CON 12-15
Doc #30131

Limited Site Investigation Report

Former Liftruck Service Company

3801 West River Drive

Davenport, Scott County, Iowa

October 10, 2014

Terracon Project No. 07147067

Prepared for:
Shaw Electric Inc.
Davenport, Iowa

Prepared by:
Terracon Consultants, Inc.
Bettendorf, Iowa

Terracon

October 10, 2014

Shaw Electric Inc.
930 East River Drive
Davenport, Iowa 52803

Attn: Mr. Rick Schaefer
P: 563-323-3611
E: rlschaefer@shawelec.com

Re: Limited Site Investigation
Liftruck Service Company
3801 West River Drive
Davenport, Scott County, Iowa
Terracon Project No. 07147067

Dear Mr. Schaefer:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report for the Limited Site Investigation (LSI) activities completed at the site referenced above. This assessment was performed in accordance with Terracon Proposal No. P07140258 dated September 19, 2014. 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.

We appreciate the opportunity to be of service to you on this project. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,
Terracon Consultants, Inc.

Krista A. Brodersen
Senior Project Manager

for: Kirk R. Johnson, PG, CGP
Environmental Project Manager

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APPENDICES

LIMITED SITE INVESTIGATION
FORMER LIFTRUCK SERVICE COMPANY
3801 WEST RIVER DRIVE
DAVENPORT, SCOTT COUNTY, IOWA

Project No. 07147067
October 10, 2014

1.0 INTRODUCTION

Terracon has completed LSI activities at the Former Liftruck Service Company as described in our proposal dated September 19, 2014.

Site Name	Former Liftruck Service Company
Site Location/Address	3801 West River Drive, Davenport, Scott County, Iowa
General Site Description	The site is approximately 3.6 acres of land developed with three structures formerly occupied by Liftruck Services, Inc.

A Topographic Vicinity Map is included as Exhibit 1 in Appendix A. A Boring Location Diagram is included as Exhibit 2 in Appendix A.

2.0 SCOPE OF SERVICES

Terracon's LSI was undertaken in response to the following recognized environmental conditions (RECs) identified in a Phase I Environmental Site Assessment report dated September 15, 2014 (Terracon Project # 07147729) for the site:

- Gage Metalcraft Facility (machine shop) to the west of the site;
- Surficial floor staining near the oil burner and used oil storage;
- Lack of documentation related to the length of time and materials used as part of the historic paint operations;
- Historic use of the wash bay pit for containing rinsate water and the unconfirmed integrity of the pit;
- An area of stressed vegetation near the exterior drum storage location; and
- Although not considered a REC, the area of the former underground storage tank (UST) is a Historical REC (HREC).

The objective of the LSI was to gather preliminary information regarding the potential presence of indicator contaminants associated with the RECs and HREC in on-site soils and groundwater.

3.0 FIELD SERVICES

3.1 Soil Borings and Temporary Monitor Wells

Terracon performed field activities on September 25, 2014, under Level D safety precautions consisting of a washable work uniform, safety shoes, hardhat, rubber gloves, and appropriate eye protection. Drilling and sample collection equipment was cleaned before beginning the project and before beginning each borehole. Terracon cleaned non-expendable sampling supplies at the beginning of the project and between each soil sample by hand scrubbing in an Alconox™ and potable water solution followed by rinsing in potable water.

Terracon mobilized a truck-mounted Geoprobe® direct push drill rig to advance five boreholes at the site for the collection of soil and groundwater samples. B1 was located in the vicinity of the former UST. B2 was located in an area of stressed vegetation near the exterior drum storage location. B3 was located inside the main building near the wash bay pit. B4 and B5 were located inside the building near the oil burner and used oil storage. One soil sample was collected from each boring for laboratory analysis.

Groundwater was encountered in each boring from between 10 and 15 feet below ground surface (bgs). After these borings were terminated at a depth of approximately 15 feet bgs, they were converted to temporary monitor wells to evaluate groundwater within the assessment area. The wells were completed as follows:

- Installation of 10 feet of 1-inch diameter, 0.010-inch machine slotted polyvinyl chloride (PVC) well screen with a threaded bottom cap; and
- Installation of 1-inch diameter, threaded, flush joint PVC riser pipe to the surface.

Upon completion of sampling, the well risers and screens were removed and the borings were backfilled to ground surface in accordance with state regulations and guidelines. Excess soil cuttings and purged groundwater generated during the field activities were left on-site in accordance with accepted local, state, and federal protocols.

3.2 Soil and Groundwater Sampling

At each borehole location, Terracon field screened soil samples for organic vapors using a photoionization detector (PID) while drilling. 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 sealed bag. After a stabilization period, Terracon screened the headspace above the soil using the PID equipped with a 10.6 electron-volt (eV) ultraviolet lamp source. Terracon calibrated the PID in accordance with the manufacturer's recommendations before the field activities. The boring logs in Appendix B include the field screening results for each soil boring. Elevated PID responses were not observed.

Terracon collected soil samples continuously throughout the drilled borings. Terracon logged the recovered soil based on visual classification and apparent textural properties of the recovered samples. The boring logs in Appendix B describe the soil types observed. Soil samples were collected for laboratory analysis from soil borings at the following approximately depths: B1 at 7 to 8 feet below ground surface (bgs); B2 at 1 to 2 feet bgs; B3 at 3 to 4 feet bgs; B4 at 5 to 6 feet bgs; and B5 at 0 to 1 feet bgs.

Disposable bailers were used to remove groundwater samples from the temporary wells and place them into laboratory-provided containers. Groundwater samples were designated B1 W through B5 W according to the temporary well from which they were collected. The groundwater samples to be analyzed for metals were field filtered through a 0.45-micron filter prior to preservation.

After packaging the soil and groundwater samples in laboratory-provided containers, Terracon recorded the sample time on the container labels in permanent ink and placed the containers on ice in a cooler for transport to TestAmerica, Inc. in Cedar Falls, Iowa, an Iowa-accredited laboratory.

The soil and groundwater samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260, total extractable hydrocarbons (TEH) by Iowa Method OA-2, and arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver by USEPA Method 6010/7471.

4.0 DATA EVALUATION

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

4.1 Soil Samples

Table 1 below lists the reported concentrations of VOCs, TEH constituents, and metals detected in soil samples above the laboratory's reporting limits. For comparative purposes, the Iowa Statewide Standards (SWS)[1] are included on Table 1.

[1] Iowa Administrative Code 567, Chapter 137.5

Table 1: Laboratory Analytical Results for Soil (mg/kg)

Parameter	B1 (7'- 8')	B2 (1'- 2')	B3 (3'- 4')	B4 (5'- 6')	B5 (0' – 1')	SWS
TEH Constituents						
Waste Oil	<9.91	<9.99	<9.60	<9.71	117	9,400
Total Extractable Hydrocarbons	<9.91	15.9*	10.7*	16.4*	<9.60	N/A
RCRA Metals						
Barium	50.8	54.5	44.5	45.9	66.2	15,000
Cadmium	<2.8	<2.47	<2.96	<2.84	7.85	70
Chromium	12.9	9.26	10.1	11.2	13.3	97,000

mg/kg = milligrams of contaminant per kilogram of soil

* = The chromatographic response does not resemble a typical fuel pattern.

TEH waste oil range organics were reported in the soil sample from boring B5 near the oil burner at a concentration below the SWS. Other TEH range organics that may not be related to fuels or solvents were reported for the soil samples from borings B2, B3, and B4 located near the drum storage, wash bay pit and oil burner, respectively. The chromatographic patterns produced by the laboratory instrumentation for the TEH waste oil analysis of groundwater samples did not resemble a typical fuel pattern.

The metals barium, cadmium and chromium were reported in the soil samples at concentrations below their respective SWS. Barium and chromium occur naturally in soils, and the reported concentrations of barium and chromium in soils appear to represent background conditions[2].

4.2 Groundwater Samples

Table 2 below lists the reported concentrations of VOCs, TEH constituents, and metals in groundwater samples above the laboratory's reporting limits. For comparative purposes, the SWS are included on Table 2.

[2] *The Iowa State-Wide Trace Element Soil Sampling Project: Design and Implementation, IDNR, Rowden, 2010*

Table 2: Laboratory Analytical Results for Groundwater (mg/L)

Parameter	B1 W	B2 W	B3 W	B4 W	B5 W	SWS for Protected Groundwater
VOCs						
Acetone	<0.010	0.0118	<0.010	<0.010	<0.010	6.3
Methyl tert-butyl ether (MTBE)	0.00135	<0.001	<0.001	<0.001	<0.001	0.21
Naphthalene	<0.005	<0.005	<0.005	<0.005	0.00514	0.1
TEH Constituents						
Waste Oil	0.534	<0.221	<0.221	<0.221	<0.221	0.73
Dissolved Metals						
Arsenic	**0.023**	<0.002	<0.002	0.00341	**0.0127**	0.01
Barium	0.321	0.162	0.340	0.290	0.361	2

mg/L = milligrams of contaminant per liter of groundwater

The VOC acetone was reported for the groundwater sample collected from temporary well B2 W located in the area near the exterior drum storage location at a concentration below the SWS. Acetone is a common solvent for oils, resins, varnish and lacquers, but is also commonly used in laboratories and its occurrence in the groundwater sample could be a laboratory artifact. The VOC methyl tert-butyl ether was reported for the groundwater sample collected from temporary well B1 W located in the vicinity of the former UST. Methyl tert-butyl ether is commonly associated with gasoline releases. The VOC naphthalene was reported for the groundwater sample collected from temporary well B5 W located in the vicinity of the oil burner. Naphthalene is associated with oils and heavy fuels.

TEH waste oil was reported for one groundwater sample at a concentration below the SWS. Barium was reported for the groundwater samples at concentrations below the SWS. Arsenic was reported for groundwater samples B1 W and B5 W at concentrations above the SWS.

5.0 CONCLUSIONS

As part of the LSI, soil and groundwater samples were collected for laboratory analysis from the five soil borings advanced. Soil samples were screened for volatile organic vapors using a PID and there were no significant PID responses to volatile organic vapors.

TEH waste oil range organics were reported for the soil sample collected near the oil burner at a concentration below the SWS. Other TEH range organics that may not be related to fuels or solvents were reported for the soil samples from borings B2, B3, and B4 located near the drum storage, wash bay pit and oil burner, respectively.

The metals barium, cadmium and chromium were reported in the soil samples at concentrations below their respective SWS. Barium and chromium occur naturally in soil and the reported concentrations may represent natural background conditions.

The VOCs acetone, methyl tert-butyl ether, and naphthalene were reported in three of the groundwater samples at concentrations below the SWS. Acetone is a common laboratory reagent and can be a common laboratory artifact and does not necessarily represent an environmental impact. The reported methyl tert-butyl ether in groundwater likely originated from the former UST, and the reported naphthalene in groundwater likely originated from oil spillage in the area the oil burner.

TEH waste oil range organics was reported for the groundwater sample from B1 W at a concentration below the SWS and likely originated from the former UST.

The metal barium was reported for groundwater samples at concentrations below the SWS. This metal occurs naturally in soil and groundwater, and the reported concentrations may represent natural background conditions.

The metal arsenic was reported for two groundwater samples (B1 W and B5 W) at concentrations above the SWS. The source of the impact is unknown and it is uncertain whether the impacts may be related to the former operations. Additionally, elevated arsenic was not detected in the soil samples from B1 and B5, which would suggest an off-site source. During the Phase I ESA, the former Gage Metalcraft Facility to the west of the site was identified as a concern to the site due to the former use of the facility as a metal fabrication facility and the Brownfield status. An initial investigation was conducted at the facility in 2012 that indicated several metals, including arsenic, and TEH as motor oil were detected in groundwater samples at concentrations exceeding the applicable SWS. In 2013, an additional investigation was conducted at the facility that indicated reported concentrations of chromium in one groundwater sample above the SWS for a protected groundwater source (but below the standard for a non-protected groundwater source). Subsequently, an application for the facility to be entered into the LRP was submitted. IDNR correspondence dated January 29, 2013 indicated that the IDNR did not require additional follow-up action based on the findings of the additional assessments and provided comment regarding future assessments at the site to meet the criteria for protection under the LRP. In IDNR correspondence dated January 14, 2014, the IDNR stated that the facility would be removed from consideration from the LRP by the IDNR on February 28, 2014 as the owner did not respond to the previous IDNR correspondence. In an e-mail on September 11, 2014, IDNR Project Manager Greg Fuhrmann indicated that, as a response was not received by the requested date, the facility was removed from consideration for the LRP and the status of the facility is still listed as “open.” Based on the open status of this facility, its upgradient location from the site, and that arsenic was reported for groundwater above the SWS, it is possible the arsenic detected in on-site groundwater samples has migrated from the former Gage Metalcraft Facility.

6.0 GENERAL COMMENTS

Terracon has performed these LSI activities in general accordance with the scope and limitations of the Agreement for Services between Terracon and the client. The analysis presented in this report is based upon data obtained from field activities and from other information discussed in this report. The findings summarized above have documented the presence of chemicals of concern in soil and groundwater at the property at the locations tested. The client should understand the limitations of this data in formulating conclusions regarding the environmental risks associated with this property. Fate and transport of chemicals in the subsurface can vary significantly across a given site. Additional testing would be required to define the lateral and vertical extent of the chemicals of concern in the subsurface.

