



- CONSULTANTS
- ENVIRONMENTAL
- GEOTECHNICAL
- MATERIALS
- FORENSICS

June 17, 2014

Guardian Pest Solutions, Inc.  
701 East 4<sup>th</sup> Street  
Duluth, MN 55805

Attn: Mr. Jason Wick, President

RE: Addendum to Geotechnical Exploration and Review Report  
Environmental Services  
Proposed Guardian Pest Solutions, Inc. Site  
Winter Business Park Property, Superior, Wisconsin  
AET No. 07-06007

Dear Mr. Wick:

American Engineering Testing, Inc. (AET) has completed environmental sampling and testing you authorized for the above-referenced project site. This letter is an addendum to the June 6, 2014 Report of Geotechnical Exploration and Review report (June 6 Geotechnical Report) AET prepared and submitted to you. This letter is the instrument of services defined in our proposal dated April 25, 2014.

### **Results**

AET advanced eight standard penetration test borings on the project site as part of our Geotechnical exploration completed on May 14 and the 15th, 2014. Pursuant to our proposal, an AET environmental technician screened test boring soil samples in the field for total organic vapor (TOV) concentrations, which could indicate potential petroleum contamination. The soil samples were screened with a field photoionization detector (PID) equipped with a 10.7 eV lamp. Please refer to Section 5.4 Environmental Screening in the June 6 Geotechnical Report for the field screening results.

At your request, samples exhibiting elevated concentrations of TOVs were analyzed for petroleum related compounds. A representative portion of a sample was placed in a laboratory-clean sampling jar and then submitted to an analytical laboratory for chemical analysis of petroleum compounds.



Mr. Jason Wick  
AET No. 07-06007  
June 17, 2014  
Page 2 of 2

Soils samples submitted for laboratory chemical analysis were collected at depths of 13.5 feet and 17.0 feet from test boring B-05, and at the 7-foot depth from B-07. Please refer to Figure 1 in the June 6 Geotechnical Report for the locations of those soil borings. The samples were analyzed for volatile organic compounds (VOCs) and diesel range organics (DRO). No VOCs or DRO were detected above the reporting limit in the B-05 sample from the 13.5-foot depth and the B-07 sample. However, petroleum related VOCs and DRO were detected in the B-05 sample from the 17.0-foot depth. The detected VOC concentrations ranged from 572 to 1,770 micrograms per kilogram (ug/kg), which is equivalent to parts per billion (ppb). DRO was detected in this B-05 sample at a concentration of 1,760 milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm). For more specific information regarding the chemical analysis results we refer you to the analytical laboratory report, which is included with this letter.

### **Conclusions**


Based on the field screening and chemical analysis data, there is evidence of petroleum impacted soil on the project site. However, the field screening data suggests the petroleum impacted soil is likely limited to a localized area that is at depths well below planned building foundations. Additional subsurface investigation and sampling analysis would be needed to define the extent of the detected petroleum impacted soil.

We appreciate the opportunity to have been of service to you on this project. If you have any questions regarding the information presented in this report, or if we can be of additional assistance, please contact me at your convenience.

Sincerely,  
**American Engineering Testing, Inc.**



Eric P. Oleson  
Environmental Professional



Robert J. Wahlstrom, PE, PG  
Principle Engineer/Geologist

Phone: 715 828-1476  
E-mail: [coleson@amengtest.com](mailto:coleson@amengtest.com)

att. Pace Analytical laboratory report.

# Tables

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## Soil Analysis Results

June 17, 2014

Mr. Rob Wahlstrom  
American Engineering Testing  
550 Cleveland Avenue N.  
St. Paul, MN 55114

RE: Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

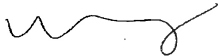
Dear Mr. Wahlstrom:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on June 17, 2014 to correct the client id on Pace sample 001 from B-5 (13'-6") to B-5 (13.5') per the client's email request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



True Yang for  
Lori Castille  
lori.castille@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alabama Certification #40770  
Alabama Certification #40770  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: 8TMS-L  
Florida/NELAP Certification #: E87605  
Guam Certification #: Pace  
Georgia Certification #: 959  
Idaho Certification #: MN00064  
Hawaii Certification #MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Kentucky Dept of Envi. Protection - VVW #:90062  
Louisiana DEQ Certification #: 3086  
Louisiana DHH #: LA140001  
Maine Certification #: 2013011  
Maryland Certification #: 322  
Michigan DEPH Certification #: 9909  
Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace  
Montana Certification #: MT0092  
Nebraska Certification #: Pace  
New Jersey Certification #: MN-002  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Carolina State Public Health #: 27700  
North Dakota Certification #: R-036  
Ohio EPA #: 4150  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Saipan (CNMI) #:MP0003  
South Carolina #:74003001  
Texas Certification #: T104704192  
Tennessee Certification #: 02818  
Utah Certification #: MN000642013-4  
Virginia DGS Certification #: 251  
Virginia/VELAP Certification #: Pace  
Washington Certification #: C486  
Wisconsin Certification #: 999407970  
West Virginia Certification #: 382  
West Virginia TO-15 Approval  
West Virginia DHHR #:9952C

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10267256001	B-5 (13.5')	Solid	05/14/14 08:00	05/14/14 18:00
10267256002	B-5 (17')	Solid	05/14/14 08:40	05/14/14 18:00
10267256003	B-7 (7')	Solid	05/14/14 11:00	05/14/14 18:00
10267256004	TRIP BLANK	Solid	05/14/14 00:00	05/14/14 18:00

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 07-06007 Prop. Guardian REV.

