



## **PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**

***PREPARED FOR:***

HK SCHOOL LAW  
P.O. BOX 784  
CRESTLINE, CALIFORNIA 92325

***PERFORMED AT:***

UNDEVELOPED LAND  
23151 PALOMAR STREET  
WILDOMAR, CALIFORNIA 92595

***SUBMITTED TO:***

MR. RICHARD HANSBERGER

MAY 1, 2014

# All Appropriate Inquiries Environmental Corporation™

May 1, 2014

Mr. Richard Hansberger  
HK School of Law  
P.O. Box 784  
Crestline, California 92325

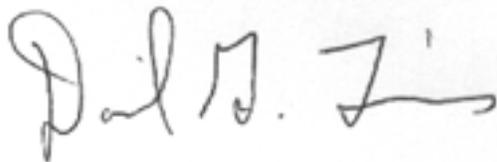
**SUBJECT: Report of Phase II Environmental Site Assessment  
Undeveloped Land  
23151 Palomar Street  
Wildomar, California 92595**

Dear Mr. Hansberger:

All Appropriate Inquiries (AAI) Environmental Corporation™ is pleased to submit this report of our Phase II Environmental Site Assessment for the Undeveloped Land located at 23151 Palomar Street in Wildomar, California. Please refer to the Conclusions and Recommendations on page 8 of this report.

We appreciate your selection of AAI for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "D. G. Tims". The signature is written in a cursive, somewhat stylized font.

Daniel G. Tims, P.G.  
B.S. Geology 1983  
EPA-Compliant Environmental Professional (40 CFR Part 312)

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## I. INTRODUCTION

All Appropriate Inquiries (AAI) Environmental Corporation™ was retained by HK School of Law to perform a Phase II Environmental Site Assessment (ESA) Report for the underdeveloped land located at 23151 Palomar Street, Wildomar, California 92595 (herein referred to as the subject site or subject property).

### *Exhibit 1 - Site Vicinity Map*

The subject site is a vacant parcel of land approximately 9.7 acres in size. Historical photos show a small orchard on the southwest corner and possible “wildcat” oil drilling areas in the central portion of the subject property. The purpose of this Phase II ESA report was to determine the condition of the soil in these areas of concern. This Phase II ESA report was recommended in a Phase I ESA Report prepared for the subject property by AAI, dated March 27, 2014.

At the request of the Client and the City Planner, AAI did not sample in the pond area nor at the former railroad tracks, since those areas are not going to be disturbed during development. Any potential contamination in those areas were specifically not addressed in this investigation based on this request.

## II. BACKGROUND

### A. Site Location

The subject site was located at an undeveloped plot of land 23151 Palomar Street, Wildomar, California 92595 in Riverside County. The latitude was 33.58395 and the longitude 117.2478. The Riverside County Assessor’s Office parcel number assigned to the subject property was 380170101-1. The Legal description identified for the subject property was M/L IN POR PAR RS 008/098.

### B. Site History

Based on a review of available historical records, including historical aerial photographs, historical aerial topographic maps and records obtained from California Oil, Gas, and Geothermal Resources (DOGGR) website no wells were dug on the property. One abandoned dry well was located approximately 2 miles from to the northeast of the subject property.

Review of historic photographs (1938) appears to indicate the diversion of water from the stream along the southern boundary of the subject site which had created a water impoundment.

During review of historic aerial photographs (1938), evidence of wildcat drilling well were observed in the central area of the property according to DOGGR no specific well records were identified for the subject property.

### C. Geology & Hydrogeology

#### Regional Geology

According to Morton and Matti (2001), the region is located in the northern part of the Peninsular Ranges Province and is underlain by Cretaceous and older basement rocks. This part of the Peninsular Ranges Province is divided into the Perris block, located west of the San Jacinto fault and the San Jacinto Mountains block to the east. The northwest quarter of the quadrangle is crossed diagonally by the San Jacinto fault zone, an important active major fault of the San Andreas fault system. The San Jacinto fault zone consist of a main trace and multiple discontinuous breaks. The main trace forms a dissected, west-facing fault scarp above the valley floor. A vaguely located fault in granitic rocks parallel to and west of the San Jacinto fault zone does not appear to cut Pleistocene age alluvial deposits.

On the northern side of the San Jacinto fault zone is a thick section of Pliocene and Pleistocene continental sedimentary rocks. The area underlain by these rocks is termed the San Timoteo Badlands. Most of these beds consist of coarse-grained sandstone, conglomeratic sandstone, and conglomerate. All the clasts within these beds were derived from Transverse Ranges basement rocks that are located to the north of the quadrangle. The San Timoteo beds have been deformed into a broad anticlinal structure produced by the sedimentary beds being compressed as they are translated around a restraining bend in the San Jacinto fault north of the El Casco quadrangle. A curving, diachronous fault produced by this compression is located in the western part of the badlands just east of the San Jacinto fault zone.

The area west of the San Jacinto fault zone is underlain by plutonic rocks of the Cretaceous-age Peninsular Ranges batholith with a few small included pendants of schist and gneiss of probable Paleozoic age. Most of the plutonic rocks are of tonalite composition and are mainly biotitehornblende tonalite. In the northwestern part of the quadrangle is the eastern part of the Box Springs granitic complex, a basinal-shaped complex that appears to be the distal part of a diapiric-shaped complex.

Most of the alluviated area west of the San Jacinto fault zone consists of Pleistocene age fluvial deposits. Most of these deposits have a degraded upper surface. The upper surface of these deposits are preserved in some places near the contact with granitic rocks.

### Site Geology

The topography of the subject property was relatively flat. Surrounding properties were of similar elevation to that of the subject property. The elevation of the subject property was approximately 1,210 feet above mean sea level (*Murrieta, California 7.5-Minute Quadrangle Map, United States Geological Survey (USGS), dated 1979*). The coordinates were Latitude 33.58395 and Longitude -117.2478. No detailed descriptions of the soils were available for the subject property.

In the areas where borings were completed, the Site is underlain by artificial fill of varying thickness. Typically, the fill is thickest (~12 feet thick) along the northwestern side of the property and thinnest along the northeastern side of the property (~2 feet thick). The artificial fill is composed of reddish brown to brown sands and silts with some gravel and some decomposed granite layers. The native formation material is predominately a brown clay with moderate plasticity.

### Hydrogeology

No groundwater supply or monitoring wells were noted or observed on the subject property. Groundwater was not encountered during the assessment activities described in this report. AAI identified the stream crossing the southern portion of the property as Murrieta Creek.

According to the Riverside County Department of the Environmental Health, no wells were located on the subject property. According to the California Department of Water Resources, the groundwater table for perched water in the area of the subject property is approximately 20-40 feet below ground surface.

In areas underlain by recent alluvium, shallow groundwater flow typically mimics surface topography. Groundwater in the vicinity of the subject property is expected to flow southeast along Murrieta Creek.

Groundwater was not encountered to a depth of 15 feet bgs during this investigation.

## **III. INVESTIGATIVE PROCEDURES**

### **A. Borings and Sampling**

The borings were advanced using a Geoprobe Model 5 track-mounted direct push drilling rig by BC2 Drilling. Samples were obtained continuously using 4-foot acetate liners. The samples were analyzed using a photoionization detector (PID) and were described using the Unified Soil Classification (USC) System.

## BACKFILL PROCEDURE

Soil borings were backfilled with hydrated bentonite in accordance with California standard practices. Due to the nature of sampling with acetate liners, all soils were collected and retained; therefore, soil cuttings were not generated.

Soil samples from the potential Wildcat drilling area were collected by cutting the acetate liner into a 6 inch section. Then, Teflon sheets and caps were applied the ends of the Teflon sleeves. The sleeves were then labeled and placed into ziplock bags and into a cooler with dry-ice. All samples were transported to EnviroMatrix Analytical under chain-of-custody procedures.

Soil samples from the former orchard area, were collected with a hand-auger and placed into laboratory provided 4-oz jars.

Sample personnel wore clean powderless nitrile gloves. Sampling equipment was cleaned by non-phosphate soapy distilled water and triple-rinsed with distilled water before each sample was collected to prevent cross contamination between samples.

*Exhibit 2      Site Plan with Boring Locations*  
*Exhibit 3      Boring Logs*

#### IV. LABORATORY ANALYSIS

##### A. Analyses Performed

EnviroMatrix Analytical performed chemical analyses on the soil samples. EnviroMatrix is an accredited laboratory in California. The following table lists the samples analyzed during this investigation.

Table 1. Sample number and analysis performed

Sample ID & Location	Matrix	Sample Status	Analyses						
			PCBs (8082)	Arsenic (TTLC)	Pesticides (8081 & 8141)	PAH (8270c)	VOC (8260b)	Metals (Title 22)	TPH (8015 ext)
OR-1-6" BGS Orchard Area	Soil	Lab	-	X	X	-	-	-	-
OR-2-6" BGS Orchard Area	Soil	Lab	-	X	X	-	-	-	-
OR-3-6" BGS Orchard Area	Soil	Lab	-	X	X	-	-	-	-
OW-4-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X
OW-5-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X
OW-6-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X
OW-7-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X
OW-8-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X
OW-9-5' BGS Oil Well (Wildcat) Area	Soil	Lab	X	-	-	X	X	X	X

Notes:

Lab = Sample analyzed by the laboratory

X = Analyte analyzed by the laboratory

- = Analyte not analyzed by the laboratory

## B. Results of Soil Analysis

Soil sample lab results were below the laboratory detection limits for Volatile Organic Compounds (VOCs), Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH), and all Polycyclic Aromatic Hydrocarbons (PAHs).

Regarding pesticides, one sample (OR-1-6" BGS) had a detection of 4,4'-DDT at 2.62 ug/kg. This concentration was slightly above the Reporting Limit of 2.00 ug/kg and well below applicable regulatory standards (California Human Health Screening Levels – 1,600 ug/kg) for residential soils. All other samples analyzed had no detections of any pesticides.

Laboratory results for Title 22 metals indicated typical geogenic (natural) or non-detectable concentrations in the soils. All Title 22 metals were present at levels below their respective California Human Health Screening Levels in all soil samples that were analyzed.

*Exhibit 4 Laboratory Analytical Report*

## V. CONCLUSIONS

This Phase II ESA was implemented to determine if a significant environmental liability existed in the subsurface due to the suspected Wildcat drilling and agricultural activities at the property.

Based upon the findings of the current Phase II Environmental Site Assessment, the following conclusions are drawn:

- No unusual odor or soil staining was observed during this investigation. In the suspected area of Wildcat drilling, the Site appears to have been graded with imported fill material (artificial fill). Samples were collected from the artificial fill layers and the native formation layers.
- Laboratory results for Title 22 metals indicated typical geogenic (natural) concentrations or non-detectable concentrations in the soils. All Title 22 metals were present at levels below their respective California Human Health Screening Levels in all soil samples that were analyzed.
- Soil sample lab results were below the laboratory detection limits for VOCs, PCBs, TPH, and all PAHs.

- Regarding pesticides, one sample (OR-1-6" BGS) had a detection of 4,4'-DDT at 2.62 ug/kg. This concentration was slightly above the Reporting Limit of 2.00 ug/kg and well below applicable regulatory standards (California Human Health Screening Levels – 1,600 ug/kg) for residential soils. All other samples analyzed had no detections of any pesticides.

## **VI. RECOMMENDATIONS**

AAI does not recommend any further evaluation of the suspected Wildcat drilling area or the former orchard area at the subject property.

## VII. REFERENCES

All Appropriate Inquiries Environmental Corporation: *Phase I Environmental Site Assessment, 23151 Palomar Street, Wildomar, California 92595*, March 27, 2014.

Morton, Douglas M., and Matti, Jonathan C. 2001, Geologic Map of the Sunnymead 7.5' Quadrangle, Riverside County, California: U.S. Geological Survey Open-File Report 01-450, U.S. Geological Survey, Menlo Park, California.

United States Geological Survey, Murrieta, California 7.5-Minute Quadrangle Map (1979).

## VIII. LIMITATIONS OF INVESTIGATION

The scope of this investigation was intended to provide selected environmental information in accordance with a scope of work contracted for by the Client/Owner.

The scope of work was not intended to be comprehensive, identify all potential concerns, or eliminate the possibility of the site having some degree of environmental problem. No degree of assessment can ascertain that a site is completely free of hazardous substances: some regulatory and other pertinent data may be lacking which is critical in completing a full environmental profile of the subject property. The report was compiled based partially on information from outside sources and other information, which is in the public domain. All Appropriate Inquiries Environmental Corporation (AAI) makes no warranty as to the accuracy of the statements made by others which are contained in this report, nor are any other warranties or guarantees, expressed or implied, included or intended in the report with respect to information supplied by outside sources or conclusions or recommendations substantially based on information supplied by outside sources.

AAI's investigation, within the framework of the contractual scope of work, was performed using the degree of care and skill ordinarily exercised, under similar circumstances by reputable environmental specialists in this or similar localities. The report represents AAI's best professional judgment. Since the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature.

Samples collected and used for testing and observations are believed representative of the entire project; however, soil and geologic conditions as well as groundwater conditions can vary between borings, test pits, and surface outcrops.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure proper/legal disclosures to public, private and regulatory entities. The interpretations and recommendations of this report are based on the data collected and AAI's present working knowledge of environmental site assessments. As such, this report is valid as of the date shown and AAI cannot be responsible for subsequent changes in physical/chemical/environmental conditions and/or legislation over which AAI has no control.

THIRD PARTY LIABILITY DISCLAIMER

This report is the work product of AAI, which has been produced in accordance with a specific contract between AAI and its Client who is represented by the party to whom this report is addressed.

This report is the work product for the sole use and benefit of the contracting Client. It does not create any rights or benefits to parties other than the Client and AAI, except such other rights as are specifically called for herein.

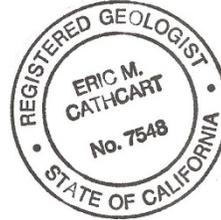
AAI consents to the release of this report to third parties at the discretion of the Client. However, any use of or reliance upon this information by a party other than the Client shall be solely at the risk of such third party and without legal recourse against AAI, its affiliates, associates, employees, officers, or directors, regardless of whether the action in which recovery of the damage is sought is based upon contract, tort (including the sole, concurrent or other negligence and strict liability of AAI), statute or otherwise. This report shall not be used or relied upon by a party, which does not agree to be bound by the above statement. This report is valid as of the date shown and AAI shall not be held responsible for subsequent changes in Physical/Chemical/Environmental conditions and/or legislation over which AAI has no control.

**IV. CERTIFICATION**

Report by:

*Eric M. Cathcart*

Eric M. Cathcart, MS, PG  
California Professional Geologist #7548



Reviewed by:

*Daniel G. Tims*

Daniel G. Tims, P.G.