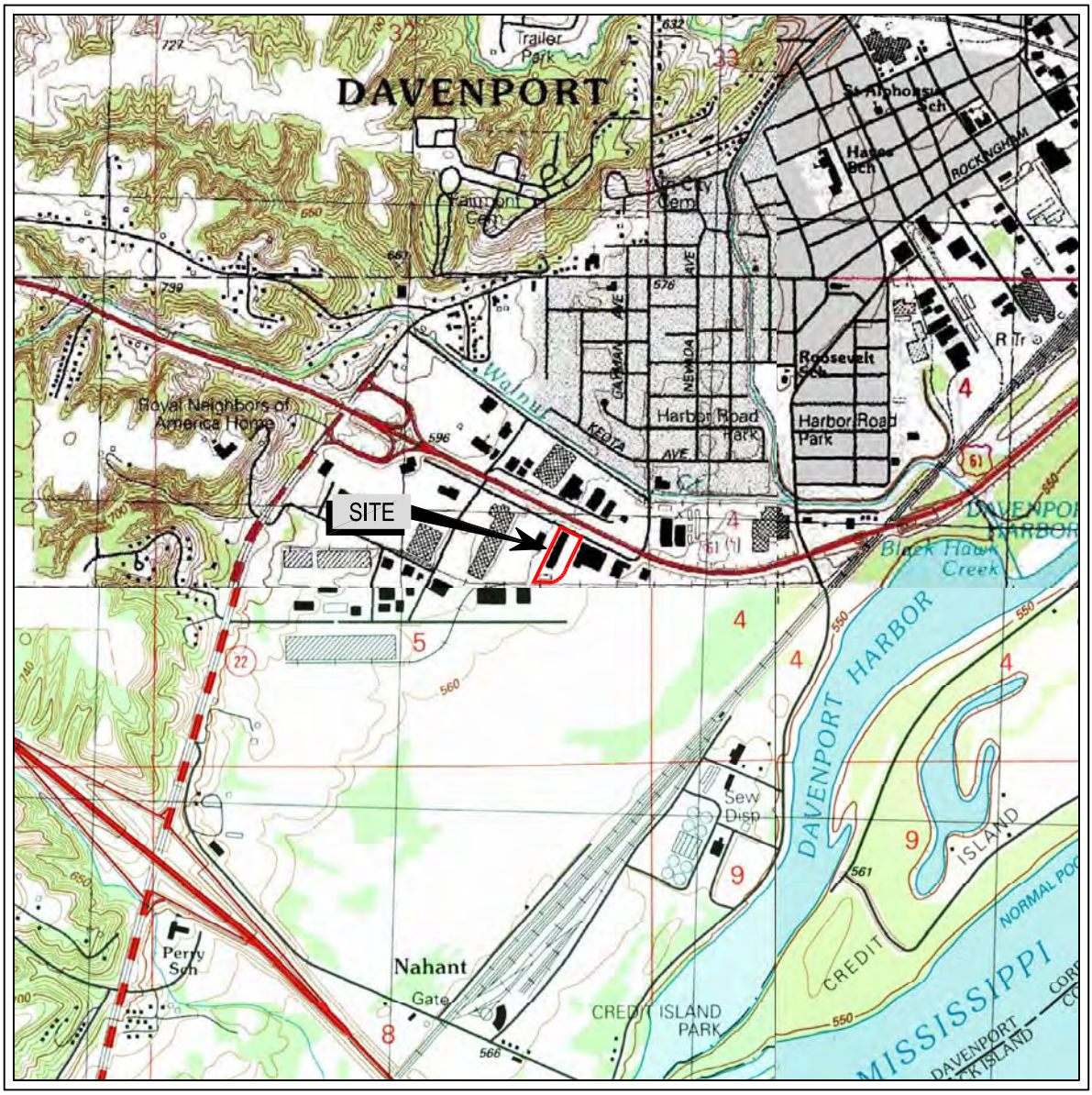
Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of other consultants, laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report.

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the onsite 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, non-detectable, or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this rec's. 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, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

APPENDIX A

EXHIBIT 1 – TOPOGRAPHIC VICINITY MAP
EXHIBIT 2 – BORING LOCATION DIAGRAM

UNITED STATES – DEPARTMENT OF THE INTERIOR – GEOLOGICAL SURVEY



SCALE 1:24 000

1 .5 0 KILOMETERS 1 2

1000 0 METERS 1000 2000

1 .5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000

FEET

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

QUADRANGLE

*DAVENPORT WEST, IA 1991 & DAVENPORT EAST, IA–IL 1993
MILAN, IL–IA 2000 & ANDALUSIA, IL–IA 1991

7.5 MINUTE SERIES (TOPOGRAPHIC)

*INDICATES WHICH MAP SITE IS LOCATED ON

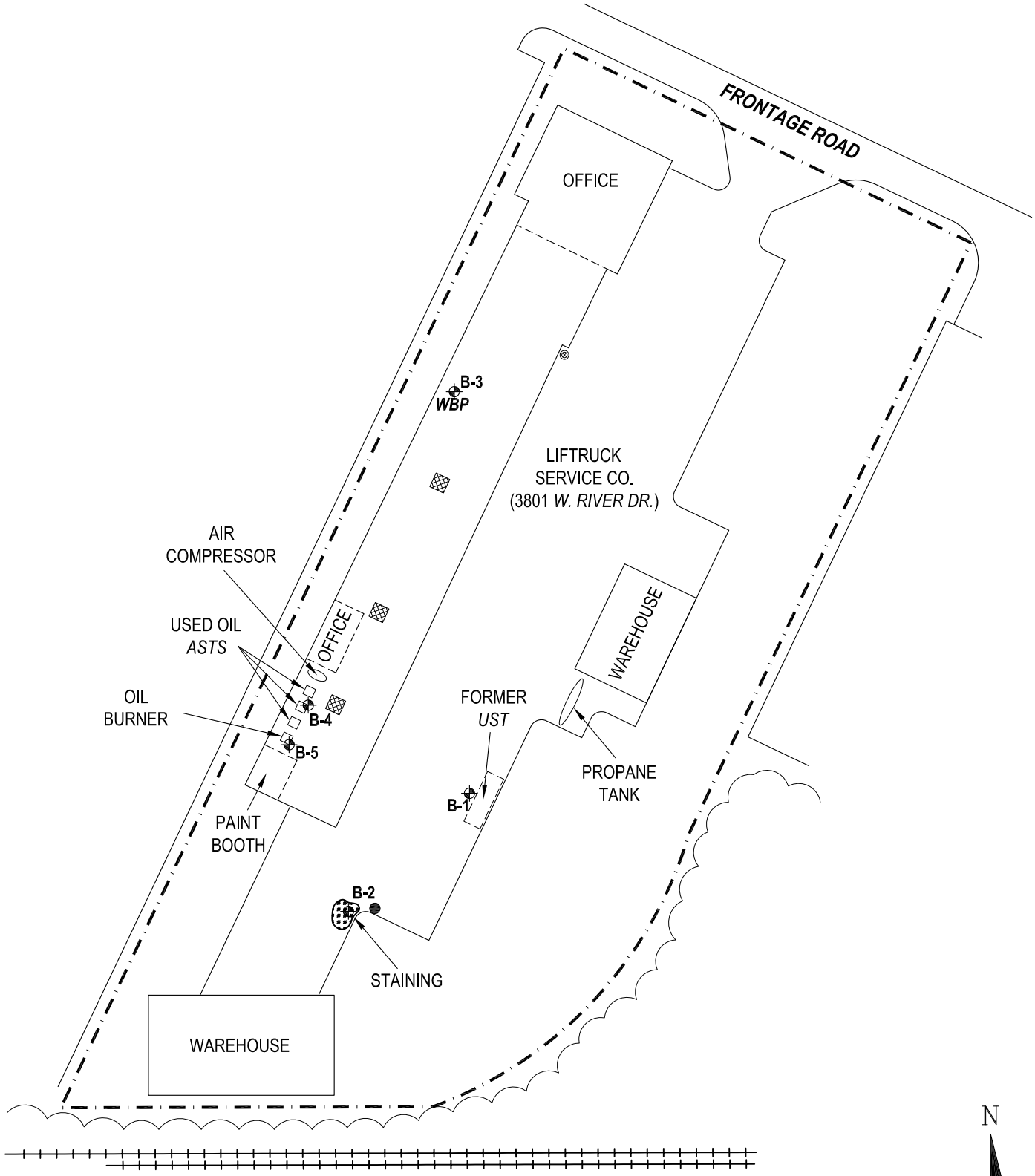
Project Mngr:	KAB
Drawn By:	SEG
Checked By:	MRF/KAB
Approved By:	JRB
Project No.	07147067
Scale:	AS SHOWN
File No.	LSI07147067-1
Date:	OCTOBER 2014

Terracon
Consulting Engineers and Scientists
870 40th Avenue Bettendorf, Iowa 52722
(563) 355-0702 (563) 355-4789

TOPOGRAPHIC VICINITY MAP

LIMITED SITE INVESTIGATION
LIFTRUCK SERVICE CO.
3801 WEST RIVER DRIVE
DAVENPORT, IOWA

EXHIBIT 1



LEGEND

- SITE
- RAILROAD TRACKS
- DRAIN
- PROPOSED BORING LOCATION
- SUMP
- (10) 55-GALLON DRUMS
- WBP — WASH BAY PIT

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	KAB
Drawn By:	SEG
Checked By:	MRF/KAB
Approved By:	JRB
Project No.	07147067
Scale:	AS SHOWN
File No.	LSI07147067-2
Date:	OCTOBER 2014

Terracon
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870 40th Avenue Bettendorf, Iowa 52722
(563) 355-0702 (563) 355-4789

BORING LOCATION DIAGRAM
LIMITED SITE INVESTIGATION
LIFTRUCK SERVICE CO.
3801 WEST RIVER DRIVE
DAVENPORT, IOWA

EXHIBIT
2

APPENDIX B

SOIL BORING LOGS

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

SAMPLING


Auger


Split Spoon


Shelby Tube


Macro Core


Ring Sampler


Rock Core


Grab Sample


No Recovery

WATER LEVEL


Water Initially Encountered


Water Level After a Specified Period of Time


Water Level After a Specified Period of Time

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.

FIELD TESTS

(HP)	Hand Penetrometer
(T)	Torvane
(b/f)	Standard Penetration Test (blows per foot)
(PID)	Photo-Ionization Detector
(OVA)	Organic Vapor Analyzer

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.

STRENGTH TERMS

RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance Includes gravels, sands and silts.			CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance			
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

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

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
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)

RELATIVE PROPORTIONS OF FINES

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

PLASTICITY DESCRIPTION

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

Terracon

UNIFIED SOIL CLASSIFICATION SYSTEM

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

[A] Based on the material passing the 3-inch (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] 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.

[D] 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

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

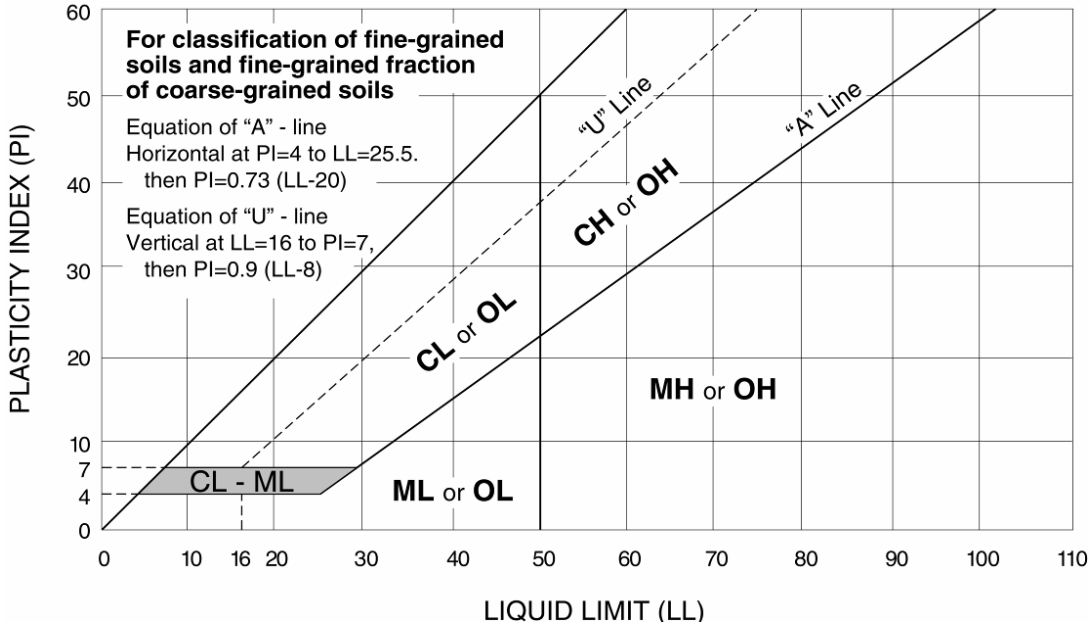
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



Terracon

BORING LOG NO. B1

PROJECT: Former Liftruck Service Company LSI

CLIENT: Shaw Electric, Inc.
Davenport, Iowa

SITE: 3801 West River Drive
Davenport, Iowa

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)
0.5	**CONCRETE**				1
	FILL-CRUSHED ROCK				2
2.0	**SAND**, medium grained, dark gray, moderate petroleum odor, some staining				2
					3
		5			3
					3
					4
8.0					4
	CLAY, dark gray, moderate petroleum odor				4
					3
		10			3
	gray, weak petroleum odor, little staining		▽		3
12.0					2
	SAND, medium grained, dark brown, no petroleum odor, wet				2
					2
		15			1
16.0					
	Boring Terminated at 16 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:
Geoprobe

Abandonment Method:
Boring backfilled with soil cuttings upon completion

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

See Appendices for explanation of symbols and abbreviations.

Notes:
Soil sampled from 7 to 8 feet below ground surface (bgs).

WATER LEVEL OBSERVATIONS

▽ *12' while drilling*

Terracon
870 40th Avenue
Bettendorf, Iowa

Boring Started: 9/25/2014 | Boring Completed: 9/25/2014

Drill Rig: Geoprobe | Driller: Dynamic Push Analytical

Project No.: 07147067 | Exhibit: B-1

BORING LOG NO. B2

PROJECT: Former Liftruck Service Company LSI

CLIENT: Shaw Electric, Inc.
Davenport, Iowa

SITE: 3801 West River Drive
Davenport, Iowa

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)
0.5	**CONCRETE**				2
	FILL-SIILTY CLAY, trace demolition debris				4
					3
3.5					4
	CLAY, dark brown				4
		5			3
					3
	grayish-brown				3
					3
		10			3
					3
					2
					3
					3
15.0	trace sand		▽		3
	Boring Terminated at 15 Feet	15			

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:
Geoprobe

Abandonment Method:
Boring backfilled with soil cuttings upon completion

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

See Appendices for explanation of symbols and abbreviations.

Notes:
Soil sampled from 1 to 2 feet bgs.

WATER LEVEL OBSERVATIONS

▽ *15' while drilling*

Terracon
870 40th Avenue
Bettendorf, Iowa

Boring Started: 9/25/2014 | Boring Completed: 9/25/2014

Drill Rig: Geoprobe | Driller: Dynamic Push Analytical

Project No.: 07147067 | Exhibit: B-2

BORING LOG NO. B3

PROJECT: Former Liftruck Service Company LSI

CLIENT: Shaw Electric, Inc.
Davenport, Iowa

SITE: 3801 West River Drive
Davenport, Iowa

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)
	CONCRETE				1
1.0	**SAND**, fine to medium grained, brown, weak odor, wet				1
					3
					3
		5			3
					2
					2
8.0					2
	CLAY, grayish-brown				2
		10			2
					3
12.0			▽		2
	SANDY CLAY, light brown				2
					2
		15			2
16.0					1
	Boring Terminated at 16 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:
Geoprobe

Abandonment Method:
Boring backfilled with soil cuttings upon completion

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

See Appendices for explanation of symbols and abbreviations.

Notes:
Soil sampled from 3 to 4 feet bgs.

WATER LEVEL OBSERVATIONS

▽ *12' while drilling*

Terracon
870 40th Avenue
Bettendorf, Iowa

Boring Started: 9/25/2014 | Boring Completed: 9/25/2014

Drill Rig: Geoprobe | Driller: Dynamic Push Analytical

Project No.: 07147067 | Exhibit: B-3

BORING LOG NO. B4

PROJECT: Former Liftruck Service Company LSI

CLIENT: Shaw Electric, Inc.
Davenport, Iowa

SITE: 3801 West River Drive
Davenport, Iowa

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)
0.8	**CONCRETE**				2
1.5	**FILL-CRUSHED ROCK**				2
	SAND, fine to medium grained, dark brown				2
					2
					3
		5			3
					2
7.5					2
	CLAY, dark brown				3
					2
		10			2
					2
12.5			▽		2
	SAND, fine to medium grained, brown, wet				1
					1
		15			1
16.0	***Boring Terminated at 16 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:
Geoprobe

Abandonment Method:
Boring backfilled with soil cuttings upon completion

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

See Appendices for explanation of symbols and abbreviations.