Pace Project No.: 10267256

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10267256001	B-5 (13.5')	WI MOD DRO	MT	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10267256002	B-5 (17')	WI MOD DRO	MT	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10267256003	B-7 (7')	WI MOD DRO	MT	2
		ASTM D2974	JDL	1
		EPA 8260	LPM	70
10267256004	TRIP BLANK	EPA 8260	LPM	70
		EPA 8260	LPM	70

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

Sample: B-5 (13.5') Lab ID: 10267256001 Collected: 05/14/14 08:00 Received: 05/14/14 18:00 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO						
Diesel Range Organics	ND	mg/kg	8.7	1	05/19/14 08:20	05/20/14 18:36		
<b>Surrogates</b>								
n-Triacontane (S)	79 %		50-150	1	05/19/14 08:20	05/20/14 18:36	638-68-6	
<b>Dry Weight</b>		Analytical Method: ASTM D2974						
Percent Moisture	16.6 %		0.10	1		05/16/14 00:00		
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	1210	1	05/19/14 14:45	05/21/14 02:19	67-64-1	
Allyl chloride	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	107-05-1	
Benzene	ND	ug/kg	24.2	1	05/19/14 14:45	05/21/14 02:19	71-43-2	
Bromobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	108-86-1	
Bromochloromethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	74-97-5	
Bromodichloromethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	75-27-4	
Bromoform	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	75-25-2	
Bromomethane	ND	ug/kg	604	1	05/19/14 14:45	05/21/14 02:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	302	1	05/19/14 14:45	05/21/14 02:19	78-93-3	
n-Butylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	56-23-5	
Chlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	108-90-7	
Chloroethane	ND	ug/kg	604	1	05/19/14 14:45	05/21/14 02:19	75-00-3	
Chloroform	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	67-66-3	
Chloromethane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	604	1	05/19/14 14:45	05/21/14 02:19	96-12-8	
Dibromochloromethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	106-93-4	
Dibromomethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	156-60-5	
Dichlorofluoromethane	ND	ug/kg	604	1	05/19/14 14:45	05/21/14 02:19	75-43-4	
1,2-Dichloropropane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	10061-01-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample: B-5 (13.5')** Lab ID: 10267256001 Collected: 05/14/14 08:00 Received: 05/14/14 18:00 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
trans-1,3-Dichloropropene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	60-29-7	
Ethylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	302	1	05/19/14 14:45	05/21/14 02:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	98-82-8	
p-Isopropyltoluene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	99-87-6	
Methylene Chloride	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	302	1	05/19/14 14:45	05/21/14 02:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	1634-04-4	
Naphthalene	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	91-20-3	
n-Propylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	103-65-1	
Styrene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	79-34-5	
Tetrachloroethene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	127-18-4	
Tetrahydrofuran	ND	ug/kg	2420	1	05/19/14 14:45	05/21/14 02:19	109-99-9	
Toluene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	79-00-5	
Trichloroethene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	242	1	05/19/14 14:45	05/21/14 02:19	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	60.4	1	05/19/14 14:45	05/21/14 02:19	108-67-8	
Vinyl chloride	ND	ug/kg	24.2	1	05/19/14 14:45	05/21/14 02:19	75-01-4	
Xylene (Total)	ND	ug/kg	181	1	05/19/14 14:45	05/21/14 02:19	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103 %.		74-125	1	05/19/14 14:45	05/21/14 02:19	17060-07-0	
Toluene-d8 (S)	103 %.		75-125	1	05/19/14 14:45	05/21/14 02:19	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		75-125	1	05/19/14 14:45	05/21/14 02:19	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample: B-5 (17')**      **Lab ID: 10267256002**      Collected: 05/14/14 08:40      Received: 05/14/14 18:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>		Analytical Method: WI MOD DRO    Preparation Method: WI MOD DRO						
Diesel Range Organics	1760	mg/kg	193	20	05/19/14 08:20	05/21/14 10:47		T7
<b>Surrogates</b>								
n-Triacontane (S)	0 %		50-150	20	05/19/14 08:20	05/21/14 10:47	638-68-6	S4
<b>Dry Weight</b>		Analytical Method: ASTM D2974						
Percent Moisture	17.6 %		0.10	1		05/16/14 00:00		
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	6130	5	05/19/14 14:45	05/21/14 03:48	67-64-1	
Allyl chloride	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	107-05-1	
Benzene	ND	ug/kg	123	5	05/19/14 14:45	05/21/14 03:48	71-43-2	
Bromobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	108-86-1	
Bromochloromethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	74-97-5	
Bromodichloromethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	75-27-4	
Bromoform	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	75-25-2	
Bromomethane	ND	ug/kg	3070	5	05/19/14 14:45	05/21/14 03:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	1530	5	05/19/14 14:45	05/21/14 03:48	78-93-3	
n-Butylbenzene	1050	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	104-51-8	
sec-Butylbenzene	572	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	98-06-6	
Carbon tetrachloride	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	56-23-5	
Chlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	108-90-7	
Chloroethane	ND	ug/kg	3070	5	05/19/14 14:45	05/21/14 03:48	75-00-3	
Chloroform	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	67-66-3	
Chloromethane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3070	5	05/19/14 14:45	05/21/14 03:48	96-12-8	
Dibromochloromethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	106-93-4	
Dibromomethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	156-60-5	
Dichlorofluoromethane	ND	ug/kg	3070	5	05/19/14 14:45	05/21/14 03:48	75-43-4	
1,2-Dichloropropane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	10061-01-5	