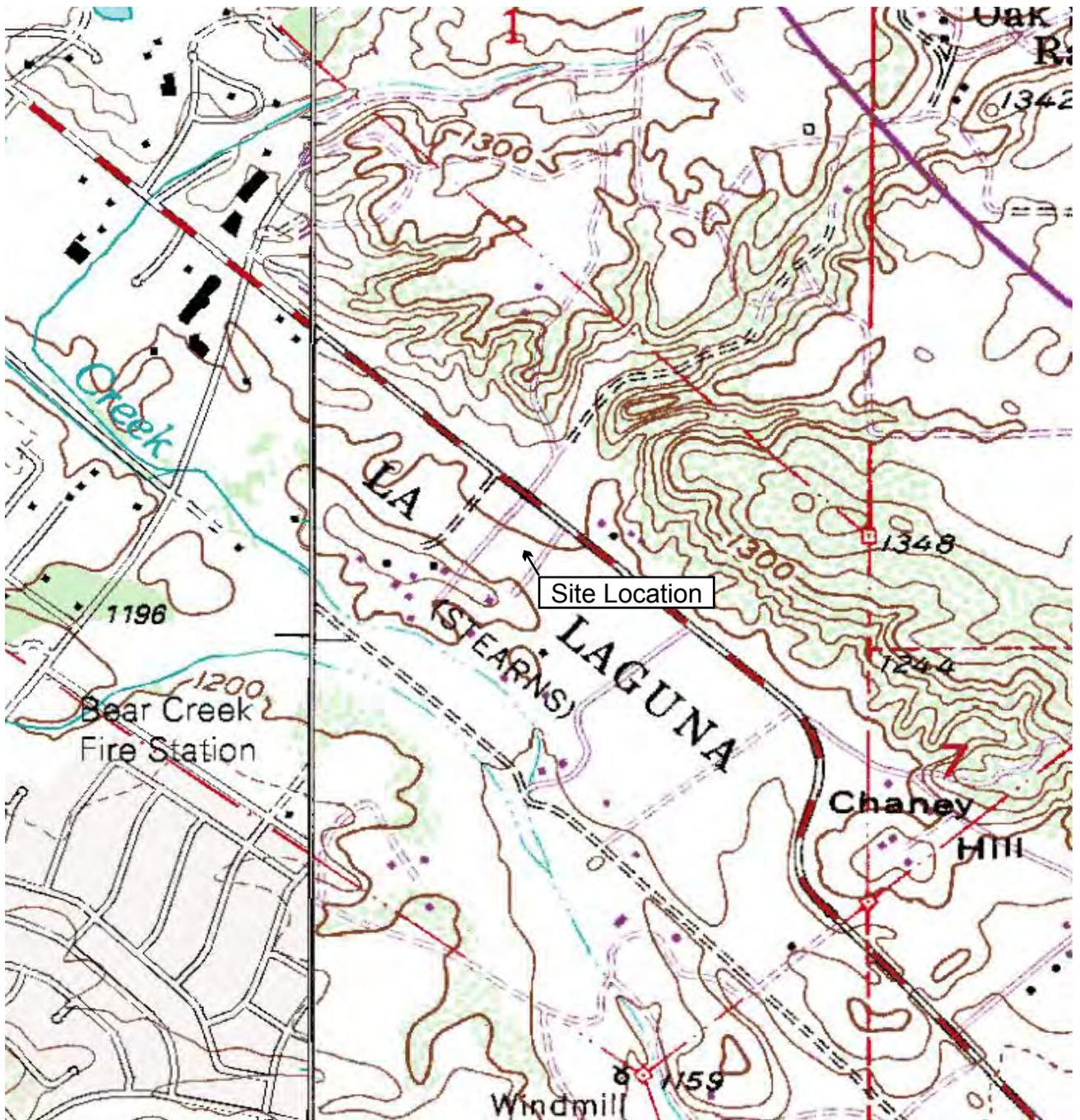


## EXHIBIT 1

SITE VICINITY MAP

3030 River Road  
Ashland City, TN 37015  
[www.aaienvcorp.com](http://www.aaienvcorp.com)

Phone: 888-221-0297  
Fax: 866-255-1622  
[info@aaienvcorp.com](mailto:info@aaienvcorp.com)



United States Geological Survey Topo Murrieta, CA 1979

1:24000



Site Coordinates:

Latitude 33.58395

Longitude -117.2478

SITE ADDRESS	FIGURE	BY
Undeveloped Land 23151 Palomar Street Wildomar, California 92595	Site Vicinity Map	<b>AAI ENVIRONMENTAL CORPORATION</b> 3030 River Road Ashland City, TN 37015 <small>Drawing by CM March 2014</small>

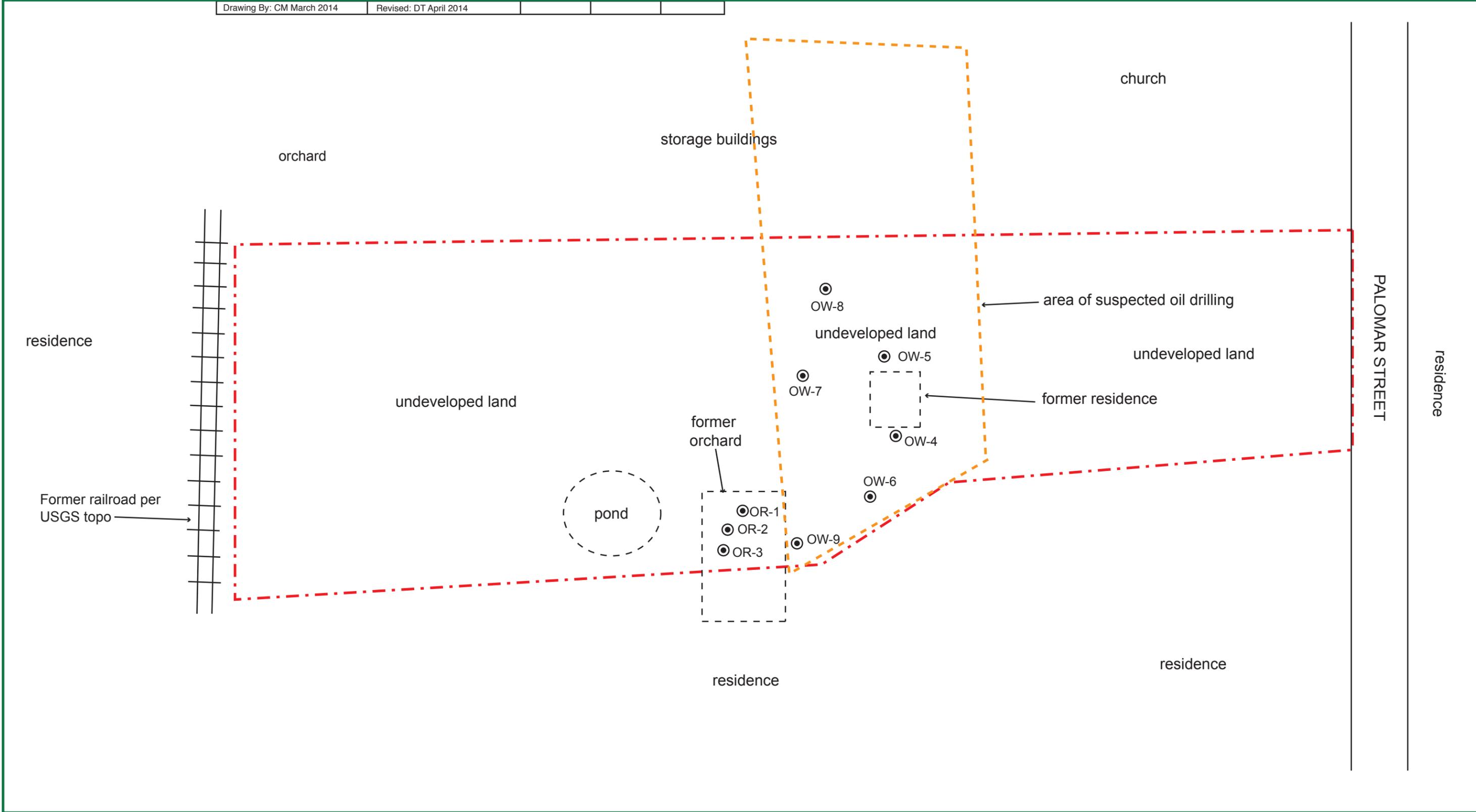


## EXHIBIT 2

SITE PLAN WITH BORING LOCATIONS

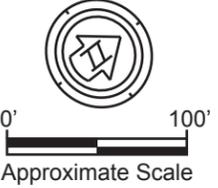
3030 River Road  
Ashland City, TN 37015  
[www.aaienvcorp.com](http://www.aaienvcorp.com)

Phone: 888-221-0297  
Fax: 866-255-1622  
[info@aaienvcorp.com](mailto:info@aaienvcorp.com)



LEGEND

- Approximate Boundary of Subject Property - - - - -
- Approximate area of possible former oil well drilling activities (1938 aerial photo) - - - - -
- Soil Boring Location ●



SITE ADDRESS

Undeveloped Land  
23151 Palomar Street  
Wildomar, California 92595

FIGURE

Site Plan with  
Boring Locations

**AAI ENVIRONMENTAL CORPORATION**  
3030 River Road  
Ashland City, TN 37015



## **EXHIBIT 3**

### BORING LOGS

3030 River Road  
Ashland City, TN 37015  
[www.aaienvcorp.com](http://www.aaienvcorp.com)

Phone: 888-221-0297  
Fax: 866-255-1622  
[info@aaienvcorp.com](mailto:info@aaienvcorp.com)

All Appropriate Inquiries Environmental Corporation		CLIENT	HK School Law
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-4
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

Depth (ft)	Blows / 6 in.	Recovery (ft/ft)	PID (ppm)	Sample	Lithology	DESCRIPTION	Completion Detail	Remarks
						Unfinished surface		
						SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL SM		
						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION SC		Borehole was backfilled with hydrated bentonite
5			<1.0	X		decomposed granite with some clayey gravels. no odor,		
						Total Depth = 5 feet		
						SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL		
10						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, No Odor, No Staining. NATIVE FORMATION		
						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION		
15								
20								

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					Page 1

<b>All Appropriate Inquiries Environmental Corporation</b>		<b>CLIENT</b>	<b>HK School Law</b>
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-5
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

Depth (ft)	Blows / 6 in.	Recovery (ft/ft)	PID (ppm)	Sample	Lithology	DESCRIPTION	Completion Detail	Remarks
						Unfinished surface		
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				X				Borehole was backfilled with hydrated bentonite
5			<1.0			SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL		
						Total Depth = 5 feet		
						SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL		
10						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, No Odor, No Staining. NATIVE FORMATION		
						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION		
15								
20								

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					<b>Page 1</b>

<b>All Appropriate Inquiries Environmental Corporation</b>		<b>CLIENT</b>	<b>HK School Law</b>
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-6
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

Depth (ft)	Blows / 6 in.	Recovery (ft/ft)	PID (ppm)	Sample	Lithology	DESCRIPTION	Completion Detail	Remarks
						Unfinished surface		
5			<1.0	X		SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL SM		Borehole was backfilled with hydrated bentonite
						SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey		
10			<1.0	X		gravels. no odor, no staining. ARTIFICIAL FILL SC SILTY CLAY, olive-brown, moist, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION		
15								
						Total Depth =10 feet		
20								

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					<b>Page 1</b>

<b>All Appropriate Inquiries Environmental Corporation</b>		<b>CLIENT</b>	<b>HK School Law</b>
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-7
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

Depth (ft)	Blows / 6 in.	Recovery (ft/ft)	PID (ppm)	Sample	Lithology	DESCRIPTION	Completion Detail	Remarks
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10			<1.0	X		SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL SM		
12			<1.0			SILTY CLAY, olive-brown, moist, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION SC		
15						Total Depth =12 feet		
20								

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					<b>Page 1</b>

<b>All Appropriate Inquiries Environmental Corporation</b>		<b>CLIENT</b>	<b>HK School Law</b>
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-8
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

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						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, No Odor, No Staining. NATIVE FORMATION SM		
15			<1.0	X		SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, no odor, no staining. NATIVE FORMATION SC		
						Total Depth =15 feet		

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					<b>Page 1</b>

<b>All Appropriate Inquiries Environmental Corporation</b>		<b>CLIENT</b>	<b>HK School Law</b>
<b>SITE</b>	23151 Palomar Street, Wildomar CA	<b>BORING NO.</b>	OW-9
Boring Location:	Potential Wildcat Drilling Area	Date Started	04/17/14
Drilling Contractor:	BC2	Date Completed	04/17/14
Drilling Method:	Hydraulic Push - Geoprobe	Ground Elev. (ft)	Unknown
Drilling Equipment:	Track-mounted	Depth to Water - init. (ft)	N/A
Sampling Method:	Acetate and hammer	Depth to Water - after compl. (ft)	N/A
Sampler Type:	Capped in acetate	Logged By	Harris / Cathcart

Depth (ft)	Blows / 6 in.	Recovery (ft/ft)	PID (ppm)	Sample	Lithology	DESCRIPTION	Completion Detail	Remarks
						Unfinished surface		
5			<1.0	X		SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL GC		Borehole was backfilled with hydrated bentonite
10			<1.0	X		SILTY SAND, yellow-brown, dry, very loose, grading into decomposed granite with some clayey gravels. no odor, no staining. ARTIFICIAL FILL		
15			<1.0	X		SILTY CLAY, olive-brown, mosit, stiff, slight plasticity, No Odor, No Staining. NATIVE FORMATION SC		
						SILTY CLAY, olive-brown, mosit, stiff, slight plasticity. no odor, no staining. NATIVE FORMATION SC		
						Total Depth =15 feet		

<b>PROJECT NO.</b>	HK.PO2	<b>Field Geologist/Scientist:</b>	Cornelius Harris	<b>Responsible Geologist:</b>	Eric Cathcart, PG
Note: lith = sample used for lithologic descrip. & field measurements, lab = sample sent to laboratory, held = sample held unanalyzed by laboratory					
					<b>Page 1</b>



## EXHIBIT 4

### LABORATORY ANALYTICAL REPORT

3030 River Road  
Ashland City, TN 37015  
[www.aaienvcorp.com](http://www.aaienvcorp.com)

Phone: 888-221-0297  
Fax: 866-255-1622  
[info@aaienvcorp.com](mailto:info@aaienvcorp.com)



23 April 2014

H. M. Pitt Labs, Inc.  
Attn: Cornelius Harris  
2434 Southport Way, Ste L  
National City, CA 91950

**EMA Log #: 14D0509**

**Project Name: AAI-134810**

Enclosed are the results of analyses for samples received by the laboratory on 04/17/14 14:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Dan Verdon', is written over a light gray grid background.