Notes:
Soil sampled from 5 to 6 feet bgs.

WATER LEVEL OBSERVATIONS

▽ *12.5' while drilling*

Terracon
870 40th Avenue
Bettendorf, Iowa

Boring Started: 9/25/2014 | Boring Completed: 9/25/2014

Drill Rig: Geoprobe | Driller: Dynamic Push Analytical

Project No.: 07147067 | Exhibit: B-4

BORING LOG NO. B5

PROJECT: Former Liftruck Service Company LSI

CLIENT: Shaw Electric, Inc.
Davenport, Iowa

SITE: 3801 West River Drive
Davenport, Iowa

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)
0.5	**CONCRETE**				6
1.5	**FILL-SAND/CRUSHED ROCK**				3
	SANDY CLAY, dark brown				3
					2
					3
		5			3
					3
7.0					2
	CLAY, dark brown				3
					2
		10			4
	gray				3
					3
					2
15.0			▽		2
	SANDY CLAY, grayish-brown	15			2
16.0					
	Boring Terminated at 16 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:
Geoprobe

Abandonment Method:
Boring backfilled with soil cuttings upon completion

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

See Appendices for explanation of symbols and abbreviations.

Notes:
Soil sampled from 0 to 1 feet bgs.

WATER LEVEL OBSERVATIONS

▽ *15' while drilling*

Terracon
870 40th Avenue
Bettendorf, Iowa

Boring Started: 9/25/2014 | Boring Completed: 9/25/2014

Drill Rig: Geoprobe | Driller: Dynamic Push Analytical

Project No.: 07147067 | Exhibit: B-5

APPENDIX C

ANALYTICAL REPORTS AND CHAIN OF CUSTODY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-40044-1
Client Project/Site: Liftruck Service Company LSI

For:
Terracon Consulting Eng & Scientists
870 40th Avenue
Bettendorf, Iowa 52722

Attn: Carla Duncan

Authorized for release by:
10/6/2014 11:09:58 AM

Shawn Hayes, Project Manager II
(319)277-2401
shawn.hayes@testamericainc.com

Table of Contents

Job ID: 310-40044-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-40044-1

Comments
No additional comments.

Receipt
The samples were received on 9/26/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.4º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 62530 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane(-20.3%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 310-62530/3).

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 62530 recovered outside control limits for the following analytes: Methylene chloride. Methylene chloride is a common lab solvent.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 62912 recovered above the upper control limit for Carbon disulfide(41.1%D), 1,2,4-Trichlorobenzene(24.1%D), and n-Buytlbenzene(23.4%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 310-62912/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The following samples were diluted due to the presence of an interferent. B1 7-8 (310-40044-1), B2 1-2 (310-40044-3), B3 3-4 (310-40044-5), B5 0-1 (310-40044-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-40044-1	B1 7-8	Soil	09/25/14 09:10	09/26/14 08:45
310-40044-2	B1 W	Ground Water	09/25/14 09:45	09/26/14 08:45
310-40044-3	B2 1-2	Soil	09/25/14 10:15	09/26/14 08:45
310-40044-4	B2 W	Ground Water	09/25/14 15:00	09/26/14 08:45
310-40044-5	B3 3-4	Soil	09/25/14 11:05	09/26/14 08:45
310-40044-6	B3 W	Ground Water	09/25/14 11:35	09/26/14 08:45
310-40044-7	B4 5-6	Soil	09/25/14 12:40	09/26/14 08:45
310-40044-8	B4 W	Ground Water	09/25/14 13:20	09/26/14 08:45
310-40044-9	B5 0-1	Soil	09/25/14 13:50	09/26/14 08:45
310-40044-10	B5 W	Ground Water	09/25/14 14:25	09/26/14 08:45

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B1 7-8 — Lab Sample ID: 310-40044-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	50.8		1.40		mg/Kg	3	☼	6010C	Total/NA
Chromium	12.9		2.80		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: B1 W — Lab Sample ID: 310-40044-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.35		1.00		ug/L	1		8260C	Total/NA
Waste Oil	534		221		ug/L	1		OA-2	Total/NA
Arsenic	0.0230		0.00200		mg/L	1		6020A	Dissolved
Barium	0.321		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: B2 1-2 — Lab Sample ID: 310-40044-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	15.9	Z	9.99		mg/Kg	1		OA-2	Total/NA
Barium	54.5		1.23		mg/Kg	3	☼	6010C	Total/NA
Chromium	9.26		2.47		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: B2 W — Lab Sample ID: 310-40044-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11.8		10.0		ug/L	1		8260C	Total/NA
Barium	0.162		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: B3 3-4 — Lab Sample ID: 310-40044-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	10.7	Z	9.60		mg/Kg	1		OA-2	Total/NA
Barium	44.5		1.48		mg/Kg	3	☼	6010C	Total/NA
Chromium	10.1		2.96		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: B3 W — Lab Sample ID: 310-40044-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.340		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: B4 5-6 — Lab Sample ID: 310-40044-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Extractable Hydrocarbons	16.4	Z	9.71		mg/Kg	1		OA-2	Total/NA
Barium	45.9		1.42		mg/Kg	3	☼	6010C	Total/NA
Chromium	11.2		2.84		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: B4 W — Lab Sample ID: 310-40044-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00341		0.00200		mg/L	1		6020A	Dissolved
Barium	0.290		0.00200		mg/L	1		6020A	Dissolved

Client Sample ID: B5 0-1 — Lab Sample ID: 310-40044-9

This Detection Summary does not include radiochemical test results.

Client Sample ID: B5 0-1 (Continued)

Lab Sample ID: 310-40044-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Waste Oil	117		9.60		mg/Kg	1		OA-2	Total/NA
Barium	66.2		1.30		mg/Kg	3	☼	6010C	Total/NA
Cadmium	7.85		2.60		mg/Kg	3	☼	6010C	Total/NA
Chromium	13.3		2.60		mg/Kg	3	☼	6010C	Total/NA

Client Sample ID: B5 W

Lab Sample ID: 310-40044-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	5.14		5.00		ug/L	1		8260C	Total/NA
Arsenic	0.0127		0.00200		mg/L	1		6020A	Dissolved
Barium	0.361		0.00200		mg/L	1		6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B1 7-8
Date Collected: 09/25/14 09:10
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-1
Matrix: Soil
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<141		141		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Benzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Bromobenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Bromochloromethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Bromodichloromethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Bromoform	<28.2		28.2		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Bromomethane	<56.3		56.3		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
2-Butanone (MEK)	<141		141		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
n-Butylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
sec-Butylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
tert-Butylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Carbon disulfide	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Carbon tetrachloride	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Chlorobenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Chlorodibromomethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Chloroethane	<56.3		56.3		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Chloroform	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Chloromethane	<56.3		56.3		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
2-Chlorotoluene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
4-Chlorotoluene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2-Dibromo-3-Chloropropane	<141		141		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2-Dibromoethane (EDB)	<141		141		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Dibromomethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2-Dichlorobenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,3-Dichlorobenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,4-Dichlorobenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Dichlorodifluoromethane	<42.2		42.2		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1-Dichloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2-Dichloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1-Dichloroethene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
cis-1,2-Dichloroethene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
trans-1,2-Dichloroethene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2-Dichloropropane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,3-Dichloropropane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
2,2-Dichloropropane	<56.3		56.3		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1-Dichloropropene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
cis-1,3-Dichloropropene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
trans-1,3-Dichloropropene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Ethylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Hexachlorobutadiene	<70.4		70.4		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Hexane	<70.4		70.4		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Isopropylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
p-Isopropyltoluene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Methylene Chloride	<141	*	141		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Methyl tert-butyl ether	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Naphthalene	<70.4		70.4		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
N-Propylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Styrene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1,1,2-Tetrachloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B1 7-8
Date Collected: 09/25/14 09:10
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-1
Matrix: Soil
Percent Solids: 86.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Tetrachloroethene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Toluene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2,3-Trichlorobenzene	<70.4		70.4		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2,4-Trichlorobenzene	<70.4		70.4		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1,1-Trichloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,1,2-Trichloroethane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Trichloroethene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Trichlorofluoromethane	<56.3		56.3		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2,3-Trichloropropane	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,2,4-Trimethylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
1,3,5-Trimethylbenzene	<14.1		14.1		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Vinyl chloride	<42.2		42.2		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1
Xylenes, Total	<42.2		42.2		ug/Kg	☼	09/29/14 11:49	09/30/14 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*09/29/14 11:49*	*09/30/14 03:53*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 125*	*09/29/14 11:49*	*09/30/14 03:53*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*09/29/14 11:49*	*09/30/14 03:53*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<9.91		9.91		mg/Kg		09/27/14 00:00	10/01/14 19:02	1
Gasoline	<9.91		9.91		mg/Kg		09/27/14 00:00	10/01/14 19:02	1
Waste Oil	<9.91		9.91		mg/Kg		09/27/14 00:00	10/01/14 19:02	1
Total Extractable Hydrocarbons	<9.91		9.91		mg/Kg		09/27/14 00:00	10/01/14 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*60 - 150*	*09/27/14 00:00*	*10/01/14 19:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<11.2		11.2		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Barium	**50.8**		1.40		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Cadmium	<2.80		2.80		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Chromium	**12.9**		2.80		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Lead	<14.0		14.0		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Selenium	<21.0		21.0		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3
Silver	<2.80		2.80		mg/Kg	☼	09/29/14 09:44	09/30/14 17:24	3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0230		0.0230		mg/Kg	☼	09/26/14 14:52	09/29/14 12:42	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B1 W
Date Collected: 09/25/14 09:45
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-2
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			10/01/14 23:10	1
Benzene	<0.500		0.500		ug/L			10/01/14 23:10	1
Bromobenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Bromochloromethane	<5.00		5.00		ug/L			10/01/14 23:10	1
Bromodichloromethane	<1.00		1.00		ug/L			10/01/14 23:10	1
Bromoform	<5.00		5.00		ug/L			10/01/14 23:10	1
Bromomethane	<4.00		4.00		ug/L			10/01/14 23:10	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/01/14 23:10	1
n-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Carbon disulfide	<1.00		1.00		ug/L			10/01/14 23:10	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/01/14 23:10	1
Chlorobenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/01/14 23:10	1
Chloroethane	<4.00		4.00		ug/L			10/01/14 23:10	1
Chloroform	<1.00		1.00		ug/L			10/01/14 23:10	1
Chloromethane	<3.00		3.00		ug/L			10/01/14 23:10	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:10	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/01/14 23:10	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/01/14 23:10	1
Dibromomethane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/01/14 23:10	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/01/14 23:10	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:10	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:10	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/01/14 23:10	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/01/14 23:10	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:10	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:10	1
Ethylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/01/14 23:10	1
Hexane	<1.00		1.00		ug/L			10/01/14 23:10	1
Isopropylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/01/14 23:10	1
Methylene Chloride	<5.00		5.00		ug/L			10/01/14 23:10	1
Methyl tert-butyl ether	**1.35**		1.00		ug/L			10/01/14 23:10	1
Naphthalene	<5.00		5.00		ug/L			10/01/14 23:10	1
N-Propylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Styrene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1

Client Sample ID: B1 W
Date Collected: 09/25/14 09:45
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-2
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1
Tetrachloroethene	<1.00		1.00		ug/L			10/01/14 23:10	1
Toluene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:10	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:10	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:10	1
Trichloroethene	<1.00		1.00		ug/L			10/01/14 23:10	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/01/14 23:10	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/01/14 23:10	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:10	1
Vinyl chloride	<1.00		1.00		ug/L			10/01/14 23:10	1
Xylenes, Total	<3.00		3.00		ug/L			10/01/14 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*10/01/14 23:10*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*10/01/14 23:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/01/14 23:10*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<221		221		ug/L		09/30/14 00:00	10/02/14 18:59	1
Gasoline	<221		221		ug/L		09/30/14 00:00	10/02/14 18:59	1
Waste Oil	**534**		221		ug/L		09/30/14 00:00	10/02/14 18:59	1
Total Extractable Hydrocarbons	<368		368		ug/L		09/30/14 00:00	10/02/14 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*45 - 140*	*09/30/14 00:00*	*10/02/14 18:59*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0230**		0.00200		mg/L		09/29/14 09:52	09/30/14 13:54	1
Barium	**0.321**		0.00200		mg/L		09/29/14 09:52	09/30/14 13:54	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 13:54	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 13:54	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 13:54	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 13:54	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 13:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:37	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B2 1-2
Date Collected: 09/25/14 10:15
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-3
Matrix: Soil
Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<122		122		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Benzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Bromobenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Bromochloromethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Bromodichloromethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Bromoform	<24.5		24.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Bromomethane	<48.9		48.9		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
2-Butanone (MEK)	<122		122		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
n-Butylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
sec-Butylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
tert-Butylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Carbon disulfide	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Carbon tetrachloride	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Chlorobenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Chlorodibromomethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Chloroethane	<48.9		48.9		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Chloroform	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Chloromethane	<48.9		48.9		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
2-Chlorotoluene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
4-Chlorotoluene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2-Dibromo-3-Chloropropane	<122		122		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2-Dibromoethane (EDB)	<122		122		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Dibromomethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2-Dichlorobenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,3-Dichlorobenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,4-Dichlorobenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Dichlorodifluoromethane	<36.7		36.7		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1-Dichloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2-Dichloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1-Dichloroethene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
cis-1,2-Dichloroethene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
trans-1,2-Dichloroethene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2-Dichloropropane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,3-Dichloropropane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
2,2-Dichloropropane	<48.9		48.9		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1-Dichloropropene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
cis-1,3-Dichloropropene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
trans-1,3-Dichloropropene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Ethylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Hexachlorobutadiene	<61.1		61.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Hexane	<61.1		61.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Isopropylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
p-Isopropyltoluene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Methylene Chloride	<122	*	122		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Methyl tert-butyl ether	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Naphthalene	<61.1		61.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
N-Propylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Styrene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1,1,2-Tetrachloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1