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample: B-5 (17')**      **Lab ID: 10267256002**      Collected: 05/14/14 08:40      Received: 05/14/14 18:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
trans-1,3-Dichloropropene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	60-29-7	
Ethylbenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	1530	5	05/19/14 14:45	05/21/14 03:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	98-82-8	
p-Isopropyltoluene	<b>1080</b>	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	99-87-6	
Methylene Chloride	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1530	5	05/19/14 14:45	05/21/14 03:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	1634-04-4	
Naphthalene	<b>1320</b>	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	91-20-3	
n-Propylbenzene	<b>321</b>	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	103-65-1	
Styrene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	79-34-5	
Tetrachloroethene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	127-18-4	
Tetrahydrofuran	ND	ug/kg	12300	5	05/19/14 14:45	05/21/14 03:48	109-99-9	
Toluene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	79-00-5	
Trichloroethene	ND	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	1230	5	05/19/14 14:45	05/21/14 03:48	76-13-1	
1,2,4-Trimethylbenzene	<b>1770</b>	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	95-63-6	
1,3,5-Trimethylbenzene	<b>852</b>	ug/kg	307	5	05/19/14 14:45	05/21/14 03:48	108-67-8	
Vinyl chloride	ND	ug/kg	123	5	05/19/14 14:45	05/21/14 03:48	75-01-4	
Xylene (Total)	ND	ug/kg	920	5	05/19/14 14:45	05/21/14 03:48	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100 %.		74-125	5	05/19/14 14:45	05/21/14 03:48	17060-07-0	D3
Toluene-d8 (S)	101 %.		75-125	5	05/19/14 14:45	05/21/14 03:48	2037-26-5	
4-Bromofluorobenzene (S)	121 %.		75-125	5	05/19/14 14:45	05/21/14 03:48	460-00-4	

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample: B-7 (7')**      **Lab ID: 10267256003**      Collected: 05/14/14 11:00      Received: 05/14/14 18:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>		Analytical Method: WI MOD DRO    Preparation Method: WI MOD DRO						
Diesel Range Organics <i>Surrogates</i>	<b>116</b>	mg/kg	9.5	1	05/19/14 08:20	05/20/14 17:13		T6
n-Triacontane (S)	94	%	50-150	1	05/19/14 08:20	05/20/14 17:13	638-68-6	
<b>Dry Weight</b>		Analytical Method: ASTM D2974						
Percent Moisture	<b>23.8</b>	%	0.10	1		05/16/14 00:00		
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	1280	1	05/19/14 14:45	05/21/14 02:37	67-64-1	
Allyl chloride	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	107-05-1	
Benzene	ND	ug/kg	25.6	1	05/19/14 14:45	05/21/14 02:37	71-43-2	
Bromobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	108-86-1	
Bromochloromethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	74-97-5	
Bromodichloromethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	75-27-4	
Bromoform	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	75-25-2	
Bromomethane	ND	ug/kg	641	1	05/19/14 14:45	05/21/14 02:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	321	1	05/19/14 14:45	05/21/14 02:37	78-93-3	
n-Butylbenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	56-23-5	
Chlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	108-90-7	
Chloroethane	ND	ug/kg	641	1	05/19/14 14:45	05/21/14 02:37	75-00-3	
Chloroform	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	67-66-3	
Chloromethane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	641	1	05/19/14 14:45	05/21/14 02:37	96-12-8	
Dibromochloromethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	106-93-4	
Dibromomethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	156-60-5	
Dichlorofluoromethane	ND	ug/kg	641	1	05/19/14 14:45	05/21/14 02:37	75-43-4	
1,2-Dichloropropane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	10061-01-5	