**Dan Verdon**  
**Laboratory Director**

CA ELAP Certification #: 2564

Client Name: H. M. Pitt Labs, Inc.  
Project Name: AAI-134810

EMA Log #: 14D0509

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OR-1-6"-BGS	14D0509-01	Soil	04/17/14 10:45	04/17/14 14:35
OR-2-6"-BGS	14D0509-03	Soil	04/17/14 10:55	04/17/14 14:35
OR-3-6"-BGS	14D0509-05	Soil	04/17/14 11:02	04/17/14 14:35
OW-4-5'-BGS	14D0509-07	Soil	04/17/14 10:30	04/17/14 14:35
OW-5-5'-BGS	14D0509-08	Soil	04/17/14 10:40	04/17/14 14:35
OW-6-5'-BGS	14D0509-09	Soil	04/17/14 09:45	04/17/14 14:35
OW-7-5'-BGS	14D0509-11	Soil	04/17/14 10:15	04/17/14 14:35
OW-8-5'-BGS	14D0509-13	Soil	04/17/14 08:30	04/17/14 14:35
OW-9-5'-BGS	14D0509-16	Soil	04/17/14 09:25	04/17/14 14:35

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OR-1-6''-BGS (14D0509-01) Soil    Sampled: 04/17/14 10:45    Received: 04/17/14 14:35</b>									
Arsenic	ND	1.00	mg/kg	1	4041711	04/17/14	04/18/14	EPA 6010	
<b>OR-2-6''-BGS (14D0509-03) Soil    Sampled: 04/17/14 10:55    Received: 04/17/14 14:35</b>									
Arsenic	ND	1.00	mg/kg	1	4041711	04/17/14	04/18/14	EPA 6010	
<b>OR-3-6''-BGS (14D0509-05) Soil    Sampled: 04/17/14 11:02    Received: 04/17/14 14:35</b>									
Arsenic	ND	1.00	mg/kg	1	4041711	04/17/14	04/18/14	EPA 6010	
<b>OW-4-5''-BGS (14D0509-07) Soil    Sampled: 04/17/14 10:30    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>256</b>	1.00	"	"	"	"	"	"	
Beryllium	ND	1.00	"	"	"	"	"	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
<b>Chromium</b>	<b>37.7</b>	1.00	"	"	"	"	"	"	
<b>Cobalt</b>	<b>30.7</b>	1.00	"	"	"	"	"	"	
<b>Copper</b>	<b>30.0</b>	1.00	"	"	"	"	"	"	
<b>Lead</b>	<b>5.99</b>	1.00	"	"	"	"	"	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>32.6</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
<b>Vanadium</b>	<b>117</b>	1.00	"	"	"	"	"	"	
<b>Zinc</b>	<b>65.3</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-5-5'-BGS (14D0509-08) Soil    Sampled: 04/17/14 10:40    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>136</b>	1.00	"	"	"	"	"	"	
Beryllium	ND	1.00	"	"	"	"	04/22/14	"	
Cadmium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Chromium</b>	<b>15.4</b>	1.00	"	"	"	"	"	"	
<b>Cobalt</b>	<b>14.0</b>	1.00	"	"	"	"	"	"	
<b>Copper</b>	<b>7.71</b>	1.00	"	"	"	"	"	"	
<b>Lead</b>	<b>1.38</b>	1.00	"	"	"	"	"	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>5.22</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
<b>Vanadium</b>	<b>78.2</b>	1.00	"	"	"	"	"	"	
<b>Zinc</b>	<b>36.4</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	
<b>OW-6-5'-BGS (14D0509-09) Soil    Sampled: 04/17/14 09:45    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>120</b>	1.00	"	"	"	"	"	"	
Beryllium	ND	1.00	"	"	"	"	04/22/14	"	
Cadmium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Chromium</b>	<b>17.6</b>	1.00	"	"	"	"	"	"	
<b>Cobalt</b>	<b>10.3</b>	1.00	"	"	"	"	"	"	
<b>Copper</b>	<b>12.4</b>	1.00	"	"	"	"	"	"	
<b>Lead</b>	<b>1.92</b>	1.00	"	"	"	"	"	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>8.75</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
<b>Vanadium</b>	<b>57.8</b>	1.00	"	"	"	"	"	"	
<b>Zinc</b>	<b>53.0</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-7-5'-BGS (14D0509-11) Soil    Sampled: 04/17/14 10:15    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>81.3</b>	1.00	"	"	"	"	"	"	
Beryllium	ND	1.00	"	"	"	"	04/22/14	"	
Cadmium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Chromium</b>	<b>14.4</b>	1.00	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.72</b>	1.00	"	"	"	"	"	"	
<b>Copper</b>	<b>6.95</b>	1.00	"	"	"	"	"	"	
<b>Lead</b>	<b>1.30</b>	1.00	"	"	"	"	"	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.33</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Thallium	ND	1.00	"	"	"	"	"	"	
<b>Vanadium</b>	<b>72.9</b>	1.00	"	"	"	"	"	"	
<b>Zinc</b>	<b>41.8</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	
<b>OW-8-5'-BGS (14D0509-13) Soil    Sampled: 04/17/14 08:30    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>82.8</b>	1.00	"	"	"	"	04/22/14	"	
Beryllium	ND	1.00	"	"	"	"	04/22/14	"	
Cadmium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Chromium</b>	<b>23.1</b>	1.00	"	"	"	"	04/22/14	"	
<b>Cobalt</b>	<b>8.29</b>	1.00	"	"	"	"	04/22/14	"	
<b>Copper</b>	<b>9.54</b>	1.00	"	"	"	"	04/22/14	"	
<b>Lead</b>	<b>2.33</b>	1.00	"	"	"	"	04/22/14	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>6.78</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	04/22/14	"	
Thallium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Vanadium</b>	<b>57.5</b>	1.00	"	"	"	"	04/22/14	"	
<b>Zinc</b>	<b>36.2</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-9-5'-BGS (14D0509-16) Soil    Sampled: 04/17/14 09:25    Received: 04/17/14 14:35</b>									
Antimony	ND	10.0	mg/kg	1	4042128	04/21/14	04/22/14	EPA 6010	
Arsenic	ND	1.00	"	"	"	"	"	"	
<b>Barium</b>	<b>71.4</b>	1.00	"	"	"	"	04/22/14	"	
Beryllium	ND	1.00	"	"	"	"	04/22/14	"	
Cadmium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Chromium</b>	<b>16.2</b>	1.00	"	"	"	"	"	"	
<b>Cobalt</b>	<b>7.92</b>	1.00	"	"	"	"	"	"	
<b>Copper</b>	<b>7.68</b>	1.00	"	"	"	"	04/22/14	"	
<b>Lead</b>	<b>1.61</b>	1.00	"	"	"	"	04/22/14	"	
Molybdenum	ND	5.00	"	"	"	"	"	"	
<b>Nickel</b>	<b>5.89</b>	1.00	"	"	"	"	"	"	
Selenium	ND	1.00	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	04/22/14	"	
Thallium	ND	1.00	"	"	"	"	04/22/14	"	
<b>Vanadium</b>	<b>62.4</b>	1.00	"	"	"	"	04/22/14	"	
<b>Zinc</b>	<b>33.0</b>	1.00	"	"	"	"	"	"	
Mercury	ND	0.05	"	"	4041824	04/18/14	04/18/14	EPA 7471	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organochlorine Pesticides by EPA Method 8081B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OR-1-6''-BGS (14D0509-01) Soil    Sampled: 04/17/14 10:45    Received: 04/17/14 14:35</b>									
Aldrin	ND	2.00	ug/kg	1	4041826	04/18/14	04/22/14	EPA 8081	
alpha-BHC	ND	2.00	"	"	"	"	"	"	
beta-BHC	ND	2.00	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	2.00	"	"	"	"	"	"	
delta-BHC	ND	2.00	"	"	"	"	"	"	
alpha-Chlordane	ND	5.00	"	"	"	"	"	"	
gamma-Chlordane	ND	5.00	"	"	"	"	"	"	
Chlordane (Total)	ND	5.00	"	"	"	"	"	"	
4,4'-DDD	ND	2.00	"	"	"	"	"	"	
4,4'-DDE	ND	2.00	"	"	"	"	"	"	
<b>4,4'-DDT</b>	<b>2.62</b>	2.00	"	"	"	"	"	"	
Dieldrin	ND	2.00	"	"	"	"	"	"	
Endosulfan I	ND	2.00	"	"	"	"	"	"	
Endosulfan II	ND	2.00	"	"	"	"	"	"	
Endosulfan sulfate	ND	2.00	"	"	"	"	"	"	
Endrin	ND	2.00	"	"	"	"	"	"	
Endrin aldehyde	ND	2.00	"	"	"	"	"	"	
Endrin ketone	ND	2.00	"	"	"	"	"	"	
Heptachlor	ND	2.00	"	"	"	"	"	"	
Heptachlor epoxide	ND	2.00	"	"	"	"	"	"	
Methoxychlor	ND	5.00	"	"	"	"	"	"	
Toxaphene	ND	25.0	"	"	"	"	"	"	

Surrogate: TCMX

66 %

26-146

"

"

"

"

**OR-2-6''-BGS (14D0509-03) Soil    Sampled: 04/17/14 10:55    Received: 04/17/14 14:35**

Aldrin	ND	2.00	ug/kg	1	4041826	04/18/14	04/22/14	EPA 8081	
alpha-BHC	ND	2.00	"	"	"	"	"	"	
beta-BHC	ND	2.00	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	2.00	"	"	"	"	"	"	
delta-BHC	ND	2.00	"	"	"	"	"	"	
alpha-Chlordane	ND	5.00	"	"	"	"	"	"	
gamma-Chlordane	ND	5.00	"	"	"	"	"	"	
Chlordane (Total)	ND	5.00	"	"	"	"	"	"	
4,4'-DDD	ND	2.00	"	"	"	"	"	"	
4,4'-DDE	ND	2.00	"	"	"	"	"	"	
4,4'-DDT	ND	2.00	"	"	"	"	"	"	
Dieldrin	ND	2.00	"	"	"	"	"	"	
Endosulfan I	ND	2.00	"	"	"	"	"	"	
Endosulfan II	ND	2.00	"	"	"	"	"	"	
Endosulfan sulfate	ND	2.00	"	"	"	"	"	"	
Endrin	ND	2.00	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organochlorine Pesticides by EPA Method 8081B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OR-2-6''-BGS (14D0509-03) Soil    Sampled: 04/17/14 10:55    Received: 04/17/14 14:35</b>									
Endrin aldehyde	ND	2.00	ug/kg	1	4041826	04/18/14	04/22/14	EPA 8081	
Endrin ketone	ND	2.00	"	"	"	"	"	"	
Heptachlor	ND	2.00	"	"	"	"	"	"	
Heptachlor epoxide	ND	2.00	"	"	"	"	"	"	
Methoxychlor	ND	5.00	"	"	"	"	"	"	
Toxaphene	ND	25.0	"	"	"	"	"	"	
<i>Surrogate: TCMX</i>		77 %	26-146		"	"	"	"	
<b>OR-3-6''-BGS (14D0509-05) Soil    Sampled: 04/17/14 11:02    Received: 04/17/14 14:35</b>									
Aldrin	ND	2.00	ug/kg	1	4041826	04/18/14	04/22/14	EPA 8081	
alpha-BHC	ND	2.00	"	"	"	"	"	"	
beta-BHC	ND	2.00	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	2.00	"	"	"	"	"	"	
delta-BHC	ND	2.00	"	"	"	"	"	"	
alpha-Chlordane	ND	5.00	"	"	"	"	"	"	
gamma-Chlordane	ND	5.00	"	"	"	"	"	"	
Chlordane (Total)	ND	5.00	"	"	"	"	"	"	
4,4'-DDD	ND	2.00	"	"	"	"	"	"	
4,4'-DDE	ND	2.00	"	"	"	"	"	"	
4,4'-DDT	ND	2.00	"	"	"	"	"	"	
Dieldrin	ND	2.00	"	"	"	"	"	"	
Endosulfan I	ND	2.00	"	"	"	"	"	"	
Endosulfan II	ND	2.00	"	"	"	"	"	"	
Endosulfan sulfate	ND	2.00	"	"	"	"	"	"	
Endrin	ND	2.00	"	"	"	"	"	"	
Endrin aldehyde	ND	2.00	"	"	"	"	"	"	
Endrin ketone	ND	2.00	"	"	"	"	"	"	
Heptachlor	ND	2.00	"	"	"	"	"	"	
Heptachlor epoxide	ND	2.00	"	"	"	"	"	"	
Methoxychlor	ND	5.00	"	"	"	"	"	"	
Toxaphene	ND	25.0	"	"	"	"	"	"	
<i>Surrogate: TCMX</i>		69 %	26-146		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Polychlorinated Biphenyls by EPA Method 8082**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-4-5'-BGS (14D0509-07) Soil Sampled: 04/17/14 10:30 Received: 04/17/14 14:35</b>									
Aroclor 1016	ND	20.0	ug/kg	1	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	20.0	"	"	"	"	"	"	
Aroclor 1232	ND	20.0	"	"	"	"	"	"	
Aroclor 1242	ND	20.0	"	"	"	"	"	"	
Aroclor 1248	ND	20.0	"	"	"	"	"	"	
Aroclor 1254	ND	20.0	"	"	"	"	"	"	
Aroclor 1260	ND	20.0	"	"	"	"	"	"	
Surrogate: TCMX		82 %	26-146		"	"	"	"	
<b>OW-5-5'-BGS (14D0509-08) Soil Sampled: 04/17/14 10:40 Received: 04/17/14 14:35</b>									
Aroclor 1016	ND	20.0	ug/kg	1	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	20.0	"	"	"	"	"	"	
Aroclor 1232	ND	20.0	"	"	"	"	"	"	
Aroclor 1242	ND	20.0	"	"	"	"	"	"	
Aroclor 1248	ND	20.0	"	"	"	"	"	"	
Aroclor 1254	ND	20.0	"	"	"	"	"	"	
Aroclor 1260	ND	20.0	"	"	"	"	"	"	
Surrogate: TCMX		90 %	26-146		"	"	"	"	
<b>OW-6-5'-BGS (14D0509-09) Soil Sampled: 04/17/14 09:45 Received: 04/17/14 14:35</b>									
Aroclor 1016	ND	20.0	ug/kg	1	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	20.0	"	"	"	"	"	"	
Aroclor 1232	ND	20.0	"	"	"	"	"	"	
Aroclor 1242	ND	20.0	"	"	"	"	"	"	
Aroclor 1248	ND	20.0	"	"	"	"	"	"	
Aroclor 1254	ND	20.0	"	"	"	"	"	"	
Aroclor 1260	ND	20.0	"	"	"	"	"	"	
Surrogate: TCMX		95 %	26-146		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Polychlorinated Biphenyls by EPA Method 8082**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**OW-7-5'-BGS (14D0509-11) Soil**    **Sampled: 04/17/14 10:15**    **Received: 04/17/14 14:35**

Aroclor 1016	ND	20.0	ug/kg	1	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	20.0	"	"	"	"	"	"	
Aroclor 1232	ND	20.0	"	"	"	"	"	"	
Aroclor 1242	ND	20.0	"	"	"	"	"	"	
Aroclor 1248	ND	20.0	"	"	"	"	"	"	
Aroclor 1254	ND	20.0	"	"	"	"	"	"	
Aroclor 1260	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: TCMX</i>		106 %	26-146		"	"	"	"	

**OW-8-5'-BGS (14D0509-13) Soil**    **Sampled: 04/17/14 08:30**    **Received: 04/17/14 14:35**

**R-06**

Aroclor 1016	ND	100	ug/kg	5	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	100	"	"	"	"	"	"	
Aroclor 1232	ND	100	"	"	"	"	"	"	
Aroclor 1242	ND	100	"	"	"	"	"	"	
Aroclor 1248	ND	100	"	"	"	"	"	"	
Aroclor 1254	ND	100	"	"	"	"	"	"	
Aroclor 1260	ND	100	"	"	"	"	"	"	
<i>Surrogate: TCMX</i>		104 %	26-146		"	"	"	"	