Client Sample ID: B2 1-2
Date Collected: 09/25/14 10:15
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-3
Matrix: Soil
Percent Solids: 89.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Tetrachloroethene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Toluene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2,3-Trichlorobenzene	<61.1		61.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2,4-Trichlorobenzene	<61.1		61.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1,1-Trichloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,1,2-Trichloroethane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Trichloroethene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Trichlorofluoromethane	<48.9		48.9		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2,3-Trichloropropane	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,2,4-Trimethylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
1,3,5-Trimethylbenzene	<12.2		12.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Vinyl chloride	<36.7		36.7		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1
Xylenes, Total	<36.7		36.7		ug/Kg	☼	09/29/14 11:49	09/30/14 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*09/29/14 11:49*	*09/30/14 04:18*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 125*	*09/29/14 11:49*	*09/30/14 04:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*09/29/14 11:49*	*09/30/14 04:18*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<9.99		9.99		mg/Kg		09/27/14 00:00	10/01/14 19:56	1
Gasoline	<9.99		9.99		mg/Kg		09/27/14 00:00	10/01/14 19:56	1
Waste Oil	<9.99		9.99		mg/Kg		09/27/14 00:00	10/01/14 19:56	1
Total Extractable Hydrocarbons	**15.9**	**Z**	9.99		mg/Kg		09/27/14 00:00	10/01/14 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*81*		*60 - 150*	*09/27/14 00:00*	*10/01/14 19:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<9.88		9.88		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Barium	**54.5**		1.23		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Cadmium	<2.47		2.47		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Chromium	**9.26**		2.47		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Lead	<12.3		12.3		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Selenium	<18.5		18.5		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3
Silver	<2.47		2.47		mg/Kg	☼	09/29/14 09:44	09/30/14 17:26	3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0210		0.0210		mg/Kg	☼	09/26/14 14:52	09/29/14 12:44	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B2 W
Date Collected: 09/25/14 15:00
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-4
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	11.8		10.0		ug/L			10/01/14 23:32	1
Benzene	<0.500		0.500		ug/L			10/01/14 23:32	1
Bromobenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Bromochloromethane	<5.00		5.00		ug/L			10/01/14 23:32	1
Bromodichloromethane	<1.00		1.00		ug/L			10/01/14 23:32	1
Bromoform	<5.00		5.00		ug/L			10/01/14 23:32	1
Bromomethane	<4.00		4.00		ug/L			10/01/14 23:32	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/01/14 23:32	1
n-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Carbon disulfide	<1.00		1.00		ug/L			10/01/14 23:32	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/01/14 23:32	1
Chlorobenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/01/14 23:32	1
Chloroethane	<4.00		4.00		ug/L			10/01/14 23:32	1
Chloroform	<1.00		1.00		ug/L			10/01/14 23:32	1
Chloromethane	<3.00		3.00		ug/L			10/01/14 23:32	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:32	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/01/14 23:32	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/01/14 23:32	1
Dibromomethane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/01/14 23:32	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/01/14 23:32	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:32	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:32	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/01/14 23:32	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/01/14 23:32	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:32	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:32	1
Ethylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/01/14 23:32	1
Hexane	<1.00		1.00		ug/L			10/01/14 23:32	1
Isopropylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/01/14 23:32	1
Methylene Chloride	<5.00		5.00		ug/L			10/01/14 23:32	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			10/01/14 23:32	1
Naphthalene	<5.00		5.00		ug/L			10/01/14 23:32	1
N-Propylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Styrene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1

Client Sample ID: B2 W
Date Collected: 09/25/14 15:00
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-4
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1
Tetrachloroethene	<1.00		1.00		ug/L			10/01/14 23:32	1
Toluene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:32	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:32	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:32	1
Trichloroethene	<1.00		1.00		ug/L			10/01/14 23:32	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/01/14 23:32	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/01/14 23:32	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:32	1
Vinyl chloride	<1.00		1.00		ug/L			10/01/14 23:32	1
Xylenes, Total	<3.00		3.00		ug/L			10/01/14 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*10/01/14 23:32*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*10/01/14 23:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/01/14 23:32*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<221		221		ug/L		09/30/14 00:00	10/02/14 19:53	1
Gasoline	<221		221		ug/L		09/30/14 00:00	10/02/14 19:53	1
Waste Oil	<221		221		ug/L		09/30/14 00:00	10/02/14 19:53	1
Total Extractable Hydrocarbons	<368		368		ug/L		09/30/14 00:00	10/02/14 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*95*		*45 - 140*	*09/30/14 00:00*	*10/02/14 19:53*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/29/14 09:52	09/30/14 14:06	1
Barium	**0.162**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:06	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:06	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:06	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:06	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:06	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 14:06	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:39	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B3 3-4
Date Collected: 09/25/14 11:05
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-5
Matrix: Soil
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<121		121		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Benzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Bromobenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Bromochloromethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Bromodichloromethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Bromoform	<24.2		24.2		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Bromomethane	<48.4		48.4		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
2-Butanone (MEK)	<121		121		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
n-Butylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
sec-Butylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
tert-Butylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Carbon disulfide	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Carbon tetrachloride	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Chlorobenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Chlorodibromomethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Chloroethane	<48.4		48.4		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Chloroform	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Chloromethane	<48.4		48.4		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
2-Chlorotoluene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
4-Chlorotoluene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2-Dibromo-3-Chloropropane	<121		121		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2-Dibromoethane (EDB)	<121		121		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Dibromomethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2-Dichlorobenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,3-Dichlorobenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,4-Dichlorobenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Dichlorodifluoromethane	<36.3		36.3		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1-Dichloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2-Dichloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1-Dichloroethene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
cis-1,2-Dichloroethene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
trans-1,2-Dichloroethene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2-Dichloropropane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,3-Dichloropropane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
2,2-Dichloropropane	<48.4		48.4		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1-Dichloropropene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
cis-1,3-Dichloropropene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
trans-1,3-Dichloropropene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Ethylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Hexachlorobutadiene	<60.5		60.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Hexane	<60.5		60.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Isopropylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
p-Isopropyltoluene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Methylene Chloride	<121	*	121		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Methyl tert-butyl ether	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Naphthalene	<60.5		60.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
N-Propylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Styrene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1,1,2-Tetrachloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1

Client Sample ID: B3 3-4
Date Collected: 09/25/14 11:05
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-5
Matrix: Soil
Percent Solids: 86.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Tetrachloroethene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Toluene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2,3-Trichlorobenzene	<60.5		60.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2,4-Trichlorobenzene	<60.5		60.5		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1,1-Trichloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,1,2-Trichloroethane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Trichloroethene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Trichlorofluoromethane	<48.4		48.4		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2,3-Trichloropropane	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,2,4-Trimethylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
1,3,5-Trimethylbenzene	<12.1		12.1		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Vinyl chloride	<36.3		36.3		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1
Xylenes, Total	<36.3		36.3		ug/Kg	☼	09/29/14 11:49	09/30/14 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*09/29/14 11:49*	*09/30/14 04:43*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 125*	*09/29/14 11:49*	*09/30/14 04:43*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*09/29/14 11:49*	*09/30/14 04:43*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 20:51	1
Gasoline	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 20:51	1
Waste Oil	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 20:51	1
Total Extractable Hydrocarbons	**10.7**	**Z**	9.60		mg/Kg		09/27/14 00:00	10/01/14 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*91*		*60 - 150*	*09/27/14 00:00*	*10/01/14 20:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<11.8		11.8		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Barium	**44.5**		1.48		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Cadmium	<2.96		2.96		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Chromium	**10.1**		2.96		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Lead	<14.8		14.8		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Selenium	<22.2		22.2		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3
Silver	<2.96		2.96		mg/Kg	☼	09/29/14 09:44	09/30/14 17:28	3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0207		0.0207		mg/Kg	☼	09/26/14 14:52	09/29/14 12:45	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B3 W
Date Collected: 09/25/14 11:35
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-6
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			10/01/14 23:54	1
Benzene	<0.500		0.500		ug/L			10/01/14 23:54	1
Bromobenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Bromochloromethane	<5.00		5.00		ug/L			10/01/14 23:54	1
Bromodichloromethane	<1.00		1.00		ug/L			10/01/14 23:54	1
Bromoform	<5.00		5.00		ug/L			10/01/14 23:54	1
Bromomethane	<4.00		4.00		ug/L			10/01/14 23:54	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/01/14 23:54	1
n-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Carbon disulfide	<1.00		1.00		ug/L			10/01/14 23:54	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/01/14 23:54	1
Chlorobenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/01/14 23:54	1
Chloroethane	<4.00		4.00		ug/L			10/01/14 23:54	1
Chloroform	<1.00		1.00		ug/L			10/01/14 23:54	1
Chloromethane	<3.00		3.00		ug/L			10/01/14 23:54	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:54	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/01/14 23:54	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/01/14 23:54	1
Dibromomethane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/01/14 23:54	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/01/14 23:54	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:54	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/01/14 23:54	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/01/14 23:54	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/01/14 23:54	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:54	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 23:54	1
Ethylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/01/14 23:54	1
Hexane	<1.00		1.00		ug/L			10/01/14 23:54	1
Isopropylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/01/14 23:54	1
Methylene Chloride	<5.00		5.00		ug/L			10/01/14 23:54	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			10/01/14 23:54	1
Naphthalene	<5.00		5.00		ug/L			10/01/14 23:54	1
N-Propylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Styrene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1

Client Sample ID: B3 W
Date Collected: 09/25/14 11:35
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-6
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1
Tetrachloroethene	<1.00		1.00		ug/L			10/01/14 23:54	1
Toluene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:54	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 23:54	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/01/14 23:54	1
Trichloroethene	<1.00		1.00		ug/L			10/01/14 23:54	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/01/14 23:54	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/01/14 23:54	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 23:54	1
Vinyl chloride	<1.00		1.00		ug/L			10/01/14 23:54	1
Xylenes, Total	<3.00		3.00		ug/L			10/01/14 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*		*10/01/14 23:54*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 120*		*10/01/14 23:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/01/14 23:54*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<221		221		ug/L		09/30/14 00:00	10/02/14 20:47	1
Gasoline	<221		221		ug/L		09/30/14 00:00	10/02/14 20:47	1
Waste Oil	<221		221		ug/L		09/30/14 00:00	10/02/14 20:47	1
Total Extractable Hydrocarbons	<368		368		ug/L		09/30/14 00:00	10/02/14 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*105*		*45 - 140*	*09/30/14 00:00*	*10/02/14 20:47*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/29/14 09:52	09/30/14 14:10	1
Barium	**0.340**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:10	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:10	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:10	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:10	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:10	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 14:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:47	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B4 5-6
Date Collected: 09/25/14 12:40
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-7
Matrix: Soil
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<137		137		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Benzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Bromobenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Bromochloromethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Bromodichloromethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Bromoform	<27.4		27.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Bromomethane	<54.7		54.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
2-Butanone (MEK)	<137		137		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
n-Butylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
sec-Butylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
tert-Butylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Carbon disulfide	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Carbon tetrachloride	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Chlorobenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Chlorodibromomethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Chloroethane	<54.7		54.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Chloroform	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Chloromethane	<54.7		54.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
2-Chlorotoluene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
4-Chlorotoluene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2-Dibromo-3-Chloropropane	<137		137		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2-Dibromoethane (EDB)	<137		137		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Dibromomethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2-Dichlorobenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,3-Dichlorobenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,4-Dichlorobenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Dichlorodifluoromethane	<41.1		41.1		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1-Dichloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2-Dichloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1-Dichloroethene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
cis-1,2-Dichloroethene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
trans-1,2-Dichloroethene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2-Dichloropropane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,3-Dichloropropane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
2,2-Dichloropropane	<54.7		54.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1-Dichloropropene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
cis-1,3-Dichloropropene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
trans-1,3-Dichloropropene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Ethylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Hexachlorobutadiene	<68.4		68.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Hexane	<68.4		68.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Isopropylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
p-Isopropyltoluene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Methylene Chloride	<137	*	137		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Methyl tert-butyl ether	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Naphthalene	<68.4		68.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
N-Propylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Styrene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1,1,2-Tetrachloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B4 5-6
Date Collected: 09/25/14 12:40
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-7
Matrix: Soil
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Tetrachloroethene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Toluene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2,3-Trichlorobenzene	<68.4		68.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2,4-Trichlorobenzene	<68.4		68.4		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1,1-Trichloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,1,2-Trichloroethane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Trichloroethene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Trichlorofluoromethane	<54.7		54.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2,3-Trichloropropane	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,2,4-Trimethylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
1,3,5-Trimethylbenzene	<13.7		13.7		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Vinyl chloride	<41.1		41.1		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1
Xylenes, Total	<41.1		41.1		ug/Kg	☼	09/29/14 11:49	09/30/14 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*09/29/14 11:49*	*09/30/14 05:07*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 125*	*09/29/14 11:49*	*09/30/14 05:07*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*09/29/14 11:49*	*09/30/14 05:07*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<9.71		9.71		mg/Kg		09/27/14 00:00	10/01/14 21:46	1
Gasoline	<9.71		9.71		mg/Kg		09/27/14 00:00	10/01/14 21:46	1
Waste Oil	<9.71		9.71		mg/Kg		09/27/14 00:00	10/01/14 21:46	1
Total Extractable Hydrocarbons	**16.4**	**Z**	9.71		mg/Kg		09/27/14 00:00	10/01/14 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*110*		*60 - 150*	*09/27/14 00:00*	*10/01/14 21:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<11.4		11.4		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Barium	**45.9**		1.42		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Cadmium	<2.84		2.84		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Chromium	**11.2**		2.84		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Lead	<14.2		14.2		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Selenium	<21.3		21.3		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3
Silver	<2.84		2.84		mg/Kg	☼	09/29/14 09:44	09/30/14 17:32	3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0213		0.0213		mg/Kg	☼	09/26/14 14:52	09/29/14 12:47	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B4 W
Date Collected: 09/25/14 13:20
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-8
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			10/02/14 00:15	1
Benzene	<0.500		0.500		ug/L			10/02/14 00:15	1
Bromobenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Bromochloromethane	<5.00		5.00		ug/L			10/02/14 00:15	1
Bromodichloromethane	<1.00		1.00		ug/L			10/02/14 00:15	1
Bromoform	<5.00		5.00		ug/L			10/02/14 00:15	1
Bromomethane	<4.00		4.00		ug/L			10/02/14 00:15	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/02/14 00:15	1
n-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Carbon disulfide	<1.00		1.00		ug/L			10/02/14 00:15	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/02/14 00:15	1
Chlorobenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/02/14 00:15	1
Chloroethane	<4.00		4.00		ug/L			10/02/14 00:15	1
Chloroform	<1.00		1.00		ug/L			10/02/14 00:15	1
Chloromethane	<3.00		3.00		ug/L			10/02/14 00:15	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/02/14 00:15	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/02/14 00:15	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/02/14 00:15	1
Dibromomethane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/02/14 00:15	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/02/14 00:15	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/02/14 00:15	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/02/14 00:15	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/02/14 00:15	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/02/14 00:15	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/02/14 00:15	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/02/14 00:15	1
Ethylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/02/14 00:15	1
Hexane	<1.00		1.00		ug/L			10/02/14 00:15	1
Isopropylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/02/14 00:15	1
Methylene Chloride	<5.00		5.00		ug/L			10/02/14 00:15	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			10/02/14 00:15	1
Naphthalene	<5.00		5.00		ug/L			10/02/14 00:15	1
N-Propylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Styrene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B4 W
Date Collected: 09/25/14 13:20
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-8
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1
Tetrachloroethene	<1.00		1.00		ug/L			10/02/14 00:15	1
Toluene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/02/14 00:15	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/02/14 00:15	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/02/14 00:15	1
Trichloroethene	<1.00		1.00		ug/L			10/02/14 00:15	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/02/14 00:15	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/02/14 00:15	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/02/14 00:15	1
Vinyl chloride	<1.00		1.00		ug/L			10/02/14 00:15	1
Xylenes, Total	<3.00		3.00		ug/L			10/02/14 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*75 - 120*		*10/02/14 00:15*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*10/02/14 00:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/14 00:15*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<221		221		ug/L		09/30/14 00:00	10/02/14 21:41	1
Gasoline	<221		221		ug/L		09/30/14 00:00	10/02/14 21:41	1
Waste Oil	<221		221		ug/L		09/30/14 00:00	10/02/14 21:41	1
Total Extractable Hydrocarbons	<368		368		ug/L		09/30/14 00:00	10/02/14 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*92*		*45 - 140*	*09/30/14 00:00*	*10/02/14 21:41*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00341**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:13	1
Barium	**0.290**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:13	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:13	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:13	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:13	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:13	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 14:13	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:48	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B5 0-1
Date Collected: 09/25/14 13:50
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-9
Matrix: Soil
Percent Solids: 82.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<133		133		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Benzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Bromobenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Bromochloromethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Bromodichloromethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Bromoform	<26.6		26.6		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Bromomethane	<53.2		53.2		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
2-Butanone (MEK)	<133		133		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
n-Butylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
sec-Butylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
tert-Butylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Carbon disulfide	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Carbon tetrachloride	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Chlorobenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Chlorodibromomethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Chloroethane	<53.2		53.2		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Chloroform	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Chloromethane	<53.2		53.2		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
2-Chlorotoluene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
4-Chlorotoluene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2-Dibromo-3-Chloropropane	<133		133		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2-Dibromoethane (EDB)	<133		133		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Dibromomethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2-Dichlorobenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,3-Dichlorobenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,4-Dichlorobenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Dichlorodifluoromethane	<39.9		39.9		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1-Dichloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2-Dichloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1-Dichloroethene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
cis-1,2-Dichloroethene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
trans-1,2-Dichloroethene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2-Dichloropropane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,3-Dichloropropane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
2,2-Dichloropropane	<53.2		53.2		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1-Dichloropropene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
cis-1,3-Dichloropropene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
trans-1,3-Dichloropropene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Ethylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Hexachlorobutadiene	<66.5		66.5		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Hexane	<66.5		66.5		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Isopropylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
p-Isopropyltoluene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Methylene Chloride	<133	*	133		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Methyl tert-butyl ether	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Naphthalene	<66.5		66.5		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
N-Propylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Styrene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1,1,2-Tetrachloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B5 0-1
Date Collected: 09/25/14 13:50
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-9
Matrix: Soil
Percent Solids: 82.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Tetrachloroethene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Toluene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2,3-Trichlorobenzene	<66.5		66.5		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2,4-Trichlorobenzene	<66.5		66.5		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1,1-Trichloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,1,2-Trichloroethane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Trichloroethene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Trichlorofluoromethane	<53.2		53.2		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2,3-Trichloropropane	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,2,4-Trimethylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
1,3,5-Trimethylbenzene	<13.3		13.3		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Vinyl chloride	<39.9		39.9		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1
Xylenes, Total	<39.9		39.9		ug/Kg	☼	09/29/14 11:49	09/30/14 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*09/29/14 11:49*	*09/30/14 05:32*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 125*	*09/29/14 11:49*	*09/30/14 05:32*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*09/29/14 11:49*	*09/30/14 05:32*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 22:40	1
Gasoline	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 22:40	1
Waste Oil	**117**		9.60		mg/Kg		09/27/14 00:00	10/01/14 22:40	1
Total Extractable Hydrocarbons	<9.60		9.60		mg/Kg		09/27/14 00:00	10/01/14 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*85*		*60 - 150*	*09/27/14 00:00*	*10/01/14 22:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<10.4		10.4		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Barium	**66.2**		1.30		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Cadmium	**7.85**		2.60		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Chromium	**13.3**		2.60		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Lead	<13.0		13.0		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Selenium	<19.5		19.5		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3
Silver	<2.60		2.60		mg/Kg	☼	09/29/14 09:44	09/30/14 17:40	3