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

Sample: B-7 (7') Lab ID: 10267256003 Collected: 05/14/14 11:00 Received: 05/14/14 18:00 Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
trans-1,3-Dichloropropene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	60-29-7	
Ethylbenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	321	1	05/19/14 14:45	05/21/14 02:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	99-87-6	
Methylene Chloride	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	321	1	05/19/14 14:45	05/21/14 02:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	1634-04-4	
Naphthalene	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	91-20-3	
n-Propylbenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	103-65-1	
Styrene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	79-34-5	
Tetrachloroethene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	127-18-4	
Tetrahydrofuran	ND	ug/kg	2560	1	05/19/14 14:45	05/21/14 02:37	109-99-9	
Toluene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	79-00-5	
Trichloroethene	ND	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	256	1	05/19/14 14:45	05/21/14 02:37	76-13-1	
1,2,4-Trimethylbenzene	83.2	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	95-63-6	
1,3,5-Trimethylbenzene	90.7	ug/kg	64.1	1	05/19/14 14:45	05/21/14 02:37	108-67-8	
Vinyl chloride	ND	ug/kg	25.6	1	05/19/14 14:45	05/21/14 02:37	75-01-4	
Xylene (Total)	ND	ug/kg	192	1	05/19/14 14:45	05/21/14 02:37	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102 %		74-125	1	05/19/14 14:45	05/21/14 02:37	17060-07-0	
Toluene-d8 (S)	101 %		75-125	1	05/19/14 14:45	05/21/14 02:37	2037-26-5	
4-Bromofluorobenzene (S)	101 %		75-125	1	05/19/14 14:45	05/21/14 02:37	460-00-4	

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample: TRIP BLANK**      **Lab ID: 10267256004**      Collected: 05/14/14 00:00      Received: 05/14/14 18:00      Matrix: Solid  
*Results reported on a "wet-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B						
Acetone	ND	ug/kg	1000	1	05/19/14 14:45	05/20/14 23:04	67-64-1	
Allyl chloride	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	107-05-1	
Benzene	ND	ug/kg	20.0	1	05/19/14 14:45	05/20/14 23:04	71-43-2	
Bromobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	108-86-1	
Bromochloromethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	74-97-5	
Bromodichloromethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	75-27-4	
Bromoform	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	75-25-2	
Bromomethane	ND	ug/kg	500	1	05/19/14 14:45	05/20/14 23:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	250	1	05/19/14 14:45	05/20/14 23:04	78-93-3	
n-Butylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	56-23-5	
Chlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	108-90-7	
Chloroethane	ND	ug/kg	500	1	05/19/14 14:45	05/20/14 23:04	75-00-3	
Chloroform	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	67-66-3	
Chloromethane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	500	1	05/19/14 14:45	05/20/14 23:04	96-12-8	
Dibromochloromethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	106-93-4	
Dibromomethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	156-60-5	
Dichlorofluoromethane	ND	ug/kg	500	1	05/19/14 14:45	05/20/14 23:04	75-43-4	
1,2-Dichloropropane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	60-29-7	
Ethylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	250	1	05/19/14 14:45	05/20/14 23:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	99-87-6	
Methylene Chloride	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	250	1	05/19/14 14:45	05/20/14 23:04	108-10-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

**Sample:** TRIP BLANK      **Lab ID:** 10267256004      **Collected:** 05/14/14 00:00      **Received:** 05/14/14 18:00      **Matrix:** Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5030 Med Level</b>		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	1634-04-4	
Naphthalene	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	91-20-3	
n-Propylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	103-65-1	
Styrene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	79-34-5	
Tetrachloroethene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	127-18-4	
Tetrahydrofuran	ND	ug/kg	2000	1	05/19/14 14:45	05/20/14 23:04	109-99-9	
Toluene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	79-00-5	
Trichloroethene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	200	1	05/19/14 14:45	05/20/14 23:04	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	50.0	1	05/19/14 14:45	05/20/14 23:04	108-67-8	
Vinyl chloride	ND	ug/kg	20.0	1	05/19/14 14:45	05/20/14 23:04	75-01-4	
Xylene (Total)	ND	ug/kg	150	1	05/19/14 14:45	05/20/14 23:04	1330-20-7	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104 %		74-125	1	05/19/14 14:45	05/20/14 23:04	17060-07-0	
Toluene-d8 (S)	103 %		75-125	1	05/19/14 14:45	05/20/14 23:04	2037-26-5	
4-Bromofluorobenzene (S)	100 %		75-125	1	05/19/14 14:45	05/20/14 23:04	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

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QC Batch: MPRP/45979                      Analysis Method: ASTM D2974  
QC Batch Method: ASTM D2974              Analysis Description: Dry Weight/Percent Moisture  
Associated Lab Samples: 10267256001, 10267256002, 10267256003