**OW-9-5'-BGS (14D0509-16) Soil**    **Sampled: 04/17/14 09:25**    **Received: 04/17/14 14:35**

Aroclor 1016	ND	20.0	ug/kg	1	4041649	04/17/14	04/22/14	EPA 8082	
Aroclor 1221	ND	20.0	"	"	"	"	"	"	
Aroclor 1232	ND	20.0	"	"	"	"	"	"	
Aroclor 1242	ND	20.0	"	"	"	"	"	"	
Aroclor 1248	ND	20.0	"	"	"	"	"	"	
Aroclor 1254	ND	20.0	"	"	"	"	"	"	
Aroclor 1260	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: TCMX</i>		104 %	26-146		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Organophosphorus Pesticides by EPA Method 8141A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OR-1-6''-BGS (14D0509-01) Soil    Sampled: 04/17/14 10:45    Received: 04/17/14 14:35</b>									
Azinphos methyl	ND	16.5	ug/kg	1	4041830	04/18/14	04/22/14	EPA 8141A	
Bolstar	ND	6.60	"	"	"	"	"	"	
Chlorpyrifos	ND	3.30	"	"	"	"	"	"	
Coumaphos	ND	16.5	"	"	"	"	"	"	
Demeton-o	ND	16.5	"	"	"	"	"	"	
Demeton-s	ND	16.5	"	"	"	"	"	"	
Diazinon	ND	3.30	"	"	"	"	"	"	
Dichlorvos	ND	6.60	"	"	"	"	"	"	
Disulfoton	ND	6.60	"	"	"	"	"	"	
Ethoprop	ND	3.30	"	"	"	"	"	"	
Fensulfothion	ND	16.5	"	"	"	"	"	"	
Fenthion	ND	3.30	"	"	"	"	"	"	
Malathion	ND	3.30	"	"	"	"	"	"	
Mevinphos	ND	16.5	"	"	"	"	"	"	
Methyl parathion	ND	6.60	"	"	"	"	"	"	
Phorate	ND	3.30	"	"	"	"	"	"	
Ronnel	ND	16.5	"	"	"	"	"	"	
Tetrachlorvinphos	ND	16.5	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	16.5	"	"	"	"	"	"	
Trichlorinate	ND	3.30	"	"	"	"	"	"	

Surrogate: Triphenyl phosphate

75 %      60-130

"      "      "      "

Surrogate: Tributylphosphate

65 %      60-130

"      "      "      "

### OR-2-6''-BGS (14D0509-03) Soil    Sampled: 04/17/14 10:55    Received: 04/17/14 14:35

Azinphos methyl	ND	16.5	ug/kg	1	4041830	04/18/14	04/22/14	EPA 8141A	
Bolstar	ND	6.60	"	"	"	"	"	"	
Chlorpyrifos	ND	3.30	"	"	"	"	"	"	
Coumaphos	ND	16.5	"	"	"	"	"	"	
Demeton-o	ND	16.5	"	"	"	"	"	"	
Demeton-s	ND	16.5	"	"	"	"	"	"	
Diazinon	ND	3.30	"	"	"	"	"	"	
Dichlorvos	ND	6.60	"	"	"	"	"	"	
Disulfoton	ND	6.60	"	"	"	"	"	"	
Ethoprop	ND	3.30	"	"	"	"	"	"	
Fensulfothion	ND	16.5	"	"	"	"	"	"	
Fenthion	ND	3.30	"	"	"	"	"	"	
Malathion	ND	3.30	"	"	"	"	"	"	
Mevinphos	ND	16.5	"	"	"	"	"	"	
Methyl parathion	ND	6.60	"	"	"	"	"	"	
Phorate	ND	3.30	"	"	"	"	"	"	
Ronnel	ND	16.5	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organophosphorus Pesticides by EPA Method 8141A**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OR-2-6''-BGS (14D0509-03) Soil    Sampled: 04/17/14 10:55    Received: 04/17/14 14:35</b>									
Tetrachlorvinphos	ND	16.5	ug/kg	1	4041830	04/18/14	04/22/14	EPA 8141A	
Tokuthion (Prothiofos)	ND	16.5	"	"	"	"	"	"	
Trichlorinate	ND	3.30	"	"	"	"	"	"	
<i>Surrogate: Triphenyl phosphate</i>		73 %	60-130		"	"	"	"	
<i>Surrogate: Tributylphosphate</i>		61 %	60-130		"	"	"	"	
<b>OR-3-6''-BGS (14D0509-05) Soil    Sampled: 04/17/14 11:02    Received: 04/17/14 14:35</b>									
Azinphos methyl	ND	16.5	ug/kg	1	4041830	04/18/14	04/22/14	EPA 8141A	
Bolstar	ND	6.60	"	"	"	"	"	"	
Chlorpyrifos	ND	3.30	"	"	"	"	"	"	
Coumaphos	ND	16.5	"	"	"	"	"	"	
Demeton-o	ND	16.5	"	"	"	"	"	"	
Demeton-s	ND	16.5	"	"	"	"	"	"	
Diazinon	ND	3.30	"	"	"	"	"	"	
Dichlorvos	ND	6.60	"	"	"	"	"	"	
Disulfoton	ND	6.60	"	"	"	"	"	"	
Ethoprop	ND	3.30	"	"	"	"	"	"	
Fensulfothion	ND	16.5	"	"	"	"	"	"	
Fenthion	ND	3.30	"	"	"	"	"	"	
Malathion	ND	3.30	"	"	"	"	"	"	
Mevinphos	ND	16.5	"	"	"	"	"	"	
Methyl parathion	ND	6.60	"	"	"	"	"	"	
Phorate	ND	3.30	"	"	"	"	"	"	
Ronnel	ND	16.5	"	"	"	"	"	"	
Tetrachlorvinphos	ND	16.5	"	"	"	"	"	"	
Tokuthion (Prothiofos)	ND	16.5	"	"	"	"	"	"	
Trichlorinate	ND	3.30	"	"	"	"	"	"	
<i>Surrogate: Triphenyl phosphate</i>		73 %	60-130		"	"	"	"	
<i>Surrogate: Tributylphosphate</i>		71 %	60-130		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-4-5'-BGS (14D0509-07) Soil Sampled: 04/17/14 10:30 Received: 04/17/14 14:35</b>									
Acetone	ND	50.0	ug/kg	1	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	50.0	"	"	"	"	"	"	
Acrolein	ND	100	"	"	"	"	"	"	
Acrylonitrile	ND	25.0	"	"	"	"	"	"	
Allyl chloride	ND	5.00	"	"	"	"	"	"	
Benzene	ND	2.00	"	"	"	"	"	"	
Bromobenzene	ND	2.00	"	"	"	"	"	"	
Bromochloromethane	ND	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	2.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	50.0	"	"	"	"	"	"	
n-Butylbenzene	ND	2.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon disulfide	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	2.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	2.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	2.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.00	"	"	"	"	"	"	
Dibromomethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-4-5'-BGS (14D0509-07) Soil    Sampled: 04/17/14 10:30    Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	2.00	ug/kg	1	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	2.00	"	"	"	"	"	"	
Diethyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.00	"	"	"	"	"	"	
Hexachloroethane	ND	2.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Iodomethane	ND	2.00	"	"	"	"	"	"	
Isopropylbenzene	ND	2.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
n-Propylbenzene	ND	2.00	"	"	"	"	"	"	
Styrene	ND	2.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"	
Tetrachloroethene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"	
Trichloroethene	ND	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	"	
Vinyl acetate	ND	10.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.00	"	"	"	"	"	"	
m,p-Xylene	ND	5.00	"	"	"	"	"	"	
o-Xylene	ND	2.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>115 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>91 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>98 %</i>		<i>80-121</i>					

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-5-5'-BGS (14D0509-08) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 10:40 Received: 04/17/14 14:35</b>									
Acetone	ND	200	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	200	"	"	"	"	"	"	
Acrolein	ND	400	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
Allyl chloride	ND	20.0	"	"	"	"	"	"	
Benzene	ND	8.00	"	"	"	"	"	"	
Bromobenzene	ND	8.00	"	"	"	"	"	"	
Bromochloromethane	ND	8.00	"	"	"	"	"	"	
Bromodichloromethane	ND	8.00	"	"	"	"	"	"	
Bromoform	ND	8.00	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	ND	200	"	"	"	"	"	"	
n-Butylbenzene	ND	8.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.00	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	8.00	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.00	"	"	"	"	"	"	
Dibromomethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20.0	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-5-5'-BGS (14D0509-08) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 10:40 Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	8.00	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	8.00	"	"	"	"	"	"	
Diethyl ether	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.00	"	"	"	"	"	"	
Hexachloroethane	ND	8.00	"	"	"	"	"	"	
2-Hexanone	ND	40.0	"	"	"	"	"	"	
Iodomethane	ND	8.00	"	"	"	"	"	"	
Isopropylbenzene	ND	8.00	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.00	"	"	"	"	"	"	
Styrene	ND	8.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.00	"	"	"	"	"	"	
Toluene	ND	8.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	8.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	40.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
Vinyl acetate	ND	40.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
m,p-Xylene	ND	20.0	"	"	"	"	"	"	
o-Xylene	ND	8.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>110 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>98 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>102 %</i>		<i>80-121</i>					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-6-5'-BGS (14D0509-09) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 09:45 Received: 04/17/14 14:35</b>									
Acetone	ND	200	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	200	"	"	"	"	"	"	
Acrolein	ND	400	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
Allyl chloride	ND	20.0	"	"	"	"	"	"	
Benzene	ND	8.00	"	"	"	"	"	"	
Bromobenzene	ND	8.00	"	"	"	"	"	"	
Bromochloromethane	ND	8.00	"	"	"	"	"	"	
Bromodichloromethane	ND	8.00	"	"	"	"	"	"	
Bromoform	ND	8.00	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	ND	200	"	"	"	"	"	"	
n-Butylbenzene	ND	8.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.00	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	8.00	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.00	"	"	"	"	"	"	
Dibromomethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-6-5'-BGS (14D0509-09) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 09:45 Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	8.00	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	8.00	"	"	"	"	"	"	
Diethyl ether	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.00	"	"	"	"	"	"	
Hexachloroethane	ND	8.00	"	"	"	"	"	"	
2-Hexanone	ND	40.0	"	"	"	"	"	"	
Iodomethane	ND	8.00	"	"	"	"	"	"	
Isopropylbenzene	ND	8.00	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.00	"	"	"	"	"	"	
Styrene	ND	8.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.00	"	"	"	"	"	"	
Toluene	ND	8.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	8.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	40.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
Vinyl acetate	ND	40.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
m,p-Xylene	ND	20.0	"	"	"	"	"	"	
o-Xylene	ND	8.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>124 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>83 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>94 %</i>		<i>80-121</i>					

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-7-5'-BGS (14D0509-11) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 10:15 Received: 04/17/14 14:35</b>									
Acetone	ND	200	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	200	"	"	"	"	"	"	
Acrolein	ND	400	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
Allyl chloride	ND	20.0	"	"	"	"	"	"	
Benzene	ND	8.00	"	"	"	"	"	"	
Bromobenzene	ND	8.00	"	"	"	"	"	"	
Bromochloromethane	ND	8.00	"	"	"	"	"	"	
Bromodichloromethane	ND	8.00	"	"	"	"	"	"	
Bromoform	ND	8.00	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	ND	200	"	"	"	"	"	"	
n-Butylbenzene	ND	8.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.00	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	8.00	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.00	"	"	"	"	"	"	
Dibromomethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20.0	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-7-5'-BGS (14D0509-11) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 10:15 Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	8.00	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	8.00	"	"	"	"	"	"	
Diethyl ether	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.00	"	"	"	"	"	"	
Hexachloroethane	ND	8.00	"	"	"	"	"	"	
2-Hexanone	ND	40.0	"	"	"	"	"	"	
Iodomethane	ND	8.00	"	"	"	"	"	"	
Isopropylbenzene	ND	8.00	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.00	"	"	"	"	"	"	
Styrene	ND	8.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.00	"	"	"	"	"	"	
Toluene	ND	8.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	8.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	40.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
Vinyl acetate	ND	40.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
m,p-Xylene	ND	20.0	"	"	"	"	"	"	
o-Xylene	ND	8.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>116 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>94 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>99 %</i>		<i>80-121</i>					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-8-5'-BGS (14D0509-13) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 08:30 Received: 04/17/14 14:35</b>									
Acetone	ND	200	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	200	"	"	"	"	"	"	
Acrolein	ND	400	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
Allyl chloride	ND	20.0	"	"	"	"	"	"	
Benzene	ND	8.00	"	"	"	"	"	"	
Bromobenzene	ND	8.00	"	"	"	"	"	"	
Bromochloromethane	ND	8.00	"	"	"	"	"	"	
Bromodichloromethane	ND	8.00	"	"	"	"	"	"	
Bromoform	ND	8.00	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	ND	200	"	"	"	"	"	"	
n-Butylbenzene	ND	8.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.00	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	8.00	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.00	"	"	"	"	"	"	
Dibromomethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20.0	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-8-5'-BGS (14D0509-13) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 08:30 Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	8.00	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	8.00	"	"	"	"	"	"	
Diethyl ether	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.00	"	"	"	"	"	"	
Hexachloroethane	ND	8.00	"	"	"	"	"	"	
2-Hexanone	ND	40.0	"	"	"	"	"	"	
Iodomethane	ND	8.00	"	"	"	"	"	"	
Isopropylbenzene	ND	8.00	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.00	"	"	"	"	"	"	
Styrene	ND	8.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.00	"	"	"	"	"	"	
Toluene	ND	8.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	8.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	40.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
Vinyl acetate	ND	40.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
m,p-Xylene	ND	20.0	"	"	"	"	"	"	
o-Xylene	ND	8.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>133 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>99 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>		<i>80-121</i>					