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0225		0.0225		mg/Kg	☼	09/26/14 14:52	09/29/14 12:48	1

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Client Sample ID: B5 W
Date Collected: 09/25/14 14:25
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-10
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			10/02/14 00:58	1
Benzene	<0.500		0.500		ug/L			10/02/14 00:58	1
Bromobenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Bromochloromethane	<5.00		5.00		ug/L			10/02/14 00:58	1
Bromodichloromethane	<1.00		1.00		ug/L			10/02/14 00:58	1
Bromoform	<5.00		5.00		ug/L			10/02/14 00:58	1
Bromomethane	<4.00		4.00		ug/L			10/02/14 00:58	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/02/14 00:58	1
n-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Carbon disulfide	<1.00		1.00		ug/L			10/02/14 00:58	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/02/14 00:58	1
Chlorobenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/02/14 00:58	1
Chloroethane	<4.00		4.00		ug/L			10/02/14 00:58	1
Chloroform	<1.00		1.00		ug/L			10/02/14 00:58	1
Chloromethane	<3.00		3.00		ug/L			10/02/14 00:58	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/02/14 00:58	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/02/14 00:58	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/02/14 00:58	1
Dibromomethane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/02/14 00:58	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/02/14 00:58	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/02/14 00:58	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/02/14 00:58	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/02/14 00:58	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/02/14 00:58	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/02/14 00:58	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/02/14 00:58	1
Ethylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/02/14 00:58	1
Hexane	<1.00		1.00		ug/L			10/02/14 00:58	1
Isopropylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/02/14 00:58	1
Methylene Chloride	<5.00		5.00		ug/L			10/02/14 00:58	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			10/02/14 00:58	1
Naphthalene	**5.14**		5.00		ug/L			10/02/14 00:58	1
N-Propylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Styrene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1

Client Sample ID: B5 W
Date Collected: 09/25/14 14:25
Date Received: 09/26/14 08:45

Lab Sample ID: 310-40044-10
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1
Tetrachloroethene	<1.00		1.00		ug/L			10/02/14 00:58	1
Toluene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/02/14 00:58	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/02/14 00:58	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/02/14 00:58	1
Trichloroethene	<1.00		1.00		ug/L			10/02/14 00:58	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/02/14 00:58	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/02/14 00:58	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/02/14 00:58	1
Vinyl chloride	<1.00		1.00		ug/L			10/02/14 00:58	1
Xylenes, Total	<3.00		3.00		ug/L			10/02/14 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*		*10/02/14 00:58*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 120*		*10/02/14 00:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/14 00:58*	*1*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<221		221		ug/L		09/30/14 00:00	10/02/14 22:34	1
Gasoline	<221		221		ug/L		09/30/14 00:00	10/02/14 22:34	1
Waste Oil	<221		221		ug/L		09/30/14 00:00	10/02/14 22:34	1
Total Extractable Hydrocarbons	<368		368		ug/L		09/30/14 00:00	10/02/14 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 140*	*09/30/14 00:00*	*10/02/14 22:34*	*1*

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0127**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:17	1
Barium	**0.361**		0.00200		mg/L		09/29/14 09:52	09/30/14 14:17	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:17	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:17	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 14:17	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 14:17	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 14:17	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:50	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
Z	The chromatographic response does not resemble a typical fuel pattern.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-120)	(75-120)	(80-120)
310-40044-2	B1 W	103	94	101
310-40044-4	B2 W	101	94	99
310-40044-6	B3 W	99	94	101
310-40044-8	B4 W	105	95	101
310-40044-10	B5 W	100	92	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Soil — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(75-125)	(80-120)
310-40044-1	B1 7-8	101	97	95
310-40044-3	B2 1-2	101	99	97
310-40044-5	B3 3-4	100	98	95
310-40044-7	B4 5-6	100	98	96
310-40044-9	B5 0-1	102	96	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(75-125)	(80-120)
LCS 310-62528/2-A	Lab Control Sample	101	106	97
MB 310-62528/1-A	Method Blank	100	98	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-120)	(75-120)	(80-120)
LCS 310-62912/7	Lab Control Sample	96	98	100
LCSD 310-62912/8	Lab Control Sample Dup	96	100	99

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-120)	(75-120)	(80-120)
MB 310-62912/6	Method Blank	103	92	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTC
Lab Sample ID	Client Sample ID	(45-140)
310-40044-2	B1 W	91
310-40044-4	B2 W	95
310-40044-6	B3 W	105
310-40044-8	B4 W	92
310-40044-10	B5 W	82

Surrogate Legend

OTC = n-Octacosane

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Soil — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTC
Lab Sample ID	Client Sample ID	(60-150)
310-40044-1	B1 7-8	92
310-40044-3	B2 1-2	81
310-40044-5	B3 3-4	91
310-40044-7	B4 5-6	110
310-40044-9	B5 0-1	85

Surrogate Legend

OTC = n-Octacosane

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTC
Lab Sample ID	Client Sample ID	(60-150)
LCS 310-62327/2-A	Lab Control Sample	100
MB 310-62327/1-A	Method Blank	142

Surrogate Legend

OTC = n-Octacosane

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		OTC							
Lab Sample ID	Client Sample ID	(45-140)							
LCS 310-62553/2-A	Lab Control Sample	0.7 X							
LCSD 310-62553/3-A	Lab Control Sample Dup	0.7 X							
MB 310-62553/1-A	Method Blank	82							

Surrogate Legend

OTC = n-Octacosane

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-62528/1-A
Matrix: Solid
Analysis Batch: 62530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<116		116		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Benzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Bromobenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Bromochloromethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Bromodichloromethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Bromoform	<23.1		23.1		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Bromomethane	<46.2		46.2		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
2-Butanone (MEK)	<116		116		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
n-Butylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
sec-Butylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
tert-Butylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Carbon disulfide	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Carbon tetrachloride	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Chlorobenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Chlorodibromomethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Chloroethane	<46.2		46.2		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Chloroform	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Chloromethane	<46.2		46.2		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
2-Chlorotoluene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
4-Chlorotoluene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2-Dibromo-3-Chloropropane	<116		116		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2-Dibromoethane (EDB)	<116		116		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Dibromomethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2-Dichlorobenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,3-Dichlorobenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,4-Dichlorobenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Dichlorodifluoromethane	<34.7		34.7		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1-Dichloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2-Dichloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1-Dichloroethene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
cis-1,2-Dichloroethene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
trans-1,2-Dichloroethene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2-Dichloropropane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,3-Dichloropropane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
2,2-Dichloropropane	<46.2		46.2		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1-Dichloropropene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
cis-1,3-Dichloropropene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
trans-1,3-Dichloropropene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Ethylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Hexachlorobutadiene	<57.8		57.8		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Hexane	<57.8		57.8		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Isopropylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
p-Isopropyltoluene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Methylene Chloride	<116		116		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Methyl tert-butyl ether	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Naphthalene	<57.8		57.8		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
N-Propylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Styrene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-62528/1-A
Matrix: Solid
Analysis Batch: 62530

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1,2,2-Tetrachloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Tetrachloroethene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Toluene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2,3-Trichlorobenzene	<57.8		57.8		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2,4-Trichlorobenzene	<57.8		57.8		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1,1-Trichloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,1,2-Trichloroethane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Trichloroethene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Trichlorofluoromethane	<46.2		46.2		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2,3-Trichloropropane	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,2,4-Trimethylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
1,3,5-Trimethylbenzene	<11.6		11.6		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Vinyl chloride	<34.7		34.7		ug/Kg		09/29/14 11:49	09/30/14 00:59	1
Xylenes, Total	<34.7		34.7		ug/Kg		09/29/14 11:49	09/30/14 00:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*09/29/14 11:49*	*09/30/14 00:59*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 125*	*09/29/14 11:49*	*09/30/14 00:59*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*09/29/14 11:49*	*09/30/14 00:59*	*1*

Lab Sample ID: LCS 310-62528/2-A
Matrix: Solid
Analysis Batch: 62530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	78.2	78.30	J	ug/Kg		100	65 - 150
Benzene	39.1	42.25		ug/Kg		108	55 - 135
Bromobenzene	39.1	37.74		ug/Kg		96	65 - 125
Bromochloromethane	39.1	44.13		ug/Kg		113	65 - 130
Bromodichloromethane	39.1	40.08		ug/Kg		102	65 - 130
Bromoform	39.1	38.22		ug/Kg		98	50 - 135
Bromomethane	39.1	42.95		ug/Kg		110	45 - 135
2-Butanone (MEK)	78.2	77.04	J	ug/Kg		98	50 - 145
n-Butylbenzene	39.1	28.02		ug/Kg		72	55 - 130
sec-Butylbenzene	39.1	33.48		ug/Kg		86	60 - 125
tert-Butylbenzene	39.1	33.52		ug/Kg		86	55 - 125
Carbon disulfide	39.1	40.31		ug/Kg		103	40 - 135
Carbon tetrachloride	39.1	42.92		ug/Kg		110	55 - 130
Chlorobenzene	39.1	37.45		ug/Kg		96	60 - 120
Chlorodibromomethane	39.1	39.30		ug/Kg		100	55 - 130
Chloroethane	39.1	44.69		ug/Kg		114	50 - 145
Chloroform	39.1	43.72		ug/Kg		112	65 - 130
Chloromethane	39.1	41.92		ug/Kg		107	40 - 135
2-Chlorotoluene	39.1	35.56		ug/Kg		91	60 - 125
4-Chlorotoluene	39.1	33.62		ug/Kg		86	60 - 125
1,2-Dibromo-3-Chloropropane	39.1	33.92	J	ug/Kg		87	50 - 140
1,2-Dibromoethane (EDB)	39.1	37.26	J	ug/Kg		95	55 - 140

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-62528/2-A
Matrix: Solid
Analysis Batch: 62530

