acrylonitrile	mg/kg	0.577	0.662	92.3	49.4-133	13.8	25.3	L752621-05	WG775215
Benzene	mg/kg	0.108	0.125	86.2	54.3-133	14.7	20	L752621-05	WG775215
Bromobenzene	mg/kg	0.100	0.120	80.4	63.9-124	17.9	20	L752621-05	WG775215
Bromodichloromethane	mg/kg	0.104	0.122	83.0	63.9-121	16.2	20	L752621-05	WG775215
Bromoform	mg/kg	0.115	0.139	92.3	59.5-134	18.6	20.8	L752621-05	WG775215
Bromomethane	mg/kg	0.0902	0.107	72.2	41.7-155	17.3	20.5	L752621-05	WG775215
Carbon disulfide	mg/kg	0.0984	0.114	78.7	43.3-149	14.7	21	L752621-05	WG775215
Carbon tetrachloride	mg/kg	0.120	0.138	95.8	55.7-134	14.4	20.3	L752621-05	WG775215
Chlorobenzene	mg/kg	0.109	0.129	87.4	67-125	16.9	20	L752621-05	WG775215
Chlorodibromomethane	mg/kg	0.113	0.133	90.8	64.3-125	15.6	20	L752621-05	WG775215
Chloroethane	mg/kg	0.0961	0.109	76.9	51.5-136	12.7	20.8	L752621-05	WG775215
Chloroform	mg/kg	0.103	0.119	82.6	63-129	13.9	20	L752621-05	WG775215
Chloromethane	mg/kg	0.0982	0.118	78.6	42.4-135	18.0	20	L752621-05	WG775215
cis-1,2-Dichloroethene	mg/kg	0.107	0.128	85.4	59.2-129	17.8	20	L752621-05	WG775215
cis-1,3-Dichloropropene	mg/kg	0.104	0.124	83.5	66.4-125	17.2	20	L752621-05	WG775215
Di-isopropyl ether	mg/kg	0.104	0.121	83.6	56.9-136	14.4	20	L752621-05	WG775215
Dibromomethane	mg/kg	0.103	0.122	82.8	68.2-124	16.3	20	L752621-05	WG775215
Dichlorodifluoromethane	mg/kg	0.102	0.124	81.4	40.6-144	20.0	20.2	L752621-05	WG775215

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 Carl Parten  
 2817 McGaw Avenue

Irvine, CA 92614

Quality Assurance Report  
 Level II

L752170

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 1-800-767-5859  
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Tax I.D. 62-0814289

Est. 1970

March 13, 2015

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Ethylbenzene	mg/kg	0.107	0.125	85.6	61.4-133	15.2	20	L752621-05	WG775215	
Hexachloro-1,3-butadiene	mg/kg	0.0953	0.114	76.2	55.1-136	18.0	23.6	L752621-05	WG775215	
Isopropylbenzene	mg/kg	0.109	0.132	87.1	66.8-141	19.3	20	L752621-05	WG775215	
Methyl tert-butyl ether	mg/kg	0.106	0.125	84.6	57.7-134	17.0	20	L752621-05	WG775215	
Methylene Chloride	mg/kg	0.101	0.120	79.9	58.1-122	17.2	20	L752621-05	WG775215	
n-Butylbenzene	mg/kg	0.0979	0.115	78.3	62.7-140	15.9	20	L752621-05	WG775215	
n-Propylbenzene	mg/kg	0.104	0.124	83.2	10-176	17.4	26.6	L752621-05	WG775215	
Naphthalene	mg/kg	0.105	0.121	83.8	58-135	14.3	25.5	L752621-05	WG775215	
p-Isopropyltoluene	mg/kg	0.108	0.128	86.6	63.2-139	16.6	20.4	L752621-05	WG775215	
sec-Butylbenzene	mg/kg	0.105	0.128	84.1	62.2-136	19.3	20.3	L752621-05	WG775215	
Styrene	mg/kg	0.108	0.129	86.6	66.8-133	17.5	20	L752621-05	WG775215	
tert-Butylbenzene	mg/kg	0.105	0.136	83.9	63.3-134	25.6*	20.3	L752621-05	WG775215	
Tetrachloroethene	mg/kg	0.111	0.133	89.0	53-139	17.8	20	L752621-05	WG775215	
Toluene	mg/kg	0.108	0.127	85.6	61.4-130	15.8	20	L752621-05	WG775215	
trans-1,2-Dichloroethene	mg/kg	0.113	0.128	90.2	56.5-129	12.5	20	L752621-05	WG775215	
trans-1,3-Dichloropropene	mg/kg	0.111	0.128	88.5	64.1-128	14.3	20	L752621-05	WG775215	
Trichloroethene	mg/kg	0.114	0.132	91.0	44.1-149	14.8	20	L752621-05	WG775215	
Trichlorofluoromethane	mg/kg	0.0367	0.114	29.4*	49.6-145	103.*	21.2	L752621-05	WG775215	
Vinyl chloride	mg/kg	0.117	0.135	93.5	47.8-137	14.4	20	L752621-05	WG775215	
Xylenes, Total	mg/kg	0.318	0.380	84.5	63.3-131	17.7	20	L752621-05	WG775215	
4-Bromofluorobenzene				99.50	71-126				WG775215	
Dibromofluoromethane				94.60	78.3-121				WG775215	
Toluene-d8				101.0	88.5-111				WG775215	
a,a,a-Trifluorotoluene				106.0	85-114				WG775215	

