



## **PRELIMINARY SITE ASSESSMENT**

**JOHN B. GARRETT PROPERTY (PARCEL #009)**

**Richmond County, Ellerbe, NC**

**State Project: R-3421C**

**WBS Element: 34545.1.1**

**January 11, 2013**

**Prepared for:**

**North Carolina Department of Transportation**

**Geotechnical Engineering Unit**

**1020 Birch Ridge Drive**

**Raleigh, NC 27610**



# FROEHLING & ROBERTSON, INC.

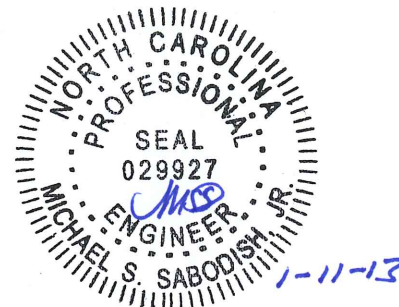
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January 11, 2013

**North Carolina Department of Transportation**  
**Geotechnical Engineering Unit**  
1020 Birch Ridge Drive  
Raleigh, North Carolina 27610

Attn.: Mr. Gordon Box, L.G.  
GeoEnvironmental Project Manager



**Re:** State Project: R-3421C  
WBS Element: 34542.1.1  
US 220 Bypass from Southwest of SR 1304 (Harrington Road) to Future US 220  
Business/US 220 Bypass Interchange South of Ellerbe

**Subject:** Preliminary Site Assessment  
Parcel 009 John B. Garrett  
Rockingham, NC

Dear Mr. Box:

Froehling and Robertson, Inc. (F&R) has completed the authorized Preliminary Site Assessment at the John B. Garrett Property in Rockingham, North Carolina. The work was performed in general accordance with F&R's Proposal No. 1366-114E dated August 13, 2012. This report documents our field activities, presents the results of laboratory analysis and provides recommendations regarding the property.

Please do not hesitate to contact us if you should have any questions regarding this report.

Sincerely,

**FROEHLING & ROBERTSON, INC.**

Michael S. Sabodish, Jr., Ph.D., P.E.  
Engineering and Remediation Services Manager

Christopher J. Burkhardt  
Senior Environmental Professional



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**Preliminary Site Assessment Report  
John B. Garrett Property (Parcel #009)  
Ellerbe, Richmond County, North Carolina  
F&R Project No. 66P-0116**

## **1.0 Introduction**

Froehling and Robertson, Inc. (F&R) has prepared this Preliminary Site Assessment Report (PSA) to document soil assessment activities performed at the John B. Garrett Property (Parcel #009) located in, Ellerbe, Richmond County, North Carolina. The site is located at the northwestern intersection of Sandy Ridge Church Road and U.S. Highway 220. (Appendix I, Figures No. 1 and 2). Currently, the site consists of wooded and cleared land, with the northeastern portion of the property being used as a borrow pit. As indicated in the Request for Proposal (RFP), the site contains 36 monitoring wells, and is known to have existing groundwater contamination due to activities performed at the former NCDOT asphalt testing lab previously located on site. Based on information provided by the NCDOT, trichloroethene (TCE) has been discovered in 19 of the 36 on site monitoring wells. This work was performed in general accordance with F&R's Proposal No. 1366-114E dated August 13, 2012. The purpose of this report is to document field activities, present the results of laboratory analysis, and provide recommendations regarding the property.

Based on conversations and information provided by the NCDOT, it has been determined that the proposed utility installation and roadway construction will impact the project site (See Figure No. 3). As such, the NCDOT requested a Preliminary Site Assessment be performed to assess the possibility of encountering chlorinated solvent impacted soil from the NCDOT asphalt testing laboratory which existed at the project site. As of the reporting date, the site does not contain any structures. However during boring layout and drilling activities, several stockpiles of crushed asphalt were observed within the project site. Photos detailing existing site features are attached as Appendix III of this report.

## **2.0 Site Assessment Activities**

F&R visited the site on October 15, 16, 17 and 18, 2012 to perform the Preliminary Site Assessment. The assessment consisted of advancing 36 borings into the soils at the project site. The project site is split into two parcels along the north and south sides of Sandy Ridge Church Road. Borings B-1 through B-29 were advanced on the southern parcel, while Borings B-30 through B-36 were advanced on the northern parcel (Appendix I, Figure 3). The borings were advanced using direct-push technology (Geoprobe) to depths of 4 to 32 feet below ground surface (bgs). Boring locations were determined by F&R staff using





hand-held GPS location equipment and knowledge of the proposed construction activities. Based on information provided by the GPS manufacturer, sub-meter precision is estimated.

Soil sample cores from the borings (B-1 through B-36) were collected in disposable, 4-foot long acetate sleeves. The soil samples were visually/manually classified and screened in the field using a photo-ionization detector (PID) for evidence of volatile organic compounds (VOCs). Evaluation of VOC concentrations were performed using a MiniRae 2000 PID which produces results in parts per million (ppm). A representative soil sample was collected from one foot sections of each sleeve and placed in a re-sealable plastic bag and the vapors were then allowed to equilibrate in the headspace of the bag for approximately ten minutes prior to measurement with the PID. The measurements were collected by placing the probe tip into the headspace of the bag. PID measurements can be found in the Environmental Borings Logs in Appendix II.

In an attempt to delineate the vertical and horizontal extents of chlorinated solvents in each boring and between borings, more than one soil sample was collected from each boring. The soil samples which exhibited the highest PID concentration or the sample at boring termination were submitted for laboratory analysis for volatile organic compounds by EPA Method 8260.