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	39.1	42.31		ug/Kg		108	65 - 135
1,2-Dichlorobenzene	39.1	34.19		ug/Kg		87	65 - 120
1,3-Dichlorobenzene	39.1	32.11		ug/Kg		82	60 - 125
1,4-Dichlorobenzene	39.1	31.15		ug/Kg		80	60 - 125
Dichlorodifluoromethane	39.1	42.68		ug/Kg		109	40 - 135
1,1-Dichloroethane	39.1	43.85		ug/Kg		112	55 - 135
1,2-Dichloroethane	39.1	41.55		ug/Kg		106	60 - 140
1,1-Dichloroethene	39.1	42.36		ug/Kg		108	50 - 145
cis-1,2-Dichloroethene	39.1	43.80		ug/Kg		112	60 - 135
trans-1,2-Dichloroethene	39.1	42.42		ug/Kg		108	55 - 135
1,2-Dichloropropane	39.1	43.02		ug/Kg		110	55 - 130
1,3-Dichloropropane	39.1	41.16		ug/Kg		105	55 - 140
2,2-Dichloropropane	39.1	41.84		ug/Kg		107	40 - 135
1,1-Dichloropropene	39.1	41.09		ug/Kg		105	55 - 130
cis-1,3-Dichloropropene	39.1	37.50		ug/Kg		96	50 - 115
trans-1,3-Dichloropropene	39.1	37.51		ug/Kg		96	55 - 130
Ethylbenzene	39.1	37.35		ug/Kg		95	60 - 125
Hexachlorobutadiene	39.1	28.86	J	ug/Kg		74	40 - 135
Hexane	39.1	35.03	J	ug/Kg		90	45 - 140
Isopropylbenzene	39.1	36.09		ug/Kg		92	60 - 125
p-Isopropyltoluene	39.1	30.54		ug/Kg		78	60 - 120
Methylene Chloride	39.1	67.41	J *	ug/Kg		172	55 - 145
Methyl tert-butyl ether	39.1	41.32		ug/Kg		106	55 - 130
Naphthalene	39.1	32.22	J	ug/Kg		82	50 - 130
N-Propylbenzene	39.1	33.56		ug/Kg		86	50 - 125
Styrene	39.1	36.12		ug/Kg		92	60 - 125
1,1,1,2-Tetrachloroethane	39.1	40.83		ug/Kg		104	65 - 125
1,1,2,2-Tetrachloroethane	39.1	36.75		ug/Kg		94	60 - 125
Tetrachloroethene	39.1	43.42		ug/Kg		111	55 - 125
Toluene	39.1	37.15		ug/Kg		95	60 - 130
1,2,3-Trichlorobenzene	39.1	28.66	J	ug/Kg		73	50 - 130
1,2,4-Trichlorobenzene	39.1	25.59	J	ug/Kg		65	45 - 135
1,1,1-Trichloroethane	39.1	42.98		ug/Kg		110	60 - 125
1,1,2-Trichloroethane	39.1	39.85		ug/Kg		102	55 - 135
Trichloroethene	39.1	43.34		ug/Kg		111	60 - 130
Trichlorofluoromethane	39.1	40.09		ug/Kg		102	50 - 145
1,2,3-Trichloropropane	39.1	38.34		ug/Kg		98	50 - 145
1,2,4-Trimethylbenzene	39.1	33.94		ug/Kg		87	55 - 125
1,3,5-Trimethylbenzene	39.1	33.38		ug/Kg		85	50 - 130
Vinyl chloride	39.1	39.61		ug/Kg		101	45 - 140
Xylenes, Total	78.2	74.36		ug/Kg		95	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*75 - 125*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-62912/6
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			10/01/14 17:04	1
Benzene	<0.500		0.500		ug/L			10/01/14 17:04	1
Bromobenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Bromochloromethane	<5.00		5.00		ug/L			10/01/14 17:04	1
Bromodichloromethane	<1.00		1.00		ug/L			10/01/14 17:04	1
Bromoform	<5.00		5.00		ug/L			10/01/14 17:04	1
Bromomethane	<4.00		4.00		ug/L			10/01/14 17:04	1
2-Butanone (MEK)	<10.0		10.0		ug/L			10/01/14 17:04	1
n-Butylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
sec-Butylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
tert-Butylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Carbon disulfide	<1.00		1.00		ug/L			10/01/14 17:04	1
Carbon tetrachloride	<2.00		2.00		ug/L			10/01/14 17:04	1
Chlorobenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/01/14 17:04	1
Chloroethane	<4.00		4.00		ug/L			10/01/14 17:04	1
Chloroform	<1.00		1.00		ug/L			10/01/14 17:04	1
Chloromethane	<3.00		3.00		ug/L			10/01/14 17:04	1
2-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 17:04	1
4-Chlorotoluene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2-Dibromo-3-Chloropropane	<10.0		10.0		ug/L			10/01/14 17:04	1
1,2-Dibromoethane (EDB)	<10.0		10.0		ug/L			10/01/14 17:04	1
Dibromomethane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			10/01/14 17:04	1
1,1-Dichloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,1-Dichloroethene	<2.00		2.00		ug/L			10/01/14 17:04	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 17:04	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,3-Dichloropropane	<1.00		1.00		ug/L			10/01/14 17:04	1
2,2-Dichloropropane	<4.00		4.00		ug/L			10/01/14 17:04	1
1,1-Dichloropropene	<1.00		1.00		ug/L			10/01/14 17:04	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 17:04	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			10/01/14 17:04	1
Ethylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Hexachlorobutadiene	<5.00		5.00		ug/L			10/01/14 17:04	1
Hexane	<1.00		1.00		ug/L			10/01/14 17:04	1
Isopropylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
p-Isopropyltoluene	<1.00		1.00		ug/L			10/01/14 17:04	1
Methylene Chloride	<5.00		5.00		ug/L			10/01/14 17:04	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			10/01/14 17:04	1
Naphthalene	<5.00		5.00		ug/L			10/01/14 17:04	1
N-Propylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Styrene	<1.00		1.00		ug/L			10/01/14 17:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-62912/6
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
Tetrachloroethene	<1.00		1.00		ug/L			10/01/14 17:04	1
Toluene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 17:04	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			10/01/14 17:04	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			10/01/14 17:04	1
Trichloroethene	<1.00		1.00		ug/L			10/01/14 17:04	1
Trichlorofluoromethane	<4.00		4.00		ug/L			10/01/14 17:04	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			10/01/14 17:04	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			10/01/14 17:04	1
Vinyl chloride	<1.00		1.00		ug/L			10/01/14 17:04	1
Xylenes, Total	<3.00		3.00		ug/L			10/01/14 17:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*10/01/14 17:04*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 120*		*10/01/14 17:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/01/14 17:04*	*1*

Lab Sample ID: LCS 310-62912/7
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	40.30		ug/L		101	60 - 150
Benzene	20.0	18.84		ug/L		94	70 - 130
Bromobenzene	20.0	18.93		ug/L		95	75 - 130
Bromochloromethane	20.0	18.13		ug/L		91	65 - 145
Bromodichloromethane	20.0	18.87		ug/L		94	60 - 130
Bromoform	20.0	18.82		ug/L		94	30 - 125
Bromomethane	20.0	15.69		ug/L		78	35 - 130
2-Butanone (MEK)	40.0	45.06		ug/L		113	55 - 140
n-Butylbenzene	20.0	20.12		ug/L		101	55 - 135
sec-Butylbenzene	20.0	18.99		ug/L		95	65 - 135
tert-Butylbenzene	20.0	18.79		ug/L		94	60 - 135
Carbon disulfide	20.0	21.11		ug/L		106	40 - 130
Carbon tetrachloride	20.0	17.92		ug/L		90	55 - 130
Chlorobenzene	20.0	19.01		ug/L		95	75 - 125
Chlorodibromomethane	20.0	18.76		ug/L		94	45 - 125
Chloroethane	20.0	17.45		ug/L		87	55 - 135
Chloroform	20.0	18.66		ug/L		93	70 - 125
Chloromethane	20.0	19.06		ug/L		95	30 - 125
2-Chlorotoluene	20.0	19.73		ug/L		99	75 - 135
4-Chlorotoluene	20.0	19.94		ug/L		100	70 - 140
1,2-Dibromo-3-Chloropropane	20.0	21.87		ug/L		109	35 - 130
1,2-Dibromoethane (EDB)	20.0	20.00		ug/L		100	70 - 135

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-62912/7
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	20.0	18.61		ug/L		93	75 - 130
1,2-Dichlorobenzene	20.0	20.11		ug/L		101	65 - 135
1,3-Dichlorobenzene	20.0	19.37		ug/L		97	70 - 130
1,4-Dichlorobenzene	20.0	19.40		ug/L		97	60 - 140
Dichlorodifluoromethane	20.0	17.61		ug/L		88	35 - 130
1,1-Dichloroethane	20.0	19.25		ug/L		96	60 - 130
1,2-Dichloroethane	20.0	19.23		ug/L		96	65 - 140
1,1-Dichloroethene	20.0	16.34		ug/L		82	60 - 135
cis-1,2-Dichloroethene	20.0	18.91		ug/L		95	70 - 135
trans-1,2-Dichloroethene	20.0	18.10		ug/L		91	60 - 145
1,2-Dichloropropane	20.0	19.04		ug/L		95	65 - 130
1,3-Dichloropropane	20.0	20.42		ug/L		102	75 - 125
2,2-Dichloropropane	20.0	19.53		ug/L		98	25 - 120
1,1-Dichloropropene	20.0	18.40		ug/L		92	60 - 140
cis-1,3-Dichloropropene	20.0	21.09		ug/L		105	30 - 120
trans-1,3-Dichloropropene	20.0	19.44		ug/L		97	35 - 120
Ethylbenzene	20.0	19.03		ug/L		95	70 - 130
Hexachlorobutadiene	20.0	19.62		ug/L		98	60 - 135
Hexane	20.0	19.05		ug/L		95	40 - 135
Isopropylbenzene	20.0	19.00		ug/L		95	70 - 125
p-Isopropyltoluene	20.0	18.78		ug/L		94	60 - 140
Methylene Chloride	20.0	19.16		ug/L		96	55 - 145
Methyl tert-butyl ether	20.0	19.81		ug/L		99	50 - 135
Naphthalene	20.0	20.95		ug/L		105	40 - 135
N-Propylbenzene	20.0	19.72		ug/L		99	70 - 135
Styrene	20.0	19.36		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.30		ug/L		96	65 - 120
1,1,2,2-Tetrachloroethane	20.0	22.90		ug/L		114	65 - 130
Tetrachloroethene	20.0	17.01		ug/L		85	70 - 135
Toluene	20.0	18.37		ug/L		92	70 - 135
1,2,3-Trichlorobenzene	20.0	20.77		ug/L		104	55 - 130
1,2,4-Trichlorobenzene	20.0	20.60		ug/L		103	40 - 135
1,1,1-Trichloroethane	20.0	18.16		ug/L		91	60 - 125
1,1,2-Trichloroethane	20.0	20.27		ug/L		101	75 - 125
Trichloroethene	20.0	18.49		ug/L		92	70 - 130
Trichlorofluoromethane	20.0	16.89		ug/L		84	55 - 145
1,2,3-Trichloropropane	20.0	22.21		ug/L		111	60 - 150
1,2,4-Trimethylbenzene	20.0	19.24		ug/L		96	70 - 140
1,3,5-Trimethylbenzene	20.0	18.76		ug/L		94	70 - 140
Vinyl chloride	20.0	17.85		ug/L		89	45 - 135
Xylenes, Total	40.0	37.88		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-62912/8
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	40.0	36.89		ug/L		92	60 - 150	9	20
Benzene	20.0	16.83		ug/L		84	70 - 130	11	25
Bromobenzene	20.0	17.51		ug/L		88	75 - 130	8	20
Bromochloromethane	20.0	16.86		ug/L		84	65 - 145	7	10
Bromodichloromethane	20.0	17.32		ug/L		87	60 - 130	9	15
Bromoform	20.0	17.81		ug/L		89	30 - 125	6	25
Bromomethane	20.0	14.08		ug/L		70	35 - 130	11	35
2-Butanone (MEK)	40.0	41.69		ug/L		104	55 - 140	8	25
n-Butylbenzene	20.0	18.17		ug/L		91	55 - 135	10	10
sec-Butylbenzene	20.0	17.33		ug/L		87	65 - 135	9	15
tert-Butylbenzene	20.0	17.31		ug/L		87	60 - 135	8	10
Carbon disulfide	20.0	19.93		ug/L		100	40 - 130	6	20
Carbon tetrachloride	20.0	15.98		ug/L		80	55 - 130	11	25
Chlorobenzene	20.0	17.37		ug/L		87	75 - 125	9	15
Chlorodibromomethane	20.0	17.71		ug/L		89	45 - 125	6	20
Chloroethane	20.0	15.32		ug/L		77	55 - 135	13	20
Chloroform	20.0	16.57		ug/L		83	70 - 125	12	15
Chloromethane	20.0	16.72		ug/L		84	30 - 125	13	25
2-Chlorotoluene	20.0	17.68		ug/L		88	75 - 135	11	15
4-Chlorotoluene	20.0	17.69		ug/L		88	70 - 140	12	20
1,2-Dibromo-3-Chloropropane	20.0	20.20		ug/L		101	35 - 130	8	25
1,2-Dibromoethane (EDB)	20.0	18.56		ug/L		93	70 - 135	7	25
Dibromomethane	20.0	17.21		ug/L		86	75 - 130	8	30
1,2-Dichlorobenzene	20.0	18.93		ug/L		95	65 - 135	6	10
1,3-Dichlorobenzene	20.0	18.14		ug/L		91	70 - 130	7	10
1,4-Dichlorobenzene	20.0	17.68		ug/L		88	60 - 140	9	10
Dichlorodifluoromethane	20.0	14.94		ug/L		75	35 - 130	16	25
1,1-Dichloroethane	20.0	17.09		ug/L		85	60 - 130	12	15
1,2-Dichloroethane	20.0	17.43		ug/L		87	65 - 140	10	15
1,1-Dichloroethene	20.0	14.51		ug/L		73	60 - 135	12	20
cis-1,2-Dichloroethene	20.0	16.36		ug/L		82	70 - 135	14	15
trans-1,2-Dichloroethene	20.0	16.31		ug/L		82	60 - 145	10	15
1,2-Dichloropropane	20.0	17.49		ug/L		87	65 - 130	8	15
1,3-Dichloropropane	20.0	18.55		ug/L		93	75 - 125	10	15
2,2-Dichloropropane	20.0	17.20		ug/L		86	25 - 120	13	35
1,1-Dichloropropene	20.0	16.44		ug/L		82	60 - 140	11	20
cis-1,3-Dichloropropene	20.0	19.08		ug/L		95	30 - 120	10	20
trans-1,3-Dichloropropene	20.0	18.51		ug/L		93	35 - 120	5	15
Ethylbenzene	20.0	17.25		ug/L		86	70 - 130	10	35
Hexachlorobutadiene	20.0	18.35		ug/L		92	60 - 135	7	15
Hexane	20.0	16.24		ug/L		81	40 - 135	16	35
Isopropylbenzene	20.0	16.81		ug/L		84	70 - 125	12	15
p-Isopropyltoluene	20.0	17.50		ug/L		88	60 - 140	7	10
Methylene Chloride	20.0	16.88		ug/L		84	55 - 145	13	20
Methyl tert-butyl ether	20.0	18.16		ug/L		91	50 - 135	9	30
Naphthalene	20.0	21.18		ug/L		106	40 - 135	1	35
N-Propylbenzene	20.0	17.66		ug/L		88	70 - 135	11	20
Styrene	20.0	17.23		ug/L		86	70 - 130	12	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 310-62912/8
Matrix: Water
Analysis Batch: 62912