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SAMPLE DUPLICATE: 1683218

Parameter	Units	10267256001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	21.3	25	30	

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SAMPLE DUPLICATE: 1683219

Parameter	Units	10267393018 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	13.3	3	30	

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

QC Batch: MSV/27117 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV 5030 Med Level  
Associated Lab Samples: 10267256001, 10267256002, 10267256003, 10267256004

METHOD BLANK: 1683907 Matrix: Solid  
Associated Lab Samples: 10267256001, 10267256002, 10267256003, 10267256004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,1,1-Trichloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,1,2-Trichloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	200	05/20/14 22:28	
1,1-Dichloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,1-Dichloroethene	ug/kg	ND	50.0	05/20/14 22:28	
1,1-Dichloropropene	ug/kg	ND	50.0	05/20/14 22:28	
1,2,3-Trichlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,2,3-Trichloropropane	ug/kg	ND	200	05/20/14 22:28	
1,2,4-Trichlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,2,4-Trimethylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	05/20/14 22:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.0	05/20/14 22:28	
1,2-Dichlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,2-Dichloroethane	ug/kg	ND	50.0	05/20/14 22:28	
1,2-Dichloropropane	ug/kg	ND	50.0	05/20/14 22:28	
1,3,5-Trimethylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,3-Dichlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
1,3-Dichloropropane	ug/kg	ND	50.0	05/20/14 22:28	
1,4-Dichlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
2,2-Dichloropropane	ug/kg	ND	200	05/20/14 22:28	
2-Butanone (MEK)	ug/kg	ND	250	05/20/14 22:28	
2-Chlorotoluene	ug/kg	ND	50.0	05/20/14 22:28	
4-Chlorotoluene	ug/kg	ND	50.0	05/20/14 22:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	250	05/20/14 22:28	
Acetone	ug/kg	ND	1000	05/20/14 22:28	
Allyl chloride	ug/kg	ND	200	05/20/14 22:28	
Benzene	ug/kg	ND	20.0	05/20/14 22:28	
Bromobenzene	ug/kg	ND	50.0	05/20/14 22:28	
Bromochloromethane	ug/kg	ND	50.0	05/20/14 22:28	
Bromodichloromethane	ug/kg	ND	50.0	05/20/14 22:28	
Bromoform	ug/kg	ND	200	05/20/14 22:28	
Bromomethane	ug/kg	ND	500	05/20/14 22:28	
Carbon tetrachloride	ug/kg	ND	50.0	05/20/14 22:28	
Chlorobenzene	ug/kg	ND	50.0	05/20/14 22:28	
Chloroethane	ug/kg	ND	500	05/20/14 22:28	
Chloroform	ug/kg	ND	50.0	05/20/14 22:28	
Chloromethane	ug/kg	ND	200	05/20/14 22:28	
cis-1,2-Dichloroethene	ug/kg	ND	50.0	05/20/14 22:28	
cis-1,3-Dichloropropene	ug/kg	ND	50.0	05/20/14 22:28	

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

METHOD BLANK: 1683907 Matrix: Solid  
Associated Lab Samples: 10267256001, 10267256002, 10267256003, 10267256004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	50.0	05/20/14 22:28	
Dibromomethane	ug/kg	ND	50.0	05/20/14 22:28	
Dichlorodifluoromethane	ug/kg	ND	200	05/20/14 22:28	
Dichlorofluoromethane	ug/kg	ND	500	05/20/14 22:28	
Diethyl ether (Ethyl ether)	ug/kg	ND	200	05/20/14 22:28	
Ethylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
Hexachloro-1,3-butadiene	ug/kg	ND	250	05/20/14 22:28	
Isopropylbenzene (Cumene)	ug/kg	ND	50.0	05/20/14 22:28	
Methyl-tert-butyl ether	ug/kg	ND	50.0	05/20/14 22:28	
Methylene Chloride	ug/kg	ND	200	05/20/14 22:28	
n-Butylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
n-Propylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
Naphthalene	ug/kg	ND	200	05/20/14 22:28	
p-Isopropyltoluene	ug/kg	ND	50.0	05/20/14 22:28	
sec-Butylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
Styrene	ug/kg	ND	50.0	05/20/14 22:28	
tert-Butylbenzene	ug/kg	ND	50.0	05/20/14 22:28	
Tetrachloroethene	ug/kg	ND	50.0	05/20/14 22:28	
Tetrahydrofuran	ug/kg	ND	2000	05/20/14 22:28	
Toluene	ug/kg	ND	50.0	05/20/14 22:28	
trans-1,2-Dichloroethene	ug/kg	ND	50.0	05/20/14 22:28	
trans-1,3-Dichloropropene	ug/kg	ND	50.0	05/20/14 22:28	
Trichloroethene	ug/kg	ND	50.0	05/20/14 22:28	
Trichlorofluoromethane	ug/kg	ND	200	05/20/14 22:28	
Vinyl chloride	ug/kg	ND	20.0	05/20/14 22:28	
Xylene (Total)	ug/kg	ND	150	05/20/14 22:28	
1,2-Dichloroethane-d4 (S)	%	105	74-125	05/20/14 22:28	
4-Bromofluorobenzene (S)	%	101	75-125	05/20/14 22:28	
Toluene-d8 (S)	%	102	75-125	05/20/14 22:28	