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-9-5'-BGS (14D0509-16) Soil    Sampled: 04/17/14 09:25    Received: 04/17/14 14:35</b>									<b>R-06</b>
Acetone	ND	200	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
Acetonitrile	ND	200	"	"	"	"	"	"	
Acrolein	ND	400	"	"	"	"	"	"	
Acrylonitrile	ND	100	"	"	"	"	"	"	
Allyl chloride	ND	20.0	"	"	"	"	"	"	
Benzene	ND	8.00	"	"	"	"	"	"	
Bromobenzene	ND	8.00	"	"	"	"	"	"	
Bromochloromethane	ND	8.00	"	"	"	"	"	"	
Bromodichloromethane	ND	8.00	"	"	"	"	"	"	
Bromoform	ND	8.00	"	"	"	"	"	"	
Bromomethane	ND	20.0	"	"	"	"	"	"	
2-Butanone	ND	200	"	"	"	"	"	"	
n-Butylbenzene	ND	8.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	20.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	20.0	"	"	"	"	"	"	
Carbon disulfide	ND	20.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	20.0	"	"	"	"	"	"	
Chlorobenzene	ND	8.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	8.00	"	"	"	"	"	"	
Chloroethane	ND	20.0	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	20.0	"	"	"	"	"	"	
Chloroform	ND	8.00	"	"	"	"	"	"	
Chloromethane	ND	20.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	20.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	20.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	8.00	"	"	"	"	"	"	
Dibromomethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	8.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	20.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	8.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	8.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	20.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	20.0	"	"	"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-9-5'-BGS (14D0509-16) Soil</b>									<b>R-06</b>
<b>Sampled: 04/17/14 09:25 Received: 04/17/14 14:35</b>									
cis-1,3-Dichloropropene	ND	8.00	ug/kg	4	4041811	04/18/14	04/18/14	EPA 8260B	
trans-1,3-Dichloropropene	ND	8.00	"	"	"	"	"	"	
Diethyl ether	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	8.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	8.00	"	"	"	"	"	"	
Hexachloroethane	ND	8.00	"	"	"	"	"	"	
2-Hexanone	ND	40.0	"	"	"	"	"	"	
Iodomethane	ND	8.00	"	"	"	"	"	"	
Isopropylbenzene	ND	8.00	"	"	"	"	"	"	
Methylene chloride	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	8.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
n-Propylbenzene	ND	8.00	"	"	"	"	"	"	
Styrene	ND	8.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	20.0	"	"	"	"	"	"	
Tetrachloroethene	ND	8.00	"	"	"	"	"	"	
Toluene	ND	8.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	8.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	8.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	20.0	"	"	"	"	"	"	
Trichloroethene	ND	8.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	20.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	20.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	40.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	8.00	"	"	"	"	"	"	
Vinyl acetate	ND	40.0	"	"	"	"	"	"	
Vinyl chloride	ND	20.0	"	"	"	"	"	"	
m,p-Xylene	ND	20.0	"	"	"	"	"	"	
o-Xylene	ND	8.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>119 %</i>		<i>61-141</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>91 %</i>		<i>70-124</i>					
<i>Surrogate: Toluene-d8</i>		<i>99 %</i>		<i>80-121</i>					

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-4-5'-BGS (14D0509-07) Soil    Sampled: 04/17/14 10:30    Received: 04/17/14 14:35</b>									
Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/18/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		52 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		51 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		72 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		70 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		52 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-dl4</i>		48 %	18-137		"	"	"	"	
<b>OW-5-5'-BGS (14D0509-08) Soil    Sampled: 04/17/14 10:40    Received: 04/17/14 14:35</b>									
Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/18/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		47 %	25-121		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-5-5'-BGS (14D0509-08) Soil    Sampled: 04/17/14 10:40    Received: 04/17/14 14:35</b>									
Surrogate: Phenol-d6		43 %	24-113		4041652	04/18/14	04/18/14	EPA 8270C	
Surrogate: Nitrobenzene-d5		58 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		57 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		46 %	19-122		"	"	"	"	
Surrogate: Terphenyl-dl4		42 %	18-137		"	"	"	"	
<b>OW-6-5'-BGS (14D0509-09) Soil    Sampled: 04/17/14 09:45    Received: 04/17/14 14:35</b>									
Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/19/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		45 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		48 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		53 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		56 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		38 %	19-122		"	"	"	"	
Surrogate: Terphenyl-dl4		56 %	18-137		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-7-5'-BGS (14D0509-11) Soil Sampled: 04/17/14 10:15 Received: 04/17/14 14:35</b>									
Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/19/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		44 %	25-121		"	"	"	"	
<i>Surrogate: Phenol-d6</i>		46 %	24-113		"	"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>		78 %	23-120		"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		70 %	30-115		"	"	"	"	
<i>Surrogate: 2,4,6-Tribromophenol</i>		46 %	19-122		"	"	"	"	
<i>Surrogate: Terphenyl-dl4</i>		52 %	18-137		"	"	"	"	

**OW-8-5'-BGS (14D0509-13) Soil Sampled: 04/17/14 08:30 Received: 04/17/14 14:35**

Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/19/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		65 %	25-121		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-8-5'-BGS (14D0509-13) Soil    Sampled: 04/17/14 08:30    Received: 04/17/14 14:35</b>									
Surrogate: Phenol-d6		63 %	24-113		4041652	04/18/14	04/19/14	EPA 8270C	
Surrogate: Nitrobenzene-d5		55 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		61 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		52 %	19-122		"	"	"	"	
Surrogate: Terphenyl-dl4		54 %	18-137		"	"	"	"	
<b>OW-9-5'-BGS (14D0509-16) Soil    Sampled: 04/17/14 09:25    Received: 04/17/14 14:35</b>									
Acenaphthene	ND	20.0	ug/kg	1	4041652	04/18/14	04/19/14	EPA 8270C	
Acenaphthylene	ND	20.0	"	"	"	"	"	"	
Anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	20.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	40.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	20.0	"	"	"	"	"	"	
Chrysene	ND	20.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	40.0	"	"	"	"	"	"	
Fluoranthene	ND	20.0	"	"	"	"	"	"	
Fluorene	ND	20.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	30.0	"	"	"	"	"	"	
Naphthalene	ND	20.0	"	"	"	"	"	"	
Phenanthrene	ND	20.0	"	"	"	"	"	"	
Pyrene	ND	20.0	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		47 %	25-121		"	"	"	"	
Surrogate: Phenol-d6		45 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		46 %	23-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		50 %	30-115		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		41 %	19-122		"	"	"	"	
Surrogate: Terphenyl-dl4		49 %	18-137		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**TPH by EPA 8015B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-4-5'-BGS (14D0509-07) Soil Sampled: 04/17/14 10:30 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
Surrogate: 4-Bromofluorobenzene		109 %	60-160		"	"	"	"	
<b>OW-5-5'-BGS (14D0509-08) Soil Sampled: 04/17/14 10:40 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
Surrogate: 4-Bromofluorobenzene		113 %	60-160		"	"	"	"	
<b>OW-6-5'-BGS (14D0509-09) Soil Sampled: 04/17/14 09:45 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
Surrogate: 4-Bromofluorobenzene		109 %	60-160		"	"	"	"	
<b>OW-7-5'-BGS (14D0509-11) Soil Sampled: 04/17/14 10:15 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
Surrogate: 4-Bromofluorobenzene		112 %	60-160		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**TPH by EPA 8015B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>OW-8-5'-BGS (14D0509-13) Soil Sampled: 04/17/14 08:30 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	60-160		"	"	"	"	
<b>OW-9-5'-BGS (14D0509-16) Soil Sampled: 04/17/14 09:25 Received: 04/17/14 14:35</b>									
Diesel (C10-C28)	ND	10.0	mg/kg	1	4041810	04/18/14	04/18/14	EPA 8015B	
Extended Range HC (C28-C40)	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86 %	75-129		"	"	"	"	
Gasoline (C6-C10)	ND	0.400	"	4	4042129	04/21/14	04/22/14	"	R-06
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	60-160		"	"	"	"	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041711**

**Blank (4041711-BLK1)** Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	ND	1.00	mg/kg							
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**LCS (4041711-BS1)** Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	98.7	1.00	mg/kg	100		99	75-125			
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**LCS Dup (4041711-BSD1)** Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	100	1.00	mg/kg	100		100	75-125	1	20	
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**Duplicate (4041711-DUP1)** Source: 14D0446-01 Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	ND	1.00	mg/kg		1.62				20	
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**Matrix Spike (4041711-MS1)** Source: 14D0446-01 Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	83.6	1.00	mg/kg	89.3	1.62	92	75-125			
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**Matrix Spike Dup (4041711-MSD1)** Source: 14D0446-01 Prepared: 04/17/14 Analyzed: 04/18/14

Arsenic	88.9	1.00	mg/kg	94.3	1.62	93	75-125	6	20	
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**Batch 4041824**

**Blank (4041824-BLK1)** Prepared & Analyzed: 04/18/14

Mercury	ND	0.05	mg/kg							
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**LCS (4041824-BS1)** Prepared & Analyzed: 04/18/14

Mercury	0.16	0.05	mg/kg	0.167		95	75-125			
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**LCS Dup (4041824-BSD1)** Prepared & Analyzed: 04/18/14

Mercury	0.16	0.05	mg/kg	0.167		96	75-125	0.7	20	
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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041824**

<b>Duplicate (4041824-DUP1)</b>		<b>Source: 14D0415-01</b>		<b>Prepared &amp; Analyzed: 04/18/14</b>						
Mercury	0.02	0.05	mg/kg	ND					20	
<b>Matrix Spike (4041824-MS1)</b>		<b>Source: 14D0415-01</b>		<b>Prepared &amp; Analyzed: 04/18/14</b>						
Mercury	0.34	0.05	mg/kg	0.345	ND	99	75-125			
<b>Matrix Spike Dup (4041824-MSD1)</b>		<b>Source: 14D0415-01</b>		<b>Prepared &amp; Analyzed: 04/18/14</b>						
Mercury	0.37	0.05	mg/kg	0.385	ND	96	75-125	8	20	

**Batch 4042128**

<b>Blank (4042128-BLK1)</b>		<b>Prepared: 04/21/14 Analyzed: 04/22/14</b>								
Antimony	ND	10.0	mg/kg							
Arsenic	ND	1.00	"							
Barium	ND	1.00	"							
Beryllium	ND	1.00	"							
Cadmium	ND	1.00	"							
Chromium	ND	1.00	"							
Cobalt	ND	1.00	"							
Copper	ND	1.00	"							
Lead	ND	1.00	"							
Molybdenum	ND	5.00	"							
Nickel	ND	1.00	"							
Selenium	ND	1.00	"							
Silver	ND	0.50	"							
Thallium	ND	1.00	"							
Vanadium	ND	1.00	"							
Zinc	ND	1.00	"							

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4042128**

**LCS (4042128-BS1)**

Prepared: 04/21/14 Analyzed: 04/22/14

Antimony	98.6	10.0	mg/kg	100	99	75-125			
Arsenic	98.4	1.00	"	100	98	75-125			
Barium	102	1.00	"	100	102	75-125			
Beryllium	102	1.00	"	100	102	75-125			
Cadmium	99.5	1.00	"	100	99	75-125			
Chromium	102	1.00	"	100	102	75-125			
Cobalt	99.5	1.00	"	100	100	75-125			
Copper	103	1.00	"	100	103	75-125			
Lead	101	1.00	"	100	101	75-125			
Molybdenum	99.8	5.00	"	100	100	75-125			
Nickel	101	1.00	"	100	101	75-125			
Selenium	92.4	1.00	"	100	92	75-125			
Silver	51.0	0.50	"	50.0	102	75-125			
Thallium	99.7	1.00	"	100	100	75-125			
Vanadium	102	1.00	"	100	102	75-125			
Zinc	99.6	1.00	"	100	100	75-125			

**LCS Dup (4042128-BSD1)**

Prepared: 04/21/14 Analyzed: 04/22/14

Antimony	99.7	10.0	mg/kg	100	100	75-125	1	20	
Arsenic	99.5	1.00	"	100	100	75-125	1	20	
Barium	103	1.00	"	100	103	75-125	0.8	20	
Beryllium	103	1.00	"	100	103	75-125	0.9	20	
Cadmium	100	1.00	"	100	100	75-125	0.7	20	
Chromium	103	1.00	"	100	103	75-125	0.8	20	
Cobalt	100	1.00	"	100	100	75-125	0.7	20	
Copper	104	1.00	"	100	104	75-125	0.8	20	
Lead	102	1.00	"	100	102	75-125	0.8	20	
Molybdenum	101	5.00	"	100	101	75-125	1	20	
Nickel	102	1.00	"	100	102	75-125	0.9	20	
Selenium	93.3	1.00	"	100	93	75-125	1	20	
Silver	51.3	0.50	"	50.0	103	75-125	0.7	20	
Thallium	101	1.00	"	100	101	75-125	0.9	20	
Vanadium	103	1.00	"	100	103	75-125	0.9	20	
Zinc	100	1.00	"	100	100	75-125	0.7	20	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4042128**

<b>Duplicate (4042128-DUP1)</b>		<b>Source: 14D0509-07</b>		<b>Prepared: 04/21/14</b>		<b>Analyzed: 04/22/14</b>				
Antimony	ND	10.0	mg/kg		1.34				20	
Arsenic	ND	1.00	"		ND				20	
Barium	157	1.00	"		256			48	20	QR-02
Beryllium	ND	1.00	"		ND				20	
Cadmium	ND	1.00	"		ND				20	
Chromium	37.3	1.00	"		37.7			0.9	20	
Cobalt	23.6	1.00	"		30.7			26	20	QR-02
Copper	25.7	1.00	"		30.0			15	20	
Lead	4.73	1.00	"		5.99			23	20	QR-02
Molybdenum	ND	5.00	"		ND				20	
Nickel	19.2	1.00	"		32.6			52	20	QR-02
Selenium	ND	1.00	"		ND				20	
Silver	ND	0.50	"		ND				20	
Thallium	ND	1.00	"		ND				20	
Vanadium	104	1.00	"		117			12	20	
Zinc	65.6	1.00	"		65.3			0.5	20	

<b>Matrix Spike (4042128-MS1)</b>		<b>Source: 14D0509-07</b>		<b>Prepared: 04/21/14</b>		<b>Analyzed: 04/22/14</b>				
Antimony	25.2	10.0	mg/kg	84.7	1.34	28	75-125			QM-05
Arsenic	69.1	1.00	"	84.7	ND	82	75-125			
Barium	423	1.00	"	84.7	256	196	75-125			QM-06
Beryllium	76.0	1.00	"	84.7	ND	90	75-125			
Cadmium	70.1	1.00	"	84.7	ND	83	75-125			
Chromium	110	1.00	"	84.7	37.7	85	75-125			
Cobalt	103	1.00	"	84.7	30.7	85	75-125			
Copper	118	1.00	"	84.7	30.0	104	75-125			
Lead	77.9	1.00	"	84.7	5.99	85	75-125			
Molybdenum	65.9	5.00	"	84.7	ND	78	75-125			
Nickel	114	1.00	"	84.7	32.6	96	75-125			
Selenium	47.0	1.00	"	84.7	ND	55	75-125			QM-05
Silver	39.1	0.50	"	42.4	ND	92	75-125			
Thallium	52.0	1.00	"	84.7	ND	61	75-125			QM-05
Vanadium	199	1.00	"	84.7	117	97	75-125			
Zinc	136	1.00	"	84.7	65.3	84	75-125			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4042128**

<b>Matrix Spike Dup (4042128-MSD1)</b>	<b>Source: 14D0509-07</b>		<b>Prepared: 04/21/14</b>		<b>Analyzed: 04/22/14</b>					
Antimony	36.1	10.0	mg/kg	96.2	1.34	36	75-125	35	20	QM-05
Arsenic	80.4	1.00	"	96.2	ND	84	75-125	15	20	
Barium	238	1.00	"	96.2	256	NR	75-125	56	20	QM-06
Beryllium	89.4	1.00	"	96.2	ND	93	75-125	16	20	
Cadmium	80.8	1.00	"	96.2	ND	84	75-125	14	20	
Chromium	123	1.00	"	96.2	37.7	89	75-125	11	20	
Cobalt	104	1.00	"	96.2	30.7	76	75-125	0.7	20	
Copper	124	1.00	"	96.2	30.0	98	75-125	5	20	
Lead	86.9	1.00	"	96.2	5.99	84	75-125	11	20	
Molybdenum	77.9	5.00	"	96.2	ND	81	75-125	17	20	
Nickel	99.6	1.00	"	96.2	32.6	70	75-125	14	20	QM-06
Selenium	57.5	1.00	"	96.2	ND	60	75-125	20	20	QM-05
Silver	45.3	0.50	"	48.1	ND	94	75-125	15	20	
Thallium	64.9	1.00	"	96.2	ND	68	75-125	22	20	QM-05
Vanadium	193	1.00	"	96.2	117	79	75-125	3	20	
Zinc	147	1.00	"	96.2	65.3	85	75-125	7	20	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organochlorine Pesticides by EPA Method 8081B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041826**