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	18.12		ug/L		91	65 - 120	6	15
1,1,2,2-Tetrachloroethane			20.0	21.27		ug/L		106	65 - 130	7	20
Tetrachloroethene			20.0	15.19		ug/L		76	70 - 135	11	15
Toluene			20.0	16.78		ug/L		84	70 - 135	9	30
1,2,3-Trichlorobenzene			20.0	20.15		ug/L		101	55 - 130	3	15
1,2,4-Trichlorobenzene			20.0	19.07		ug/L		95	40 - 135	8	15
1,1,1-Trichloroethane			20.0	16.28		ug/L		81	60 - 125	11	15
1,1,2-Trichloroethane			20.0	18.90		ug/L		94	75 - 125	7	15
Trichloroethene			20.0	16.46		ug/L		82	70 - 130	12	20
Trichlorofluoromethane			20.0	14.91		ug/L		75	55 - 145	12	20
1,2,3-Trichloropropane			20.0	20.13		ug/L		101	60 - 150	10	20
1,2,4-Trimethylbenzene			20.0	17.97		ug/L		90	70 - 140	7	15
1,3,5-Trimethylbenzene			20.0	17.55		ug/L		88	70 - 140	7	15
Vinyl chloride			20.0	15.69		ug/L		78	45 - 135	13	20
Xylenes, Total			40.0	33.76		ug/L		84	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*75 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-62327/1-A
Matrix: Solid
Analysis Batch: 62631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<10.0		10.0		mg/Kg		09/27/14 00:00	09/30/14 19:12	1
Gasoline	<10.0		10.0		mg/Kg		09/27/14 00:00	09/30/14 19:12	1
Waste Oil	<10.0		10.0		mg/Kg		09/27/14 00:00	09/30/14 19:12	1
Total Extractable Hydrocarbons	<10.0		10.0		mg/Kg		09/27/14 00:00	09/30/14 19:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*142*		*60 - 150*	*09/27/14 00:00*	*09/30/14 19:12*	*1*

Lab Sample ID: LCS 310-62327/2-A
Matrix: Solid
Analysis Batch: 62631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62327

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel			133	68.85		mg/Kg		52	45 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*100*		*60 - 150*

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 310-62553/1-A
Matrix: Water
Analysis Batch: 62816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel	<300		300		ug/L		09/30/14 00:00	10/01/14 16:17	1
Gasoline	<300		300		ug/L		09/30/14 00:00	10/01/14 16:17	1
Waste Oil	<300		300		ug/L		09/30/14 00:00	10/01/14 16:17	1
Total Extractable Hydrocarbons	<500		500		ug/L		09/30/14 00:00	10/01/14 16:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*82*		*45 - 140*	*09/30/14 00:00*	*10/01/14 16:17*	*1*

Lab Sample ID: LCS 310-62553/2-A
Matrix: Water
Analysis Batch: 62816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62553

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel			2000	865.2		ug/L		43	35 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*0.7*	*X*	*45 - 140*

Lab Sample ID: LCSD 310-62553/3-A
Matrix: Water
Analysis Batch: 62816

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62553

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel			2000	881.9		ug/L		44	35 - 125	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*0.7*	*X*	*45 - 140*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-62473/1-A
Matrix: Solid
Analysis Batch: 62754

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<3.11		3.11		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Barium	<0.389		0.389		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Cadmium	<0.778		0.778		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Chromium	<0.778		0.778		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Lead	<3.89		3.89		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Selenium	<5.84		5.84		mg/Kg		09/29/14 09:44	09/30/14 14:50	1
Silver	<0.778		0.778		mg/Kg		09/29/14 09:44	09/30/14 14:50	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-62473/2-A
Matrix: Solid
Analysis Batch: 62754

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	170	182.7		mg/Kg		107	80 - 115
Barium	85.0	86.54		mg/Kg		102	80 - 110
Cadmium	85.0	91.65		mg/Kg		108	80 - 115
Chromium	85.0	89.23		mg/Kg		105	85 - 110
Lead	170	173.7		mg/Kg		102	80 - 115
Selenium	340	366.4		mg/Kg		108	85 - 110
Silver	85.0	93.57		mg/Kg		110	80 - 120

Lab Sample ID: 310-40044-7 MS
Matrix: Soil
Analysis Batch: 62787

Client Sample ID: B4 5-6
Prep Type: Total/NA
Prep Batch: 62473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<11.4		191	175.7		mg/Kg	☼	92	75 - 125
Barium	45.9		95.6	133.9		mg/Kg	☼	92	75 - 125
Cadmium	<2.84		95.6	93.76		mg/Kg	☼	98	75 - 125
Chromium	11.2		95.6	98.86		mg/Kg	☼	92	75 - 120
Lead	<14.2		191	174.6		mg/Kg	☼	91	75 - 125
Selenium	<21.3		382	360.5		mg/Kg	☼	94	75 - 115
Silver	<2.84		95.6	90.45		mg/Kg	☼	95	75 - 110

Lab Sample ID: 310-40044-5 DU
Matrix: Soil
Analysis Batch: 62787

Client Sample ID: B3 3-4
Prep Type: Total/NA
Prep Batch: 62473

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	<11.8		<12.3		mg/Kg	☼	NC	15
Barium	44.5		45.24		mg/Kg	☼	2	20
Cadmium	<2.96		<3.07		mg/Kg	☼	NC	20
Chromium	10.1		10.08		mg/Kg	☼	0.4	20
Lead	<14.8		<15.3		mg/Kg	☼	NC	20
Selenium	<22.2		<23.0		mg/Kg	☼	NC	20
Silver	<2.96		<3.07		mg/Kg	☼	NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-62479/1-A
Matrix: Water
Analysis Batch: 62722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200		mg/L		09/29/14 09:52	09/30/14 13:47	1
Barium	<0.00200		0.00200		mg/L		09/29/14 09:52	09/30/14 13:47	1
Cadmium	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 13:47	1
Chromium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 13:47	1
Lead	<0.000500		0.000500		mg/L		09/29/14 09:52	09/30/14 13:47	1
Selenium	<0.00500		0.00500		mg/L		09/29/14 09:52	09/30/14 13:47	1
Silver	<0.00100		0.00100		mg/L		09/29/14 09:52	09/30/14 13:47	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-62479/2-A
Matrix: Water
Analysis Batch: 62722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0400	0.03622		mg/L		91	85 - 115
Barium	0.0400	0.04263		mg/L		107	85 - 115
Cadmium	0.0200	0.02010		mg/L		100	85 - 115
Chromium	0.0400	0.04042		mg/L		101	85 - 115
Lead	0.0200	0.02027		mg/L		101	85 - 115
Selenium	0.0400	0.03960		mg/L		99	85 - 115
Silver	0.0200	0.02059		mg/L		103	85 - 115

Lab Sample ID: 310-40044-2 MS
Matrix: Ground Water
Analysis Batch: 62722

Client Sample ID: B1 W
Prep Type: Dissolved
Prep Batch: 62479

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0230		0.0400	0.05891		mg/L		90	75 - 125
Barium	0.321		0.0400	0.3827	4	mg/L		154	75 - 125
Cadmium	<0.000500		0.0200	0.01954		mg/L		98	75 - 125
Chromium	<0.00500		0.0400	0.03886		mg/L		97	75 - 125
Lead	<0.000500		0.0200	0.01992		mg/L		100	75 - 125
Selenium	<0.00500		0.0400	0.03809		mg/L		95	75 - 125
Silver	<0.00100		0.0200	0.01905		mg/L		95	75 - 125

Lab Sample ID: 310-40044-2 MSD
Matrix: Ground Water
Analysis Batch: 62722

Client Sample ID: B1 W
Prep Type: Dissolved
Prep Batch: 62479

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0230		0.0400	0.05840		mg/L		88	75 - 125	1	20
Barium	0.321		0.0400	0.3748	4	mg/L		134	75 - 125	2	20
Cadmium	<0.000500		0.0200	0.01928		mg/L		96	75 - 125	1	20
Chromium	<0.00500		0.0400	0.03878		mg/L		97	75 - 125	0	20
Lead	<0.000500		0.0200	0.01995		mg/L		100	75 - 125	0	20
Selenium	<0.00500		0.0400	0.03860		mg/L		97	75 - 125	1	20
Silver	<0.00100		0.0200	0.01923		mg/L		96	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-62588/1-A
Matrix: Water
Analysis Batch: 62793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200		mg/L		09/29/14 15:54	09/30/14 15:34	1

Lab Sample ID: LCS 310-62588/2-A
Matrix: Water
Analysis Batch: 62793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00167	0.001574		mg/L		94	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 310-40044-4 MS
Matrix: Ground Water
Analysis Batch: 62793

Client Sample ID: B2 W
Prep Type: Dissolved
Prep Batch: 62588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000200		0.00167	0.0005965	F1	mg/L		36	75 - 125

Lab Sample ID: 310-40044-4 MSD
Matrix: Ground Water
Analysis Batch: 62793

Client Sample ID: B2 W
Prep Type: Dissolved
Prep Batch: 62588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.0006279	F1	mg/L		38	75 - 125	5	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 310-62326/1-A
Matrix: Solid
Analysis Batch: 62547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0196		0.0196		mg/Kg		09/26/14 14:52	09/29/14 12:08	1

Lab Sample ID: LCS 310-62326/2-A
Matrix: Solid
Analysis Batch: 62547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.164	0.1375		mg/Kg		84	80 - 120

GC/MS VOA

Prep Batch: 62528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	5030B	
310-40044-3	B2 1-2	Total/NA	Soil	5030B	
310-40044-5	B3 3-4	Total/NA	Soil	5030B	
310-40044-7	B4 5-6	Total/NA	Soil	5030B	
310-40044-9	B5 0-1	Total/NA	Soil	5030B	
LCS 310-62528/2-A	Lab Control Sample	Total/NA	Solid	5030B	
MB 310-62528/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 62530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	8260C	62528
310-40044-3	B2 1-2	Total/NA	Soil	8260C	62528
310-40044-5	B3 3-4	Total/NA	Soil	8260C	62528
310-40044-7	B4 5-6	Total/NA	Soil	8260C	62528
310-40044-9	B5 0-1	Total/NA	Soil	8260C	62528
LCS 310-62528/2-A	Lab Control Sample	Total/NA	Solid	8260C	62528
MB 310-62528/1-A	Method Blank	Total/NA	Solid	8260C	62528

Analysis Batch: 62912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Total/NA	Ground Water	8260C	
310-40044-4	B2 W	Total/NA	Ground Water	8260C	
310-40044-6	B3 W	Total/NA	Ground Water	8260C	
310-40044-8	B4 W	Total/NA	Ground Water	8260C	
310-40044-10	B5 W	Total/NA	Ground Water	8260C	
LCS 310-62912/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 310-62912/8	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 310-62912/6	Method Blank	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 62327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	3546	
310-40044-3	B2 1-2	Total/NA	Soil	3546	
310-40044-5	B3 3-4	Total/NA	Soil	3546	
310-40044-7	B4 5-6	Total/NA	Soil	3546	
310-40044-9	B5 0-1	Total/NA	Soil	3546	
LCS 310-62327/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 310-62327/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 62553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Total/NA	Ground Water	3510C	
310-40044-4	B2 W	Total/NA	Ground Water	3510C	
310-40044-6	B3 W	Total/NA	Ground Water	3510C	
310-40044-8	B4 W	Total/NA	Ground Water	3510C	
310-40044-10	B5 W	Total/NA	Ground Water	3510C	
LCS 310-62553/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-62553/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 62553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-62553/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 62631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-62327/2-A	Lab Control Sample	Total/NA	Solid	OA-2	62327
MB 310-62327/1-A	Method Blank	Total/NA	Solid	OA-2	62327

Analysis Batch: 62816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	OA-2	62327
310-40044-3	B2 1-2	Total/NA	Soil	OA-2	62327
310-40044-5	B3 3-4	Total/NA	Soil	OA-2	62327
310-40044-7	B4 5-6	Total/NA	Soil	OA-2	62327
310-40044-9	B5 0-1	Total/NA	Soil	OA-2	62327
LCS 310-62553/2-A	Lab Control Sample	Total/NA	Water	OA-2	62553
LCSD 310-62553/3-A	Lab Control Sample Dup	Total/NA	Water	OA-2	62553
MB 310-62553/1-A	Method Blank	Total/NA	Water	OA-2	62553

Analysis Batch: 62997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Total/NA	Ground Water	OA-2	62553
310-40044-4	B2 W	Total/NA	Ground Water	OA-2	62553
310-40044-6	B3 W	Total/NA	Ground Water	OA-2	62553
310-40044-8	B4 W	Total/NA	Ground Water	OA-2	62553
310-40044-10	B5 W	Total/NA	Ground Water	OA-2	62553

Metals

Prep Batch: 62326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	7471B	
310-40044-3	B2 1-2	Total/NA	Soil	7471B	
310-40044-5	B3 3-4	Total/NA	Soil	7471B	
310-40044-7	B4 5-6	Total/NA	Soil	7471B	
310-40044-9	B5 0-1	Total/NA	Soil	7471B	
LCS 310-62326/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 310-62326/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 62473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	3050B	
310-40044-3	B2 1-2	Total/NA	Soil	3050B	
310-40044-5	B3 3-4	Total/NA	Soil	3050B	
310-40044-5 DU	B3 3-4	Total/NA	Soil	3050B	
310-40044-7	B4 5-6	Total/NA	Soil	3050B	
310-40044-7 MS	B4 5-6	Total/NA	Soil	3050B	
310-40044-9	B5 0-1	Total/NA	Soil	3050B	
LCS 310-62473/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 310-62473/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 62479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Dissolved	Ground Water	3010A	
310-40044-2 MS	B1 W	Dissolved	Ground Water	3010A	
310-40044-2 MSD	B1 W	Dissolved	Ground Water	3010A	
310-40044-4	B2 W	Dissolved	Ground Water	3010A	
310-40044-6	B3 W	Dissolved	Ground Water	3010A	
310-40044-8	B4 W	Dissolved	Ground Water	3010A	
310-40044-10	B5 W	Dissolved	Ground Water	3010A	
LCS 310-62479/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 310-62479/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 62547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	7471B	62326
310-40044-3	B2 1-2	Total/NA	Soil	7471B	62326
310-40044-5	B3 3-4	Total/NA	Soil	7471B	62326
310-40044-7	B4 5-6	Total/NA	Soil	7471B	62326
310-40044-9	B5 0-1	Total/NA	Soil	7471B	62326
LCS 310-62326/2-A	Lab Control Sample	Total/NA	Solid	7471B	62326
MB 310-62326/1-A	Method Blank	Total/NA	Solid	7471B	62326

Prep Batch: 62588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Dissolved	Ground Water	7470A	
310-40044-4	B2 W	Dissolved	Ground Water	7470A	
310-40044-4 MS	B2 W	Dissolved	Ground Water	7470A	
310-40044-4 MSD	B2 W	Dissolved	Ground Water	7470A	
310-40044-6	B3 W	Dissolved	Ground Water	7470A	
310-40044-8	B4 W	Dissolved	Ground Water	7470A	
310-40044-10	B5 W	Dissolved	Ground Water	7470A	
LCS 310-62588/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 310-62588/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 62722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Dissolved	Ground Water	6020A	62479
310-40044-2 MS	B1 W	Dissolved	Ground Water	6020A	62479
310-40044-2 MSD	B1 W	Dissolved	Ground Water	6020A	62479
310-40044-4	B2 W	Dissolved	Ground Water	6020A	62479
310-40044-6	B3 W	Dissolved	Ground Water	6020A	62479
310-40044-8	B4 W	Dissolved	Ground Water	6020A	62479
310-40044-10	B5 W	Dissolved	Ground Water	6020A	62479
LCS 310-62479/2-A	Lab Control Sample	Total/NA	Water	6020A	62479
MB 310-62479/1-A	Method Blank	Total/NA	Water	6020A	62479