LABORATORY CONTROL SAMPLE: 1683908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	956	96	68-125	
1,1,1-Trichloroethane	ug/kg	1000	924	92	62-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	1010	101	61-127	
1,1,2-Trichloroethane	ug/kg	1000	1010	101	70-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	975	98	56-149	
1,1-Dichloroethane	ug/kg	1000	943	94	60-127	
1,1-Dichloroethene	ug/kg	1000	888	89	63-125	
1,1-Dichloropropene	ug/kg	1000	947	95	67-125	
1,2,3-Trichlorobenzene	ug/kg	1000	976	98	63-132	
1,2,3-Trichloropropane	ug/kg	1000	1030	103	67-125	
1,2,4-Trichlorobenzene	ug/kg	1000	944	94	64-132	

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

LABORATORY CONTROL SAMPLE: 1683908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	927	93	64-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2520	101	56-132	
1,2-Dibromoethane (EDB)	ug/kg	1000	992	99	72-125	
1,2-Dichlorobenzene	ug/kg	1000	957	96	68-125	
1,2-Dichloroethane	ug/kg	1000	952	95	69-125	
1,2-Dichloropropane	ug/kg	1000	968	97	73-125	
1,3,5-Trimethylbenzene	ug/kg	1000	923	92	64-125	
1,3-Dichlorobenzene	ug/kg	1000	935	94	67-125	
1,3-Dichloropropane	ug/kg	1000	994	99	71-125	
1,4-Dichlorobenzene	ug/kg	1000	930	93	69-125	
2,2-Dichloropropane	ug/kg	1000	822	82	53-131	
2-Butanone (MEK)	ug/kg	5000	5190	104	52-131	
2-Chlorotoluene	ug/kg	1000	942	94	66-125	
4-Chlorotoluene	ug/kg	1000	947	95	52-131	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	5290	106	64-125	
Acetone	ug/kg	5000	5110	102	42-150	
Allyl chloride	ug/kg	1000	929	93	58-128	
Benzene	ug/kg	1000	911	91	71-125	
Bromobenzene	ug/kg	1000	937	94	69-125	
Bromochloromethane	ug/kg	1000	951	95	75-125	
Bromodichloromethane	ug/kg	1000	932	93	69-125	
Bromoform	ug/kg	1000	968	97	62-125	
Bromomethane	ug/kg	1000	901	90	62-125	
Carbon tetrachloride	ug/kg	1000	900	90	66-125	
Chlorobenzene	ug/kg	1000	949	95	75-125	
Chloroethane	ug/kg	1000	922	92	61-125	
Chloroform	ug/kg	1000	950	95	72-125	
Chloromethane	ug/kg	1000	863	86	59-125	
cis-1,2-Dichloroethene	ug/kg	1000	940	94	74-125	
cis-1,3-Dichloropropene	ug/kg	1000	932	93	68-125	
Dibromochloromethane	ug/kg	1000	970	97	65-125	
Dibromomethane	ug/kg	1000	939	94	72-125	
Dichlorodifluoromethane	ug/kg	1000	736	74	39-125	
Dichlorofluoromethane	ug/kg	1000	890	89	64-127	
Diethyl ether (Ethyl ether)	ug/kg	1000	973	97	66-125	
Ethylbenzene	ug/kg	1000	936	94	69-125	
Hexachloro-1,3-butadiene	ug/kg	1000	884	88	53-150	
Isopropylbenzene (Cumene)	ug/kg	1000	952	95	70-125	
Methyl-tert-butyl ether	ug/kg	1000	974	97	69-125	
Methylene Chloride	ug/kg	1000	943	94	71-125	
n-Butylbenzene	ug/kg	1000	901	90	59-133	
n-Propylbenzene	ug/kg	1000	924	92	64-125	
Naphthalene	ug/kg	1000	1020	102	61-131	
p-Isopropyltoluene	ug/kg	1000	914	91	63-127	
sec-Butylbenzene	ug/kg	1000	926	93	64-125	
Styrene	ug/kg	1000	969	97	74-125	
tert-Butylbenzene	ug/kg	1000	933	93	66-125	