**Blank (4041826-BLK1)**

Prepared: 04/18/14 Analyzed: 04/22/14

Aldrin	ND	2.00	ug/kg							
alpha-BHC	ND	2.00	"							
beta-BHC	ND	2.00	"							
gamma-BHC (Lindane)	ND	2.00	"							
delta-BHC	ND	2.00	"							
alpha-Chlordane	ND	5.00	"							
gamma-Chlordane	ND	5.00	"							
Chlordane (Total)	ND	5.00	"							
4,4'-DDD	ND	2.00	"							
4,4'-DDE	ND	2.00	"							
4,4'-DDT	ND	2.00	"							
Dieldrin	ND	2.00	"							
Endosulfan I	ND	2.00	"							
Endosulfan II	ND	2.00	"							
Endosulfan sulfate	ND	2.00	"							
Endrin	ND	2.00	"							
Endrin aldehyde	ND	2.00	"							
Endrin ketone	ND	2.00	"							
Heptachlor	ND	2.00	"							
Heptachlor epoxide	ND	2.00	"							
Methoxychlor	ND	5.00	"							
Toxaphene	ND	25.0	"							
<i>Surrogate: TCMX</i>	<i>17.4</i>		<i>"</i>	<i>16.7</i>		<i>104</i>	<i>26-146</i>			

**LCS (4041826-BS1)**

Prepared: 04/18/14 Analyzed: 04/22/14

Aldrin	16.8	2.00	ug/kg	16.7		101	42-122			
gamma-BHC (Lindane)	16.5	2.00	"	16.7		99	32-127			
4,4'-DDT	19.4	2.00	"	16.7		116	25-160			
Dieldrin	17.9	2.00	"	16.7		108	36-146			
Endrin	18.5	2.00	"	16.7		111	30-147			
Heptachlor	17.4	2.00	"	16.7		105	34-111			
<i>Surrogate: TCMX</i>	<i>18.0</i>		<i>"</i>	<i>16.7</i>		<i>108</i>	<i>26-146</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organochlorine Pesticides by EPA Method 8081B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041826**

**LCS Dup (4041826-BSD1)**

Prepared: 04/18/14 Analyzed: 04/22/14

Aldrin	16.8	2.00	ug/kg	16.7	101	42-122	0.4	30	
gamma-BHC (Lindane)	16.9	2.00	"	16.7	101	32-127	2	30	
4,4'-DDT	19.0	2.00	"	16.7	114	25-160	2	30	
Dieldrin	18.1	2.00	"	16.7	109	36-146	0.8	30	
Endrin	19.2	2.00	"	16.7	115	30-147	3	30	
Heptachlor	17.0	2.00	"	16.7	102	34-111	3	30	
<i>Surrogate: TCMX</i>	<i>16.2</i>		<i>"</i>	<i>16.7</i>	<i>97</i>	<i>26-146</i>			

**Duplicate (4041826-DUP1)**

Source: 14D0509-03

Prepared: 04/18/14 Analyzed: 04/22/14

Aldrin	ND	2.00	ug/kg		ND			30	
alpha-BHC	ND	2.00	"		ND			30	
beta-BHC	ND	2.00	"		ND			30	
gamma-BHC (Lindane)	ND	2.00	"		ND			30	
delta-BHC	ND	2.00	"		ND			30	
alpha-Chlordane	ND	5.00	"		ND			30	
gamma-Chlordane	ND	5.00	"		ND			30	
Chlordane (Total)	ND	5.00	"		ND			30	
4,4'-DDD	ND	2.00	"		ND			30	
4,4'-DDE	ND	2.00	"		ND			30	
4,4'-DDT	ND	2.00	"		ND			30	
Dieldrin	ND	2.00	"		ND			30	
Endosulfan I	ND	2.00	"		ND			30	
Endosulfan II	ND	2.00	"		ND			30	
Endosulfan sulfate	ND	2.00	"		ND			30	
Endrin	ND	2.00	"		ND			30	
Endrin aldehyde	ND	2.00	"		ND			30	
Endrin ketone	ND	2.00	"		ND			30	
Heptachlor	ND	2.00	"		ND			30	
Heptachlor epoxide	ND	2.00	"		ND			30	
Methoxychlor	ND	5.00	"		ND			30	
Toxaphene	ND	25.0	"		ND			30	
<i>Surrogate: TCMX</i>	<i>14.3</i>		<i>"</i>	<i>16.7</i>	<i>86</i>	<i>26-146</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organochlorine Pesticides by EPA Method 8081B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041826**

<b>Matrix Spike (4041826-MS1)</b>		<b>Source: 14D0509-03</b>		Prepared: 04/18/14		Analyzed: 04/22/14				
Aldrin	13.4	2.00	ug/kg	16.7	ND	80	42-122			
gamma-BHC (Lindane)	13.6	2.00	"	16.7	ND	82	32-127			
4,4'-DDT	16.9	2.00	"	16.7	ND	101	25-160			
Dieldrin	15.4	2.00	"	16.7	ND	92	36-146			
Endrin	15.3	2.00	"	16.7	ND	92	30-147			
Heptachlor	14.9	2.00	"	16.7	ND	89	34-111			
<i>Surrogate: TCMX</i>	<i>14.3</i>		<i>"</i>	<i>16.7</i>		<i>86</i>	<i>26-146</i>			

<b>Matrix Spike Dup (4041826-MSD1)</b>		<b>Source: 14D0509-03</b>		Prepared: 04/18/14		Analyzed: 04/22/14				
Aldrin	12.8	2.00	ug/kg	16.7	ND	77	42-122	4	30	
gamma-BHC (Lindane)	12.1	2.00	"	16.7	ND	72	32-127	12	30	
4,4'-DDT	15.1	2.00	"	16.7	ND	91	25-160	11	30	
Dieldrin	12.1	2.00	"	16.7	ND	72	36-146	24	30	
Endrin	13.0	2.00	"	16.7	ND	78	30-147	16	30	
Heptachlor	13.5	2.00	"	16.7	ND	81	34-111	10	30	
<i>Surrogate: TCMX</i>	<i>13.1</i>		<i>"</i>	<i>16.7</i>		<i>79</i>	<i>26-146</i>			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041649**

**Blank (4041649-BLK1)**

Prepared: 04/16/14 Analyzed: 04/17/14

Aroclor 1016	ND	20.0	ug/kg							
Aroclor 1221	ND	20.0	"							
Aroclor 1232	ND	20.0	"							
Aroclor 1242	ND	20.0	"							
Aroclor 1248	ND	20.0	"							
Aroclor 1254	ND	20.0	"							
Aroclor 1260	ND	20.0	"							
Surrogate: TCMX	17.2		"	16.7		103	26-146			

**LCS (4041649-BS1)**

Prepared: 04/16/14 Analyzed: 04/17/14

Aroclor 1260	141	20.0	ug/kg	167		85	8-127			
Surrogate: TCMX	17.1		"	16.7		103	26-146			

**LCS Dup (4041649-BSD1)**

Prepared: 04/16/14 Analyzed: 04/17/14

Aroclor 1260	142	20.0	ug/kg	167		85	8-127	0.6	30	
Surrogate: TCMX	15.9		"	16.7		95	26-146			

**Duplicate (4041649-DUP1)**

Source: 14D0415-01

Prepared: 04/16/14 Analyzed: 04/17/14

Aroclor 1016	ND	20.0	ug/kg		ND				30	
Aroclor 1221	ND	20.0	"		ND				30	
Aroclor 1232	ND	20.0	"		ND				30	
Aroclor 1242	ND	20.0	"		ND				30	
Aroclor 1248	ND	20.0	"		ND				30	
Aroclor 1254	ND	20.0	"		ND				30	
Aroclor 1260	ND	20.0	"		ND				30	
Surrogate: TCMX	12.5		"	16.7		75	26-146			

**Matrix Spike (4041649-MS1)**

Source: 14D0415-01

Prepared: 04/16/14 Analyzed: 04/17/14

Aroclor 1260	97.7	20.0	ug/kg	167	ND	59	8-127			
Surrogate: TCMX	9.72		"	16.7		58	26-146			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
Project Name: AAI-134810

EMA Log #: 14D0509

### Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041649**

Matrix Spike Dup (4041649-MSD1)	Source: 14D0415-01	Prepared: 04/16/14	Analyzed: 04/17/14							
Aroclor 1260	126	20.0	ug/kg	167	ND	76	8-127	26	30	
Surrogate: TCMX	14.6		"	16.7		87	26-146			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041830**

**Blank (4041830-BLK1)**

Prepared: 04/18/14 Analyzed: 04/21/14

Azinphos methyl	ND	16.5	ug/kg							
Bolstar	ND	6.60	"							
Chlorpyrifos	ND	3.30	"							
Coumaphos	ND	16.5	"							
Demeton-o	ND	16.5	"							
Demeton-s	ND	16.5	"							
Diazinon	ND	3.30	"							
Dichlorvos	ND	6.60	"							
Disulfoton	ND	6.60	"							
Ethoprop	ND	3.30	"							
Fensulfothion	ND	16.5	"							
Fenthion	ND	3.30	"							
Malathion	ND	3.30	"							
Mevinphos	ND	16.5	"							
Methyl parathion	ND	6.60	"							
Phorate	ND	3.30	"							
Ronnel	ND	16.5	"							
Tetrachlorvinphos	ND	16.5	"							
Tokuthion (Prothiofos)	ND	16.5	"							
Trichlorinate	ND	3.30	"							
<i>Surrogate: Triphenyl phosphate</i>	<i>10.3</i>		<i>"</i>	<i>16.7</i>		<i>62</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>10.0</i>		<i>"</i>	<i>16.7</i>		<i>60</i>	<i>60-130</i>			

**LCS (4041830-BS1)**

Prepared: 04/18/14 Analyzed: 04/21/14

Bolstar	20.7	6.60	ug/kg	33.3		62	60-130			
Diazinon	23.8	3.30	"	33.3		71	60-130			
Ethoprop	23.4	3.30	"	33.3		70	60-130			
Mevinphos	20.2	16.5	"	33.3		61	60-130			
Methyl parathion	24.0	6.60	"	33.3		72	60-130			
Phorate	24.5	3.30	"	33.3		74	60-130			
Ronnel	24.0	16.5	"	33.3		72	60-130			
Trichlorinate	22.9	3.30	"	33.3		69	60-130			
<i>Surrogate: Triphenyl phosphate</i>	<i>13.4</i>		<i>"</i>	<i>16.7</i>		<i>80</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>13.2</i>		<i>"</i>	<i>16.7</i>		<i>79</i>	<i>60-130</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Organophosphorus Pesticides by EPA Method 8141A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041830**

**LCS Dup (4041830-BSD1)**

Prepared: 04/18/14 Analyzed: 04/21/14

Bolstar	22.3	6.60	ug/kg	33.3	67	60-130	8	30	
Diazinon	23.8	3.30	"	33.3	72	60-130	0.3	30	
Ethoprop	21.1	3.30	"	33.3	63	60-130	10	30	
Mevinphos	22.5	16.5	"	33.3	68	60-130	11	30	
Methyl parathion	21.8	6.60	"	33.3	66	60-130	9	30	
Phorate	23.0	3.30	"	33.3	69	60-130	6	30	
Ronnel	20.5	16.5	"	33.3	62	60-130	16	30	
Trichlorinate	21.2	3.30	"	33.3	63	60-130	8	30	
<i>Surrogate: Triphenyl phosphate</i>	<i>11.3</i>		<i>"</i>	<i>16.7</i>	<i>68</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>11.5</i>		<i>"</i>	<i>16.7</i>	<i>69</i>	<i>60-130</i>			

**Duplicate (4041830-DUP1)**

Source: 14D0509-01

Prepared: 04/18/14 Analyzed: 04/22/14

Azinphos methyl	ND	16.5	ug/kg		ND			30	
Bolstar	ND	6.60	"		ND			30	
Chlorpyrifos	ND	3.30	"		ND			30	
Coumaphos	ND	16.5	"		ND			30	
Demeton-o	ND	16.5	"		ND			30	
Demeton-s	ND	16.5	"		ND			30	
Diazinon	ND	3.30	"		ND			30	
Dichlorvos	ND	6.60	"		ND			30	
Disulfoton	ND	6.60	"		ND			30	
Ethoprop	ND	3.30	"		ND			30	
Fensulfothion	ND	16.5	"		ND			30	
Fenthion	ND	3.30	"		ND			30	
Malathion	ND	3.30	"		ND			30	
Mevinphos	ND	16.5	"		ND			30	
Methyl parathion	ND	6.60	"		ND			30	
Phorate	ND	3.30	"		ND			30	
Ronnel	ND	16.5	"		ND			30	
Tetrachlorvinphos	ND	16.5	"		ND			30	
Tokuthion (Prothiofos)	ND	16.5	"		ND			30	
Trichlorinate	ND	3.30	"		ND			30	
<i>Surrogate: Triphenyl phosphate</i>	<i>13.8</i>		<i>"</i>	<i>16.7</i>	<i>83</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>12.5</i>		<i>"</i>	<i>16.7</i>	<i>75</i>	<i>60-130</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Organophosphorus Pesticides by EPA Method 8141A - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041830**

<b>Matrix Spike (4041830-MS1)</b>	<b>Source: 14D0509-01</b>			<b>Prepared: 04/18/14</b>		<b>Analyzed: 04/21/14</b>				
Bolstar	25.5	6.60	ug/kg	33.3	ND	77	60-130			
Diazinon	20.6	3.30	"	33.3	ND	62	60-130			
Ethoprop	20.6	3.30	"	33.3	ND	62	60-130			
Mevinphos	21.0	16.5	"	33.3	ND	63	60-130			
Methyl parathion	22.8	6.60	"	33.3	ND	68	60-130			
Phorate	27.0	3.30	"	33.3	ND	81	60-130			
Ronnel	22.0	16.5	"	33.3	ND	66	60-130			
Trichlorinate	23.0	3.30	"	33.3	ND	69	60-130			
<i>Surrogate: Triphenyl phosphate</i>	<i>13.2</i>		<i>"</i>	<i>16.7</i>		<i>79</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>10.0</i>		<i>"</i>	<i>16.7</i>		<i>60</i>	<i>60-130</i>			