Analysis Batch: 62754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-62473/2-A	Lab Control Sample	Total/NA	Solid	6010C	62473
MB 310-62473/1-A	Method Blank	Total/NA	Solid	6010C	62473

Metals (Continued)

Analysis Batch: 62787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-1	B1 7-8	Total/NA	Soil	6010C	62473
310-40044-3	B2 1-2	Total/NA	Soil	6010C	62473
310-40044-5	B3 3-4	Total/NA	Soil	6010C	62473
310-40044-5 DU	B3 3-4	Total/NA	Soil	6010C	62473
310-40044-7	B4 5-6	Total/NA	Soil	6010C	62473
310-40044-7 MS	B4 5-6	Total/NA	Soil	6010C	62473
310-40044-9	B5 0-1	Total/NA	Soil	6010C	62473

Analysis Batch: 62793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-40044-2	B1 W	Dissolved	Ground Water	7470A	62588
310-40044-4	B2 W	Dissolved	Ground Water	7470A	62588
310-40044-4 MS	B2 W	Dissolved	Ground Water	7470A	62588
310-40044-4 MSD	B2 W	Dissolved	Ground Water	7470A	62588
310-40044-6	B3 W	Dissolved	Ground Water	7470A	62588
310-40044-8	B4 W	Dissolved	Ground Water	7470A	62588
310-40044-10	B5 W	Dissolved	Ground Water	7470A	62588
LCS 310-62588/2-A	Lab Control Sample	Total/NA	Water	7470A	62588
MB 310-62588/1-A	Method Blank	Total/NA	Water	7470A	62588

Client Sample ID: B1 7-8

Lab Sample ID: 310-40044-1

Date Collected: 09/25/14 09:10

Matrix: Soil

Date Received: 09/26/14 08:45

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			62528	09/29/14 11:49	TCH	TAL CF
Total/NA	Analysis	8260C		1	62530	09/30/14 03:53	TCH	TAL CF
Total/NA	Prep	3546			62327	09/27/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62816	10/01/14 19:02	BKT	TAL CF
Total/NA	Prep	3050B			62473	09/29/14 09:44	CJT	TAL CF
Total/NA	Analysis	6010C		3	62787	09/30/14 17:24	OAD	TAL CF
Total/NA	Prep	7471B			62326	09/26/14 14:52	CJT	TAL CF
Total/NA	Analysis	7471B		1	62547	09/29/14 12:42	JCM	TAL CF

Client Sample ID: B1 W

Lab Sample ID: 310-40044-2

Date Collected: 09/25/14 09:45

Matrix: Ground Water

Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62912	10/01/14 23:10	KNW	TAL CF
Total/NA	Prep	3510C			62553	09/30/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62997	10/02/14 18:59	BKT	TAL CF
Dissolved	Prep	3010A			62479	09/29/14 09:52	CJT	TAL CF
Dissolved	Analysis	6020A		1	62722	09/30/14 13:54	OAD	TAL CF
Dissolved	Prep	7470A			62588	09/29/14 15:54	JCM	TAL CF
Dissolved	Analysis	7470A		1	62793	09/30/14 15:37	JCM	TAL CF

Client Sample ID: B2 1-2

Lab Sample ID: 310-40044-3

Date Collected: 09/25/14 10:15

Matrix: Soil

Date Received: 09/26/14 08:45

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			62528	09/29/14 11:49	TCH	TAL CF
Total/NA	Analysis	8260C		1	62530	09/30/14 04:18	TCH	TAL CF
Total/NA	Prep	3546			62327	09/27/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62816	10/01/14 19:56	BKT	TAL CF
Total/NA	Prep	3050B			62473	09/29/14 09:44	CJT	TAL CF
Total/NA	Analysis	6010C		3	62787	09/30/14 17:26	OAD	TAL CF
Total/NA	Prep	7471B			62326	09/26/14 14:52	CJT	TAL CF
Total/NA	Analysis	7471B		1	62547	09/29/14 12:44	JCM	TAL CF

Client Sample ID: B2 W

Lab Sample ID: 310-40044-4

Date Collected: 09/25/14 15:00

Matrix: Ground Water

Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62912	10/01/14 23:32	KNW	TAL CF
Total/NA	Prep	3510C			62553	09/30/14 00:00	EEE	TAL CF

Client Sample ID: B2 W

Lab Sample ID: 310-40044-4

Date Collected: 09/25/14 15:00

Matrix: Ground Water

Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OA-2		1	62997	10/02/14 19:53	BKT	TAL CF
Dissolved	Prep	3010A			62479	09/29/14 09:52	CJT	TAL CF
Dissolved	Analysis	6020A		1	62722	09/30/14 14:06	OAD	TAL CF
Dissolved	Prep	7470A			62588	09/29/14 15:54	JCM	TAL CF
Dissolved	Analysis	7470A		1	62793	09/30/14 15:39	JCM	TAL CF

Client Sample ID: B3 3-4

Lab Sample ID: 310-40044-5

Date Collected: 09/25/14 11:05

Matrix: Soil

Date Received: 09/26/14 08:45

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			62528	09/29/14 11:49	TCH	TAL CF
Total/NA	Analysis	8260C		1	62530	09/30/14 04:43	TCH	TAL CF
Total/NA	Prep	3546			62327	09/27/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62816	10/01/14 20:51	BKT	TAL CF
Total/NA	Prep	3050B			62473	09/29/14 09:44	CJT	TAL CF
Total/NA	Analysis	6010C		3	62787	09/30/14 17:28	OAD	TAL CF
Total/NA	Prep	7471B			62326	09/26/14 14:52	CJT	TAL CF
Total/NA	Analysis	7471B		1	62547	09/29/14 12:45	JCM	TAL CF

Client Sample ID: B3 W

Lab Sample ID: 310-40044-6

Date Collected: 09/25/14 11:35

Matrix: Ground Water

Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62912	10/01/14 23:54	KNW	TAL CF
Total/NA	Prep	3510C			62553	09/30/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62997	10/02/14 20:47	BKT	TAL CF
Dissolved	Prep	3010A			62479	09/29/14 09:52	CJT	TAL CF
Dissolved	Analysis	6020A		1	62722	09/30/14 14:10	OAD	TAL CF
Dissolved	Prep	7470A			62588	09/29/14 15:54	JCM	TAL CF
Dissolved	Analysis	7470A		1	62793	09/30/14 15:47	JCM	TAL CF

Client Sample ID: B4 5-6

Lab Sample ID: 310-40044-7

Date Collected: 09/25/14 12:40

Matrix: Soil

Date Received: 09/26/14 08:45

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			62528	09/29/14 11:49	TCH	TAL CF
Total/NA	Analysis	8260C		1	62530	09/30/14 05:07	TCH	TAL CF
Total/NA	Prep	3546			62327	09/27/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62816	10/01/14 21:46	BKT	TAL CF
Total/NA	Prep	3050B			62473	09/29/14 09:44	CJT	TAL CF

Client Sample ID: B4 5-6

Lab Sample ID: 310-40044-7

Date Collected: 09/25/14 12:40
Matrix: Soil
Date Received: 09/26/14 08:45
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		3	62787	09/30/14 17:32	OAD	TAL CF
Total/NA	Prep	7471B			62326	09/26/14 14:52	CJT	TAL CF
Total/NA	Analysis	7471B		1	62547	09/29/14 12:47	JCM	TAL CF

Client Sample ID: B4 W

Lab Sample ID: 310-40044-8

Date Collected: 09/25/14 13:20
Matrix: Ground Water
Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62912	10/02/14 00:15	KNW	TAL CF
Total/NA	Prep	3510C			62553	09/30/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62997	10/02/14 21:41	BKT	TAL CF
Dissolved	Prep	3010A			62479	09/29/14 09:52	CJT	TAL CF
Dissolved	Analysis	6020A		1	62722	09/30/14 14:13	OAD	TAL CF
Dissolved	Prep	7470A			62588	09/29/14 15:54	JCM	TAL CF
Dissolved	Analysis	7470A		1	62793	09/30/14 15:48	JCM	TAL CF

Client Sample ID: B5 0-1

Lab Sample ID: 310-40044-9

Date Collected: 09/25/14 13:50
Matrix: Soil
Date Received: 09/26/14 08:45
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			62528	09/29/14 11:49	TCH	TAL CF
Total/NA	Analysis	8260C		1	62530	09/30/14 05:32	TCH	TAL CF
Total/NA	Prep	3546			62327	09/27/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62816	10/01/14 22:40	BKT	TAL CF
Total/NA	Prep	3050B			62473	09/29/14 09:44	CJT	TAL CF
Total/NA	Analysis	6010C		3	62787	09/30/14 17:40	OAD	TAL CF
Total/NA	Prep	7471B			62326	09/26/14 14:52	CJT	TAL CF
Total/NA	Analysis	7471B		1	62547	09/29/14 12:48	JCM	TAL CF

Client Sample ID: B5 W

Lab Sample ID: 310-40044-10

Date Collected: 09/25/14 14:25
Matrix: Ground Water
Date Received: 09/26/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	62912	10/02/14 00:58	KNW	TAL CF
Total/NA	Prep	3510C			62553	09/30/14 00:00	EEE	TAL CF
Total/NA	Analysis	OA-2		1	62997	10/02/14 22:34	BKT	TAL CF
Dissolved	Prep	3010A			62479	09/29/14 09:52	CJT	TAL CF
Dissolved	Analysis	6020A		1	62722	09/30/14 14:17	OAD	TAL CF
Dissolved	Prep	7470A			62588	09/29/14 15:54	JCM	TAL CF
Dissolved	Analysis	7470A		1	62793	09/30/14 15:50	JCM	TAL CF

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Laboratory: TestAmerica Cedar Falls

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
AIHA-LAP, LLC	IHLAP		101044	11-01-16
Georgia	State Program	4	N/A	09-29-15
Illinois	NELAP	5	200024	11-29-14
Iowa	State Program	7	007	12-01-15
Kansas	NELAP	7	E-10341	01-31-15
Minnesota	NELAP	5	019-999-319	12-31-14
North Dakota	State Program	8	R-186	09-29-14 *
Oregon	NELAP	10	IA100001	09-29-15
Wisconsin	State Program	5	999917270	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Liftruck Service Company LSI

TestAmerica Job ID: 310-40044-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CF
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	TAL CF
6010C	Metals (ICP)	SW846	TAL CF
6020A	Metals (ICP/MS)	SW846	TAL CF
7470A	Mercury (CVAA)	SW846	TAL CF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL CF

Protocol References:

Iowa DNR = Iowa Department of Natural Resources

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

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive • Cedar Falls, IA 50613
Tel 319-277-2401 • Fax 319-277-2425

TestAmerica Sample Receipt and T
Cedar Falls Facility

310-40044 Chain of Custody

Client: Terracon Project: _____

City: Bettendorf State: _____

Date: 9-26-14 Receiver's Initials: JC Time (Delivered): 8:45

Temperature Record:

Cooler ID# (If Applicable) _____

Uncorrected Temp: -0.3 °C

Corrected Temp: -0.4 °C

Thermometer:

- [ ] IR "E" - 111531506
- [ ] IR "Front" - 61854108
- [ ] IR "G" - 130195822
- [X] IR "H" - 130195853
- [ ] Other:

Courier:

- [X] UPS
- [ ] FedEx
- [ ] FedEx Ground
- [ ] US Postal Service
- [ ] Spee-Dee
- [ ] TA Courier
- [ ] TA Field Services
- [ ] Client
- [ ] Other: _____

- [X] Temperature blank
- [ ] Temperature out of compliance

Coolant Record:

- [X] Received on ice
  - [X] Wet ice
  - [ ] Blue ice
  - [ ] Dry ice
  - [ ] Other: _____
- [ ] NONE

Exceptions Noted:

- [ ] Sample(s) not received in cooler
- [ ] Sample(s) received same day of sampling
  - [ ] Evidence of chilling process
- [X] Temp blank <0°C, samples NOT FROZEN
- [ ] Temp blank <0°C, samples FROZEN
- [ ] Temperature not taken: *(indicate reason)* _____
- [ ] Non-Conformance Report Started

Custody Seals:

Cooler Custody Seals Present? [X] Yes [ ] No

Cooler Custody Seals Intact? [X] Yes [ ] No [ ] N/A

Sample Custody Seals Present? [ ] Yes [X] No

Sample Custody Seals Intact? [ ] Yes [ ] No [X] N/A

Cedar Falls
704 Enterprise Drive

Cedar Falls, IA 50613
phone 319.277.2401 fax 319.277.2425

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Carla S. Duncan	Site Contact: csduncan@terracon.c	Date: 9/25/2014	COC No:
Terracon	Tel/Fax: 563-355-0702	Lab Contact:	Carrier:	1 of 1 COCs
870 40th Avenue	Analysis Turnaround Time			Job No. 07147067
Bettendorf, Iowa 52722	Calendar (C) or Work Days (W) W			
(563) 355-0702 Phone	TAT if different from Below			SDG No.
(563) 355-4789 FAX	☐ 2 weeks			
Project Name: Liftruck Service Company LSI	☒ 1 week			
Site: Davenport, Iowa	☐ 2 days			
P O # 07147067	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (8260)	TEH (OA-2)	Metals (6010/7000)	Sample Specific Notes:
B1- 7-8	9/25/2014	9:10	Grab	SL	3		X	X	X	
B1- W	9/25/2014	9845	Grab	GW	5	X	X	X	X	
B2- 1-2	9/25/2014	10:15	Grab	SL	3		X	X	X	
B2- W	9/25/2014	15:00	Grab	GW	5	X	X	X	X	
B3- 3-4	9/25/2014	11:05	Grab	SL	3		X	X	X	
B3- W	9/25/2014	11:35	Grab	GW	5	X	X	X	X	
B4- 5-6	9/25/2014	12:40	Grab	SL	3		X	X	X	
B4- W	9/25/2014	13:20	Grab	GW	5	X	X	X	X	
B5- 0-1	9/25/2014	13:50	Grab	SL	3		X	X	X	
B5- W	9/25/2014	14:25	Grab	GW	5	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by: Josh Lopez	Company: Terracon	Date/Time: 9/25/2014 15:50	Received by: Tony Edelen	Company:	Date/Time: 9/25/14 3:55
Relinquished by: Tony Edelen	Company:	Date/Time: 9/25/14 1630	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TACT	Date/Time: 9/26/14 8:48

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
B1 W	310-40044-E-2	Plastic 250ml - w/nitric - dis	<2	_____	_____
B2 W	310-40044-E-4	Plastic 250ml - w/nitric - dis	<2	_____	_____
B3 W	310-40044-E-6	Plastic 250ml - w/nitric - dis	<2	_____	_____
B4 W	310-40044-E-8	Plastic 250ml - w/nitric - dis	<2	_____	_____
BR W	310-40044-E-10	Plastic 250ml - w/nitric - dis	<2	_____	_____

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 310-40044-1

Login Number: 40044

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Wilson, Cheryl L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	