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

LABORATORY CONTROL SAMPLE: 1683908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	1000	904	90	68-125	
Tetrahydrofuran	ug/kg	10000	9820	98	68-125	
Toluene	ug/kg	1000	934	93	70-125	
trans-1,2-Dichloroethene	ug/kg	1000	915	92	68-125	
trans-1,3-Dichloropropene	ug/kg	1000	955	95	70-125	
Trichloroethene	ug/kg	1000	896	90	71-125	
Trichlorofluoromethane	ug/kg	1000	955	96	62-132	
Vinyl chloride	ug/kg	1000	780	78	55-125	
Xylene (Total)	ug/kg	3000	2850	95	74-125	
1,2-Dichloroethane-d4 (S)	%			104	74-125	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE SAMPLE: 1683909

Parameter	Units	10267014001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	1130	1110	98	63-140	
1,1,1-Trichloroethane	ug/kg	ND	1130	1060	94	54-149	
1,1,1,2-Tetrachloroethane	ug/kg	ND	1130	1180	105	46-150	
1,1,2-Trichloroethane	ug/kg	ND	1130	1170	104	62-141	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1130	1190	105	65-150	
1,1-Dichloroethane	ug/kg	ND	1130	1100	98	57-145	
1,1-Dichloroethene	ug/kg	ND	1130	1070	95	58-137	
1,1-Dichloropropene	ug/kg	ND	1130	1080	96	61-141	
1,2,3-Trichlorobenzene	ug/kg	ND	1130	1150	102	62-147	
1,2,3-Trichloropropane	ug/kg	ND	1130	1200	107	65-141	
1,2,4-Trichlorobenzene	ug/kg	ND	1130	1150	102	64-147	
1,2,4-Trimethylbenzene	ug/kg	ND	1130	1110	98	59-144	
1,2-Dibromo-3-chloropropane	ug/kg	ND	2820	2970	105	56-147	
1,2-Dibromoethane (EDB)	ug/kg	ND	1130	1170	104	66-135	
1,2-Dichlorobenzene	ug/kg	ND	1130	1100	98	63-143	
1,2-Dichloroethane	ug/kg	ND	1130	1110	98	57-145	
1,2-Dichloropropane	ug/kg	ND	1130	1150	102	62-139	
1,3,5-Trimethylbenzene	ug/kg	ND	1130	1110	98	60-144	
1,3-Dichlorobenzene	ug/kg	ND	1130	1110	98	61-146	
1,3-Dichloropropane	ug/kg	ND	1130	1170	104	63-138	
1,4-Dichlorobenzene	ug/kg	ND	1130	1110	98	60-145	
2,2-Dichloropropane	ug/kg	ND	1130	963	85	54-143	
2-Butanone (MEK)	ug/kg	ND	5640	5950	105	45-150	
2-Chlorotoluene	ug/kg	ND	1130	1100	97	62-140	
4-Chlorotoluene	ug/kg	ND	1130	1110	98	60-143	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5640	6230	110	58-146	
Acetone	ug/kg	ND	5640	6010	106	30-150	
Allyl chloride	ug/kg	ND	1130	1070	95	55-142	
Benzene	ug/kg	ND	1130	1060	94	61-134	

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

MATRIX SPIKE SAMPLE:	1683909						
Parameter	Units	10267014001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	1130	1110	98	64-143	
Bromochloromethane	ug/kg	ND	1130	1100	97	62-141	
Bromodichloromethane	ug/kg	ND	1130	1120	99	57-146	
Bromoform	ug/kg	ND	1130	1150	102	60-136	
Bromomethane	ug/kg	ND	1130	1060	91	54-141	
Carbon tetrachloride	ug/kg	ND	1130	1060	94	50-150	
Chlorobenzene	ug/kg	ND	1130	1100	97	67-135	
Chloroethane	ug/kg	ND	1130	1090	97	46-150	
Chloroform	ug/kg	ND	1130	1100	98	60-141	
Chloromethane	ug/kg	ND	1130	1030	91	46-133	
cis-1,2-Dichloroethene	ug/kg	ND	1130	1080	96	64-138	
cis-1,3-Dichloropropene	ug/kg	ND	1130	1100	97	64-138	
Dibromochloromethane	ug/kg	ND	1130	1130	100	56-145	
Dibromomethane	ug/kg	ND	1130	1110	99	62-138	
Dichlorodifluoromethane	ug/kg	ND	1130	952	84	30-136	
Dichlorofluoromethane	ug/kg	ND	1130	1120	100	47-150	
Diethyl ether (Ethyl ether)	ug/kg	ND	1130	1110	98	59-137	
Ethylbenzene	ug/kg	ND	1130	1090	97	63-135	
Hexachloro-1,3-butadiene	ug/kg	ND	1130	1080	95	65-150	
Isopropylbenzene (Cumene)	ug/kg	ND	1130	1110	99	65-137	
Methyl-tert-butyl ether	ug/kg	ND	1130	1130	100	56-143	
Methylene Chloride	ug/kg	ND	1130	1090	96	62-133	
n-Butylbenzene	ug/kg	ND	1130	1100	98	58-148	
n-Propylbenzene	ug/kg	ND	1130	1110	98	60-142	
Naphthalene	ug/kg	ND	1130	1200	107	61-146	
p-Isopropyltoluene	ug/kg	ND	1130	1130	101	61-145	
sec-Butylbenzene	ug/kg	ND	1130	1120	99	57-147	
Styrene	ug/kg	ND	1130	1140	101	67-137	
tert-Butylbenzene	ug/kg	ND	1130	1110	98	57-149	
Tetrachloroethene	ug/kg	ND	1130	1050	93	66-138	
Tetrahydrofuran	ug/kg	ND	11300	12000	106	53-145	
Toluene	ug/kg	ND	1130	1100	98	67-132	
trans-1,2-Dichloroethene	ug/kg	ND	1130	1060	94	61-136	
trans-1,3-Dichloropropene	ug/kg	ND	1130	1120	99	60-140	
Trichloroethene	ug/kg	ND	1130	1060	94	58-150	
Trichlorofluoromethane	ug/kg	ND	1130	1160	102	53-150	
Vinyl chloride	ug/kg	ND	1130	942	83	45-139	
Xylene (Total)	ug/kg	ND	3390	3340	99	66-136	
1,2-Dichloroethane-d4 (S)	%				101	74-125	
4-Bromofluorobenzene (S)	%				100	75-125	
Toluene-d8 (S)	%				101	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