<b>Matrix Spike Dup (4041830-MSD1)</b>	<b>Source: 14D0509-01</b>			<b>Prepared: 04/18/14</b>		<b>Analyzed: 04/22/14</b>				
Bolstar	25.1	6.60	ug/kg	33.3	ND	75	60-130	2	30	
Diazinon	22.6	3.30	"	33.3	ND	68	60-130	9	30	
Ethoprop	23.5	3.30	"	33.3	ND	71	60-130	14	30	
Mevinphos	20.2	16.5	"	33.3	ND	61	60-130	4	30	
Methyl parathion	21.3	6.60	"	33.3	ND	64	60-130	7	30	
Phorate	21.3	3.30	"	33.3	ND	64	60-130	24	30	
Ronnel	21.6	16.5	"	33.3	ND	65	60-130	2	30	
Trichlorinate	20.8	3.30	"	33.3	ND	62	60-130	10	30	
<i>Surrogate: Triphenyl phosphate</i>	<i>12.1</i>		<i>"</i>	<i>16.7</i>		<i>73</i>	<i>60-130</i>			
<i>Surrogate: Tributylphosphate</i>	<i>10.8</i>		<i>"</i>	<i>16.7</i>		<i>65</i>	<i>60-130</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

**Blank (4041811-BLK1)**

Prepared & Analyzed: 04/18/14

Acetone	ND	50.0	ug/kg							
Acetonitrile	ND	50.0	"							
Acrolein	ND	100	"							
Acrylonitrile	ND	25.0	"							
Allyl chloride	ND	5.00	"							
Benzene	ND	2.00	"							
Bromobenzene	ND	2.00	"							
Bromochloromethane	ND	2.00	"							
Bromodichloromethane	ND	2.00	"							
Bromoform	ND	2.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	50.0	"							
n-Butylbenzene	ND	2.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon disulfide	ND	5.00	"							
Carbon tetrachloride	ND	5.00	"							
Chlorobenzene	ND	2.00	"							
Chlorodibromomethane	ND	2.00	"							
Chloroethane	ND	5.00	"							
2-Chloroethylvinyl ether	ND	5.00	"							
Chloroform	ND	2.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	5.00	"							
1,2-Dibromoethane (EDB)	ND	2.00	"							
Dibromomethane	ND	2.00	"							
1,2-Dichlorobenzene	ND	2.00	"							
1,3-Dichlorobenzene	ND	2.00	"							
1,4-Dichlorobenzene	ND	2.00	"							
trans-1,4-Dichloro-2-butene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	2.00	"							
1,2-Dichloroethane	ND	2.00	"							
1,1-Dichloroethene	ND	2.00	"							
cis-1,2-Dichloroethene	ND	2.00	"							

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

**Blank (4041811-BLK1)**

Prepared & Analyzed: 04/18/14

trans-1,2-Dichloroethene	ND	2.00	ug/kg
1,2-Dichloropropane	ND	2.00	"
1,3-Dichloropropane	ND	2.00	"
2,2-Dichloropropane	ND	5.00	"
1,1-Dichloropropene	ND	5.00	"
cis-1,3-Dichloropropene	ND	2.00	"
trans-1,3-Dichloropropene	ND	2.00	"
Diethyl ether	ND	5.00	"
Ethylbenzene	ND	2.00	"
Hexachlorobutadiene	ND	2.00	"
Hexachloroethane	ND	2.00	"
2-Hexanone	ND	10.0	"
Iodomethane	ND	2.00	"
Isopropylbenzene	ND	2.00	"
Methylene chloride	ND	5.00	"
Methyl tert-butyl ether	ND	2.00	"
4-Methyl-2-pentanone	ND	25.0	"
Naphthalene	ND	5.00	"
n-Propylbenzene	ND	2.00	"
Styrene	ND	2.00	"
1,1,1,2-Tetrachloroethane	ND	2.00	"
1,1,1,2-Tetrachloroethane	ND	5.00	"
Tetrachloroethene	ND	2.00	"
Toluene	ND	2.00	"
1,2,3-Trichlorobenzene	ND	2.00	"
1,2,4-Trichlorobenzene	ND	2.00	"
1,1,1-Trichloroethane	ND	2.00	"
1,1,2-Trichloroethane	ND	5.00	"
Trichloroethene	ND	2.00	"
Trichlorofluoromethane	ND	5.00	"
1,2,3-Trichloropropane	ND	5.00	"
1,1,2-Trichlorotrifluoroethane	ND	10.0	"
1,2,4-Trimethylbenzene	ND	2.00	"
1,3,5-Trimethylbenzene	ND	2.00	"
Vinyl acetate	ND	10.0	"
Vinyl chloride	ND	5.00	"
m,p-Xylene	ND	5.00	"

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

**Blank (4041811-BLK1)**

Prepared & Analyzed: 04/18/14

o-Xylene	ND	2.00	ug/kg							
<i>Surrogate: Dibromofluoromethane</i>	126		"	125		101	61-141			
<i>Surrogate: 4-Bromofluorobenzene</i>	116		"	125		93	70-124			
<i>Surrogate: Toluene-d8</i>	123		"	125		99	80-121			

**LCS (4041811-BS1)**

Prepared & Analyzed: 04/18/14

Benzene	123	2.00	ug/kg	125		99	81-120			
Chlorobenzene	124	2.00	"	125		100	90-109			
1,1-Dichloroethene	130	2.00	"	125		104	67-116			
Toluene	123	2.00	"	125		98	78-112			
Trichloroethene	122	2.00	"	125		98	79-108			
<i>Surrogate: Dibromofluoromethane</i>	124		"	125		99	61-141			
<i>Surrogate: 4-Bromofluorobenzene</i>	115		"	125		92	70-124			
<i>Surrogate: Toluene-d8</i>	122		"	125		98	80-121			

**LCS Dup (4041811-BSD1)**

Prepared & Analyzed: 04/18/14

Benzene	123	2.00	ug/kg	125		99	81-120	0	30	
Chlorobenzene	125	2.00	"	125		100	90-109	0.2	30	
1,1-Dichloroethene	130	2.00	"	125		104	67-116	0.6	30	
Toluene	124	2.00	"	125		99	78-112	0.7	30	
Trichloroethene	122	2.00	"	125		98	79-108	0.3	30	
<i>Surrogate: Dibromofluoromethane</i>	126		"	125		101	61-141			
<i>Surrogate: 4-Bromofluorobenzene</i>	115		"	125		92	70-124			
<i>Surrogate: Toluene-d8</i>	123		"	125		98	80-121			

**Duplicate (4041811-DUP1)**

Source: 14D0509-07

Prepared & Analyzed: 04/18/14

Acetone	ND	50.0	ug/kg		ND				30	
Acetonitrile	ND	50.0	"		ND				30	
Acrolein	ND	100	"		ND				30	
Acrylonitrile	ND	25.0	"		ND				30	
Allyl chloride	ND	5.00	"		ND				30	
Benzene	ND	2.00	"		ND				30	
Bromobenzene	ND	2.00	"		ND				30	
Bromochloromethane	ND	2.00	"		ND				30	
Bromodichloromethane	ND	2.00	"		ND				30	
Bromoform	ND	2.00	"		ND				30	
Bromomethane	ND	5.00	"		ND				30	
2-Butanone	ND	50.0	"		ND				30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

<b>Duplicate (4041811-DUP1)</b>	<b>Source: 14D0509-07</b>			<b>Prepared &amp; Analyzed: 04/18/14</b>						
n-Butylbenzene	ND	2.00	ug/kg		ND				30	
sec-Butylbenzene	ND	5.00	"		ND				30	
tert-Butylbenzene	ND	5.00	"		ND				30	
Carbon disulfide	ND	5.00	"		ND				30	
Carbon tetrachloride	ND	5.00	"		ND				30	
Chlorobenzene	ND	2.00	"		ND				30	
Chlorodibromomethane	ND	2.00	"		ND				30	
Chloroethane	ND	5.00	"		ND				30	
2-Chloroethylvinyl ether	ND	5.00	"		ND				30	
Chloroform	ND	2.00	"		ND				30	
Chloromethane	ND	5.00	"		ND				30	
2-Chlorotoluene	ND	5.00	"		ND				30	
4-Chlorotoluene	ND	5.00	"		ND				30	
1,2-Dibromo-3-chloropropane	ND	5.00	"		ND				30	
1,2-Dibromoethane (EDB)	ND	2.00	"		ND				30	
Dibromomethane	ND	2.00	"		ND				30	
1,2-Dichlorobenzene	ND	2.00	"		ND				30	
1,3-Dichlorobenzene	ND	2.00	"		ND				30	
1,4-Dichlorobenzene	ND	2.00	"		ND				30	
trans-1,4-Dichloro-2-butene	ND	5.00	"		ND				30	
Dichlorodifluoromethane	ND	5.00	"		ND				30	
1,1-Dichloroethane	ND	2.00	"		ND				30	
1,2-Dichloroethane	ND	2.00	"		ND				30	
1,1-Dichloroethene	ND	2.00	"		ND				30	
cis-1,2-Dichloroethene	ND	2.00	"		ND				30	
trans-1,2-Dichloroethene	ND	2.00	"		ND				30	
1,2-Dichloropropane	ND	2.00	"		ND				30	
1,3-Dichloropropane	ND	2.00	"		ND				30	
2,2-Dichloropropane	ND	5.00	"		ND				30	
1,1-Dichloropropene	ND	5.00	"		ND				30	
cis-1,3-Dichloropropene	ND	2.00	"		ND				30	
trans-1,3-Dichloropropene	ND	2.00	"		ND				30	
Diethyl ether	ND	5.00	"		ND				30	
Ethylbenzene	ND	2.00	"		ND				30	
Hexachlorobutadiene	ND	2.00	"		ND				30	
Hexachloroethane	ND	2.00	"		ND				30	
2-Hexanone	ND	10.0	"		ND				30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

**Duplicate (4041811-DUP1)**

Source: 14D0509-07

Prepared & Analyzed: 04/18/14

Iodomethane	ND	2.00	ug/kg		ND				30	
Isopropylbenzene	ND	2.00	"		ND				30	
Methylene chloride	ND	5.00	"		ND				30	
Methyl tert-butyl ether	ND	2.00	"		ND				30	
4-Methyl-2-pentanone	ND	25.0	"		ND				30	
Naphthalene	ND	5.00	"		ND				30	
n-Propylbenzene	ND	2.00	"		ND				30	
Styrene	ND	2.00	"		ND				30	
1,1,1,2-Tetrachloroethane	ND	2.00	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	5.00	"		ND				30	
Tetrachloroethene	ND	2.00	"		ND				30	
Toluene	ND	2.00	"		ND				30	
1,2,3-Trichlorobenzene	ND	2.00	"		ND				30	
1,2,4-Trichlorobenzene	ND	2.00	"		ND				30	
1,1,1-Trichloroethane	ND	2.00	"		ND				30	
1,1,2-Trichloroethane	ND	5.00	"		ND				30	
Trichloroethene	ND	2.00	"		ND				30	
Trichlorofluoromethane	ND	5.00	"		ND				30	
1,2,3-Trichloropropane	ND	5.00	"		ND				30	
1,1,2-Trichlorotrifluoroethane	ND	10.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	2.00	"		ND				30	
1,3,5-Trimethylbenzene	ND	2.00	"		ND				30	
Vinyl acetate	ND	10.0	"		ND				30	
Vinyl chloride	ND	5.00	"		ND				30	
m,p-Xylene	ND	5.00	"		ND				30	
o-Xylene	ND	2.00	"		ND				30	
Surrogate: Dibromofluoromethane	158		"	125		126	61-141			
Surrogate: 4-Bromofluorobenzene	119		"	125		95	70-124			
Surrogate: Toluene-d8	123		"	125		98	80-121			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041811**

<b>Matrix Spike (4041811-MS1)</b>	<b>Source: 14D0509-07</b>			<b>Prepared &amp; Analyzed: 04/18/14</b>						
Benzene	126	2.00	ug/kg	125	ND	101	77-127			
Chlorobenzene	127	2.00	"	125	ND	102	84-114			
1,1-Dichloroethene	133	2.00	"	125	ND	106	61-129			
Toluene	126	2.00	"	125	ND	101	66-139			
Trichloroethene	123	2.00	"	125	ND	98	83-113			
<i>Surrogate: Dibromofluoromethane</i>	<i>137</i>		<i>"</i>	<i>125</i>		<i>110</i>	<i>61-141</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>121</i>		<i>"</i>	<i>125</i>		<i>97</i>	<i>70-124</i>			
<i>Surrogate: Toluene-d8</i>	<i>123</i>		<i>"</i>	<i>125</i>		<i>98</i>	<i>80-121</i>			

<b>Matrix Spike Dup (4041811-MSD1)</b>	<b>Source: 14D0509-07</b>			<b>Prepared &amp; Analyzed: 04/18/14</b>						
Benzene	127	2.00	ug/kg	125	ND	102	77-127	0.9	30	
Chlorobenzene	126	2.00	"	125	ND	100	84-114	1	30	
1,1-Dichloroethene	135	2.00	"	125	ND	108	61-129	1	30	
Toluene	126	2.00	"	125	ND	101	66-139	0.1	30	
Trichloroethene	122	2.00	"	125	ND	98	83-113	0.3	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>139</i>		<i>"</i>	<i>125</i>		<i>111</i>	<i>61-141</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>121</i>		<i>"</i>	<i>125</i>		<i>97</i>	<i>70-124</i>			
<i>Surrogate: Toluene-d8</i>	<i>123</i>		<i>"</i>	<i>125</i>		<i>98</i>	<i>80-121</i>			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041652**

**Blank (4041652-BLK1)**

Prepared: 04/17/14 Analyzed: 04/18/14

Acenaphthene	ND	20.0	ug/kg							
Acenaphthylene	ND	20.0	"							
Anthracene	ND	20.0	"							
Benzo (a) anthracene	ND	20.0	"							
Benzo (b) fluoranthene	ND	20.0	"							
Benzo (k) fluoranthene	ND	20.0	"							
Benzo (g,h,i) perylene	ND	40.0	"							
Benzo (a) pyrene	ND	20.0	"							
Chrysene	ND	20.0	"							
Dibenz (a,h) anthracene	ND	40.0	"							
Fluoranthene	ND	20.0	"							
Fluorene	ND	20.0	"							
Indeno (1,2,3-cd) pyrene	ND	30.0	"							
Naphthalene	ND	20.0	"							
Phenanthrene	ND	20.0	"							
Pyrene	ND	20.0	"							
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Surrogate: 2-Fluorophenol	448		"	568		79	25-121			
Surrogate: Phenol-d6	422		"	568		74	24-113			
Surrogate: Nitrobenzene-d5	420		"	568		74	23-120			
Surrogate: 2-Fluorobiphenyl	462		"	568		81	30-115			
Surrogate: 2,4,6-Tribromophenol	253		"	568		45	19-122			
Surrogate: Terphenyl-d14	433		"	568		76	18-137			

**LCS (4041652-BS1)**

Prepared: 04/17/14 Analyzed: 04/18/14

Acenaphthene	573	20.0	ug/kg	568		101	50-135			
4-Chloro-3-methylphenol	493	20.0	"	568		87	34-142			
2-Chlorophenol	521	20.0	"	568		92	38-125			
Di-n-butyl phthalate	548	40.0	"	568		96	44-152			
1,4-Dichlorobenzene	475	20.0	"	568		84	48-125			
2,4-Dinitrotoluene	545	20.0	"	568		96	41-144			
4-Nitrophenol	398	70.0	"	568		70	10-155			
N-Nitrosodi-n-propylamine	586	30.0	"	568		103	28-156			
Pentachlorophenol	240	40.0	"	568		42	21-133			
Phenol	487	30.0	"	568		86	35-120			
Pyrene	520	20.0	"	568		92	40-152			
1,2,4-Trichlorobenzene	508	20.0	"	568		89	47-125			
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Surrogate: 2-Fluorophenol	437		"	568		77	25-121			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041652**