Batch number / Run number / Sample number cross reference

WG774607: R3023776: L752170-01 03 05 07 09  
 WG774317: R3023829: L752170-04 06 08 10  
 WG774660: R3023927: L752170-01 03 05 07 09  
 WG774648: R3023949: L752170-02 04 06 08 10  
 WG774307: R3024123: L752170-01 03 05 07  
 WG774291: R3024364: L752170-02 04 06 08 10  
 WG775401: R3024488: L752170-02 04 06 08  
 WG774452: R3024519: L752170-01 03 05 07 09  
 WG775215: R3024543: L752170-09

\* \* Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criteria.

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Est. 1970

March 13, 2015

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.



Office Location Irvine CA

Project Manager Carl Parten

Sampler's Name

CHARLES H. YOON

Sampler's Signature

Charles H. Yoon

Proj. No. 60159016 4432

Project Name

Sears store #1298 Riverside

No/Type of Containers

10/ 4-oz cans

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	P/O
S	3-6-15	8:00		X	p-1 (21-22)						
S		9:15			p-1 (31-32)						
W		9:30			p-1 (30-35)						
S		11:00			p-2 (25-26)						
S		11:20			p-2 (30-31)						
W		11:25			p-2 (30-35)						
S		12:10			p-3 (14-15)						
S		12:40			p-3 (31-32)						
W		12:50			p-3 ( <del>30-35</del> ) (35-40)						
S		1:30			p-4 (14-15)						

ANALYSIS REQUESTED

TDM-GRA DEP. ORA EPA Method 8015M  
 VOCs EPA Method 8260B  
 HOLDs

Lab use only  
Due Date: \_\_\_\_\_

Temp. of coolers when received (C°):

1	2	3	4	5
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Page 1 of 2

B063

Lab Sample ID (Lab Use Only)

L752170-01

02  
03

HOLD - Analyze (TDM VOCs)  
Analyze - HOLD.

06  
07

Turn around time  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature) <u>Charles H. Yoon</u>	Date: <u>3-6-15</u>	Time:	Received by: (Signature)	Date:	Time: <u>09:00</u>
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date: <u>3/7/15</u>	Time: <u>11:00</u>

NOTES:  
5.1  
3.4"  
24 total

03-0021

Matrix Container: WW - Wastewater VOA - 40 ml vial  
 W - Water A/G - Amber / Or Glass 1 Liter  
 S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil  
 P/O - Plastic or other



Cooler Receipt Form

Client: Terraron Irvine Tx

Cooler Received On: 3/7/15 and Opened On: 3/7/15 By: Scott Luman

[Signature]  
(Signature)

Temperature of cooler when opened: 3.4 Degrees Celsius/ Was sufficient ice used: Yes  No

What kind of packing material was used?	Bubblewrap	Peanuts	Other	None	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			Yes	No	N/A
Were custody seals on outside of cooler and intact?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody papers properly filled out (ink, signed, etc.)?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did you sign the custody papers in the appropriate place?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottles arrive in good condition?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were all bottle labels complete? (#, date, signed, pres, etc)?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels and tags agree with custody papers?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct bottles used for the analyses requested?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was sufficient amount of sample sent in each bottle?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct preservatives used?			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If applicable, was an observable VOA headspace present?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Non Conformance Generated: (See attached NCF if yes)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**ESC Lab Sciences**  
**Non-Conformance Form**

Login #: L752170	Client: TERRAICA	Date: 03/07/15	Evaluated by: Scott

**Non-Conformance (check applicable items)**

Sample Integrity	Chain of Custody Clarification	
Parameter(s) past holding time	Login Clarification Needed	<b>If Broken Container:</b>
Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
Improper preservation	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Couri
Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
Vials received with headspace.	Trip Blank not received.	<b>If no Chain of Custody:</b>
X Broken container	Client did not "X" analysis.	Received by:
Broken container:	Chain of Custody is missing	Date/Time:
Sufficient sample remains		Temp./Cont. Rec./pH:
		Carrier:
		Tracking#

**Login Comments: Received one broken vial for P1 (30-35). Two vials remaining. Not enough sample volume to run all analysis client requests. Please advise.**

Client informed by:	Call X	Email	Voice Mail	Date: 3/9/15	Time: 1340
TSR Initials: JW	Client Contact: Charles Yoon				

**Login Instructions: Log P1 (30-35) for DROOROLVI and V8260. Please also change sample ID to "TSW-1 (30-35) per client.**