SAMPLE DUPLICATE: 1683910

Parameter	Units	10267014002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	ND		30	
Allyl chloride	ug/kg	ND	ND		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	15.7J		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Dichlorofluoromethane	ug/kg	ND	ND		30	
Diethyl ether (Ethyl ether)	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

SAMPLE DUPLICATE: 1683910

Parameter	Units	10267014002 Result	Dup Result	RPD	Max RPD	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	ND		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Tetrahydrofuran	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%.	104	104	1		
4-Bromofluorobenzene (S)	%.	100	100	.4		
Toluene-d8 (S)	%.	102	102	.3		

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**QUALITY CONTROL DATA**

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

QC Batch: OEXT/25121 Analysis Method: WI MOD DRO  
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS  
Associated Lab Samples: 10267256001, 10267256002, 10267256003

METHOD BLANK: 1684202 Matrix: Solid  
Associated Lab Samples: 10267256001, 10267256002, 10267256003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	05/20/14 16:31	
n-Triacontane (S)	%	85	50-150	05/20/14 16:31	

LABORATORY CONTROL SAMPLE & LCSD: 1684203 1684204

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	80	72.9	70.5	91	88	70-120	3	20	
n-Triacontane (S)	%				101	97	50-150			

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## QUALIFIERS

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- |    |  |
|----|--|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution.                            |
| T6 | High boiling point hydrocarbons are present in the sample.   |
| T7 | Low boiling point hydrocarbons are present in the sample.  |

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 07-06007 Prop. Guardian REV.  
Pace Project No.: 10267256

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10267256001	B-5 (13.5')	WI MOD DRO	OEXT/25121	WI MOD DRO	GCSV/13276
10267256002	B-5 (17')	WI MOD DRO	OEXT/25121	WI MOD DRO	GCSV/13276
10267256003	B-7 (7')	WI MOD DRO	OEXT/25121	WI MOD DRO	GCSV/13276
10267256001	B-5 (13.5')	ASTM D2974	MPRP/45979		
10267256002	B-5 (17')	ASTM D2974	MPRP/45979		
10267256003	B-7 (7')	ASTM D2974	MPRP/45979		
10267256001	B-5 (13.5')	EPA 5035/5030B	MSV/27117	EPA 8260	MSV/27148
10267256002	B-5 (17')	EPA 5035/5030B	MSV/27117	EPA 8260	MSV/27148
10267256003	B-7 (7')	EPA 5035/5030B	MSV/27117	EPA 8260	MSV/27148
10267256004	TRIP BLANK	EPA 5035/5030B	MSV/27117	EPA 8260	MSV/27148


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**Sample Condition Upon Receipt**

Client Name: ART 5/15 La  
Proposed Guardian Site  
 Project #:

**WO# : 10267256**  
  
 10267256

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  SpeedDee  Other: \_\_\_\_\_  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_ Temp Blank?  Yes  No  
 Thermom. Used:  B88A9130516413  B88A912167504  B88A9132521491 Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 Cooler Temp Read (°C): 0.0 Cooler Temp Corrected (°C): 0.0 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: 5/14/14 AC  
 Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/>	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/>	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/>	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	12.) Extra container received for BSS (13'-16')
-Includes Date/Time/ID/Analysis Matrix: <u>SL</u>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRB/8015 (water) DOC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	
Pace Trip Blank Lot # (if purchased): <u>02/014-3</u>			

**CLIENT NOTIFICATION/RESOLUTION** Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** [Signature] Date: 5/15/14  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)