**LCS (4041652-BS1)**

Prepared: 04/17/14 Analyzed: 04/18/14

Surrogate: Phenol-d6	407		ug/kg	568		72	24-113			
Surrogate: Nitrobenzene-d5	435		"	568		77	23-120			
Surrogate: 2-Fluorobiphenyl	482		"	568		85	30-115			
Surrogate: 2,4,6-Tribromophenol	297		"	568		52	19-122			
Surrogate: Terphenyl-d14	412		"	568		73	18-137			

**LCS Dup (4041652-BSD1)**

Prepared: 04/17/14 Analyzed: 04/18/14

Acenaphthene	545	20.0	ug/kg	568		96	50-135	5	30	
4-Chloro-3-methylphenol	564	20.0	"	568		99	34-142	13	30	
2-Chlorophenol	542	20.0	"	568		95	38-125	4	30	
Di-n-butyl phthalate	594	40.0	"	568		105	44-152	8	30	
1,4-Dichlorobenzene	450	20.0	"	568		79	48-125	5	30	
2,4-Dinitrotoluene	540	20.0	"	568		95	41-144	0.9	30	
4-Nitrophenol	464	70.0	"	568		82	10-155	15	30	
N-Nitrosodi-n-propylamine	590	30.0	"	568		104	28-156	0.7	30	
Pentachlorophenol	310	40.0	"	568		54	21-133	25	30	
Phenol	509	30.0	"	568		90	35-120	5	30	
Pyrene	555	20.0	"	568		98	40-152	6	30	
1,2,4-Trichlorobenzene	503	20.0	"	568		89	47-125	1	30	
Surrogate: 2-Fluorophenol	446		"	568		79	25-121			
Surrogate: Phenol-d6	416		"	568		73	24-113			
Surrogate: Nitrobenzene-d5	428		"	568		75	23-120			
Surrogate: 2-Fluorobiphenyl	474		"	568		83	30-115			
Surrogate: 2,4,6-Tribromophenol	362		"	568		64	19-122			
Surrogate: Terphenyl-d14	477		"	568		84	18-137			

**Duplicate (4041652-DUP1)**

Source: 14D0438-01

Prepared: 04/17/14 Analyzed: 04/18/14

Acenaphthene	ND	20.0	ug/kg		ND				30	
Acenaphthylene	ND	20.0	"		ND				30	
Anthracene	ND	20.0	"		ND				30	
Benzo (a) anthracene	ND	20.0	"		ND				30	
Benzo (b) fluoranthene	ND	20.0	"		ND				30	
Benzo (k) fluoranthene	ND	20.0	"		ND				30	
Benzo (g,h,i) perylene	ND	40.0	"		ND				30	
Benzo (a) pyrene	ND	20.0	"		ND				30	
Chrysene	ND	20.0	"		ND				30	
Dibenz (a,h) anthracene	ND	40.0	"		ND				30	
Fluoranthene	ND	20.0	"		ND				30	

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041652**

<b>Duplicate (4041652-DUP1)</b>		<b>Source: 14D0438-01</b>		Prepared: 04/17/14		Analyzed: 04/18/14	
Fluorene	ND	20.0	ug/kg		ND		30
Indeno (1,2,3-cd) pyrene	ND	30.0	"		ND		30
Naphthalene	ND	20.0	"		ND		30
Phenanthrene	ND	20.0	"		ND		30
Pyrene	ND	20.0	"		ND		30
<i>Surrogate: 2-Fluorophenol</i>	263		"	568		46	25-121
<i>Surrogate: Phenol-d6</i>	250		"	568		44	24-113
<i>Surrogate: Nitrobenzene-d5</i>	369		"	568		65	23-120
<i>Surrogate: 2-Fluorobiphenyl</i>	358		"	568		63	30-115
<i>Surrogate: 2,4,6-Tribromophenol</i>	242		"	568		43	19-122
<i>Surrogate: Terphenyl-d14</i>	259		"	568		46	18-137

<b>Matrix Spike (4041652-MS1)</b>		<b>Source: 14D0438-01</b>		Prepared: 04/17/14		Analyzed: 04/18/14	
Acenaphthene	259	20.0	ug/kg	568	ND	46	46-140
4-Chloro-3-methylphenol	296	20.0	"	568	ND	52	42-139
2-Chlorophenol	255	20.0	"	568	ND	45	30-135
Di-n-butyl phthalate	300	40.0	"	568	4.36	52	24-152
1,4-Dichlorobenzene	216	20.0	"	568	ND	38	36-137
2,4-Dinitrotoluene	239	20.0	"	568	ND	42	28-145
4-Nitrophenol	275	70.0	"	568	ND	48	23-150
N-Nitrosodi-n-propylamine	349	30.0	"	568	ND	61	31-161
Pentachlorophenol	166	40.0	"	568	ND	29	3-159
Phenol	281	30.0	"	568	ND	49	31-138
Pyrene	255	20.0	"	568	ND	45	30-152
1,2,4-Trichlorobenzene	234	20.0	"	568	ND	41	39-134
<i>Surrogate: 2-Fluorophenol</i>	217		"	568		38	25-121
<i>Surrogate: Phenol-d6</i>	234		"	568		41	24-113
<i>Surrogate: Nitrobenzene-d5</i>	199		"	568		35	23-120
<i>Surrogate: 2-Fluorobiphenyl</i>	216		"	568		38	30-115
<i>Surrogate: 2,4,6-Tribromophenol</i>	179		"	568		31	19-122
<i>Surrogate: Terphenyl-d14</i>	210		"	568		37	18-137

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041652**

**Matrix Spike Dup (4041652-MSD1)**

Source: 14D0438-01

Prepared: 04/17/14

Analyzed: 04/18/14

Acenaphthene	329	20.0	ug/kg	568	ND	58	46-140	24	30	
4-Chloro-3-methylphenol	303	20.0	"	568	ND	53	42-139	2	30	
2-Chlorophenol	345	20.0	"	568	ND	61	30-135	30	30	
Di-n-butyl phthalate	354	40.0	"	568	4.36	62	24-152	17	30	
1,4-Dichlorobenzene	258	20.0	"	568	ND	45	36-137	18	30	
2,4-Dinitrotoluene	301	20.0	"	568	ND	53	28-145	23	30	
4-Nitrophenol	309	70.0	"	568	ND	54	23-150	12	30	
N-Nitrosodi-n-propylamine	397	30.0	"	568	ND	70	31-161	13	30	
Pentachlorophenol	181	40.0	"	568	ND	32	3-159	8	30	
Phenol	323	30.0	"	568	ND	57	31-138	14	30	
Pyrene	316	20.0	"	568	ND	56	30-152	21	30	
1,2,4-Trichlorobenzene	295	20.0	"	568	ND	52	39-134	23	30	
<i>Surrogate: 2-Fluorophenol</i>	299		"	568		53	25-121			
<i>Surrogate: Phenol-d6</i>	293		"	568		51	24-113			
<i>Surrogate: Nitrobenzene-d5</i>	253		"	568		45	23-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	272		"	568		48	30-115			
<i>Surrogate: 2,4,6-Tribromophenol</i>	234		"	568		41	19-122			
<i>Surrogate: Terphenyl-dl4</i>	259		"	568		46	18-137			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**TPH by EPA 8015B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4041810**

<b>Blank (4041810-BLK1)</b>										
					Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	ND	10.0	mg/kg							
Extended Range HC (C28-C40)	ND	10.0	"							
Surrogate: 4-Bromofluorobenzene	44.3		"	50.0		89	75-129			

<b>LCS (4041810-BS1)</b>										
					Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	494	10.0	mg/kg	500		99	75-125			
Surrogate: 4-Bromofluorobenzene	42.5		"	50.0		85	75-129			

<b>LCS Dup (4041810-BSD1)</b>										
					Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	479	10.0	mg/kg	500		96	75-125	3	30	
Surrogate: 4-Bromofluorobenzene	46.0		"	50.0		92	75-129			

<b>Duplicate (4041810-DUP1)</b>										
			<b>Source: 14D0438-02</b>		Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	ND	10.0	mg/kg		ND					30
Extended Range HC (C28-C40)	ND	10.0	"		ND					30
Surrogate: 4-Bromofluorobenzene	45.5		"	50.0		91	75-129			

<b>Matrix Spike (4041810-MS1)</b>										
			<b>Source: 14D0438-02</b>		Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	457	10.0	mg/kg	500	ND	91	75-125			
Surrogate: 4-Bromofluorobenzene	45.4		"	50.0		91	75-129			

<b>Matrix Spike Dup (4041810-MSD1)</b>										
			<b>Source: 14D0438-02</b>		Prepared & Analyzed: 04/18/14					
Diesel (C10-C28)	466	10.0	mg/kg	500	ND	93	75-125	2	30	
Surrogate: 4-Bromofluorobenzene	42.3		"	50.0		85	75-129			

**Batch 4042129**

<b>Blank (4042129-BLK1)</b>										
					Prepared: 04/21/14 Analyzed: 04/22/14					
Gasoline (C6-C10)	ND	0.100	mg/kg							
Surrogate: 4-Bromofluorobenzene	0.0518		"	0.0625		83	60-160			

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Client Name: H. M. Pitt Labs, Inc.  
 Project Name: AAI-134810

EMA Log #: 14D0509

**TPH by EPA 8015B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 4042129</b>										
<b>LCS (4042129-BS1)</b>				Prepared & Analyzed: 04/21/14						
Gasoline (C6-C10)	0.491	0.100	mg/kg	0.500		98	70-130			
Surrogate: 4-Bromofluorobenzene	0.0747		"	0.0625		120	60-160			
<b>LCS Dup (4042129-BSD1)</b>				Prepared & Analyzed: 04/21/14						
Gasoline (C6-C10)	0.484	0.100	mg/kg	0.500		97	70-130	1	30	
Surrogate: 4-Bromofluorobenzene	0.0718		"	0.0625		115	60-160			
<b>Duplicate (4042129-DUP1)</b>				Source: 14D0509-07		Prepared: 04/21/14 Analyzed: 04/22/14				
Gasoline (C6-C10)	ND	0.400	mg/kg		ND				30	R-06
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0625		70	60-160			
<b>Matrix Spike (4042129-MS1)</b>				Source: 14D0509-07		Prepared: 04/21/14 Analyzed: 04/22/14				
Gasoline (C6-C10)	0.451	0.100	mg/kg	0.500	ND	90	60-140			
Surrogate: 4-Bromofluorobenzene	0.0730		"	0.0625		117	60-160			
<b>Matrix Spike Dup (4042129-MSD1)</b>				Source: 14D0509-07		Prepared: 04/21/14 Analyzed: 04/22/14				
Gasoline (C6-C10)	0.445	0.100	mg/kg	0.500	ND	89	60-140	1	30	
Surrogate: 4-Bromofluorobenzene	0.0717		"	0.0625		115	60-160			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

### Notes and Definitions

- R-06 Sample dilution was necessary due to nature of the matrix.
- QR-02 The RPD result exceeded the QC limits due to non-homogeneity of sample.
- QM-06 Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

14D0589

134810

### CHAIN-OF-CUSTODY RECORD

**EnviroMatrix Analytical, Inc.**

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

**EMA LOG #:** \_\_\_\_\_

**Client:** ~~AAE~~ - HM Pitt

**Attn:** ~~Eric Cathcart~~ Cornelius Harris

**Samplers(s):** Eric Cathcart & Cornelius Harris

**Address:** 3050 Ave. Bona

**Phone:** Ashland City TN 37015

**Email:** 888 321 0247

**Billing Address:** ~~EnviroMatrix.com~~ SAMP

**Project ID:** AAE-134810

**Project #:** \_\_\_\_\_

**PO #:** \_\_\_\_\_

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	OR-1-6"-BGS	4/17	10:45	S	Jar
2	OR-1-2"-BGS		10:50	J	Jar
3	OR-2-6"-BGS		10:55	J	Jar
4	OR-2-2"-BGS		11:00	J	Jar
5	OR-3-6"-BGS		11:02	J	Sleeve
6	OR-3-2"-BGS		11:05	J	Sleeve
7	OW-4-5"-BGS		10:30	J	Sleeve
8	OW-5-5"-BGS		10:40	J	Sleeve
9	OW-6-5"-BGS		9:45	J	Sleeve
10	OW-6-10"-BGS		10:00	J	Sleeve

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water

WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By:  Courier  UPS  FedEx  USPS  Client Drop Off  Other

Turn-Around-Time:  Same Day  24 hr  48 hr  5 day  7 day  STD (7 day)

Reporting Requirements:  Fax  PDF  Excel  Geotracker/EDF  Hard Copy  EDT

Sample Disposal:  By Laboratory  Return to Client: P/U or Delivery  Archive

**Sample Integrity**

Correct Containers:  No N/A

Custody Seals Intact: Yes No

COC/Labels Agree:  No N/A

Containers Properly Preserved: Yes No   
Temp @ Receipt: -6  
Sampled By: ~~EnviroMatrix.com~~ EMA Autosampler

**Project/Sample Comments:**  
COE SAMPLES - RED CAP IS TOP

### Requested Analysis

Requested Analysis	RELINQUISHED BY	DATE/TIME	RECEIVED BY
Oil & Grease <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> 1664			
8015B (TPH) <input type="checkbox"/> Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Ext			
624/(260 (VOC) Full BTXE MTBE Oxy Nap			
625 (8270) (SVOC) <input checked="" type="checkbox"/> PAH only			
608 (8081) (Organochlorine Pesticides)			
608 (8082) (Polychlorinated Biphenyls)			
8141 (Organophosphorus Pesticides)			
TBT (Organotin Compounds)			
pH <input type="checkbox"/> EC <input type="checkbox"/> TSS <input type="checkbox"/> TDS			
Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> TKN <input type="checkbox"/> NH3			
CAC Title 22/CAM17 Metals <input checked="" type="checkbox"/> TLTC <input type="checkbox"/> STLC			
TCRP (RCRA) <input type="checkbox"/> Metals <input type="checkbox"/> Organics			
Cd Cr Cu Pb Ni Ag Zn <input type="checkbox"/> Dissolved			
Coliform, <input type="checkbox"/> Total (MTF) <input type="checkbox"/> Fecal (MTF)			
Coliform, T+E, Coli <input type="checkbox"/> P/A <input type="checkbox"/> Enumeration			
Enterococcus, <input type="checkbox"/> MTF <input type="checkbox"/> Enterolent			
Heterotrophic Plate Count (HPC)			
BOD <input type="checkbox"/> COD <input type="checkbox"/> Cyanide			
Arsemic TLC			
		APR 17 '14	14:55

Signature: ~~EnviroMatrix.com~~ HM Pitt

Print: Cornelius Harris

Company: HM Pitt

Signature: ~~EnviroMatrix.com~~ HM Pitt

Print: HM Pitt

Company: HM Pitt

Signature: ~~EnviroMatrix.com~~ HM Pitt

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Signature: ~~EnviroMatrix.com~~ HM Pitt

Print: HM Pitt

Company: HM Pitt

Additional costs may apply, consult a project manager for details.  
EMA reserves the right to return any samples that do not match our waste profile.  
NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