The samples were collected in laboratory-supplied sample containers, placed in a cooler with ice, and delivered by courier to Pace Analytical Services (Pace) in Raleigh, North Carolina following standard chain-of custody procedures.

### **3.0 Subsurface Conditions**

As indicated in the attached Environmental Boring Logs (Appendix II), subsurface conditions from existing ground surface to boring termination at depths ranging from 4 to 32 feet included various layers of moist, orange and tan, fine to medium sands (USCS – SP); moist, orange-tan and red-brown clayey fine to medium sands (USCS – SC); moist, tan-gray and brown silty fine to medium sands (USCS – SM) and moist, tan-gray and red-brown fine sandy clays (USCS- CL). The groundwater table was not encountered within the depths of the drilled borings, with the exception of Boring B-7, and as such a majority of the soil samples appeared dry to moist. The groundwater table was encountered at Boring B-7 at a depth of approximately 4 feet below ground surface.

### **4.0 Analytical Results**

As shown in the following table, one volatile organic compound identified as p-isopropyl toluene was encountered at four of the boring locations (B-2, B-14 through B-20 and B-25) at depths ranging from one to two feet (Boring B-2, B-14 and B-20) to six feet (Boring B-25) feet below ground surface. At the



current time, a Preliminary Soil Remediation Goal (PSRG) does not exist for p-isopropyl toluene according to the North Carolina Department of Environment and Natural Resources, Inactive Hazardous Sites Branch, *Guidelines for Assessment and Cleanup, dated August, 2011 and updated July, 2012*. In instances where no PSRG exists, the reporting standard falls back to the Maximum Soil Contaminant Concentration (MSCC) goals outlined in the *Guidelines for Assessment and Corrective Action for Non-UST Releases, dated October, 2012*. Based on these guidelines, the laboratory results for the soil samples collected at Borings B-2, B-14, B-20 and B-25 indicated p-isopropyl toluene levels below the NC DENR Soil-to-water Maximum Soil Contaminant Concentration (MSCC) of 0.120 mg/kg.

P-isopropyl toluene, it is an aromatic petroleum hydrocarbon that has many commercial and industrial applications. It is used as a solvent and starting material for organic synthesis and is found in paints, paint thinners, glues, and other products. In addition, it is also found naturally occurring aromatic organic compound.

It should be noted that the concentrations of Acetone detected in the soil samples and shown in the attached laboratory data sheets are the result of sampling artifacts. The soil preservative present in the sampling vials (sodium bi-sulphate) reacts with humic acid to produce acetone in the sampling vial. For this reason, the acetone concentrations are not reported in the following table. The laboratory analytical results can be found in the attached Appendix IV of this report.

**Table 1**  
**Soil Sampling Analytical Results**  
**John B. Garrett Property (Parcel #009)**  
**Ellerbe, Richmond County, North Carolina**

Sample ID	Sample Date	Sample Depth (ft bgs)	PID Reading (ppm)	P-Isopropyl toluene (mg/kg)
B-2	10/16/12	0-1	3.2	0.008
B-14	10/17/12	0-2	25.0	0.0052
B-20	10/18/12	0-1	70.5	0.0153
B-25	10/16/12	4-6	17.8	0.0123
<b>NCDENR Soil-to-Water, MSCC (mg/kg)</b>				<b>0.120*</b>

**Notes:**

ft bgs = feet below ground surface

ppm = parts per million



mg/kg = milligrams per  
kilogram

ND = Not Detected

\*MSCC based upon NCDENR, Division of Waste Management, Guidelines for Assessment and  
Corrective Action of Non-UST Petroleum Releases

## **5.0 Conclusions and Recommendations**

F&R conducted a PSA at the John B. Garrett Property located at the intersection of Sandy Ridge Church Road and U.S. Highway 220, in Ellerbe, Richmond County, North Carolina. The site previously contained a NCDOT asphalt testing laboratory. Thirty-six geoprobe borings were advanced in the vicinity of the proposed storm water utility lines, drainage swales and in the proposed roadways within the controlled access right-of-way. Based on the results of laboratory testing, it has been determined that p-isopropyl toluene impacted soils exist in the vicinity of Borings B-2, B-14, B-20 and B-25 at concentrations below the NC DENR Soil-to-water Maximum Soil Contaminant Concentration (MSCC) of 0.120 mg/kg.

## **6.0 Limitations**

These services have been performed, under authorization of the North Carolina Department of Transportation for specific application on this project. These services have been performed in accordance with generally accepted environmental and hydrogeological practices. No other warranty, expressed or implied is made. As with any subsurface investigation, actual conditions exist only at the precise locations from which samples were taken. Certain inferences are based on the results of sampling and related testing to form a professional opinion of conditions in areas beyond those from which samples were taken. Our conclusions and recommendations are based upon information provided to us by others, our sampling and testing results and our site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations are based upon conditions readily visible at the site at the time of our site visits.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety or the environment. In areas that require notification of local, state, or federal public agencies as required by law, it is the Client's responsibility to so notify.



## **APPENDIX I**

**Figure No. 1 – SITE VICINITY MAP**

**Figure No. 2 – TOPOGRAPHIC MAP**

**Figure No. 3 – LABORATORY RESULTS & BORING LOCATION PLAN**



**SITE VICINITY MAP**

North ▲

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CLIENT: NCDOT	
PROJECT: John B. Garrett Property (Parcel #009)	
LOCATION: Rockingham, Richmond County, North Carolina	
F&R PROJECT No.: 66P-0116	
DRAWN BY: M. Sabodish	
DATE: October 2012	SCALE: Not to scale

FIGURE  
 No.: **1**





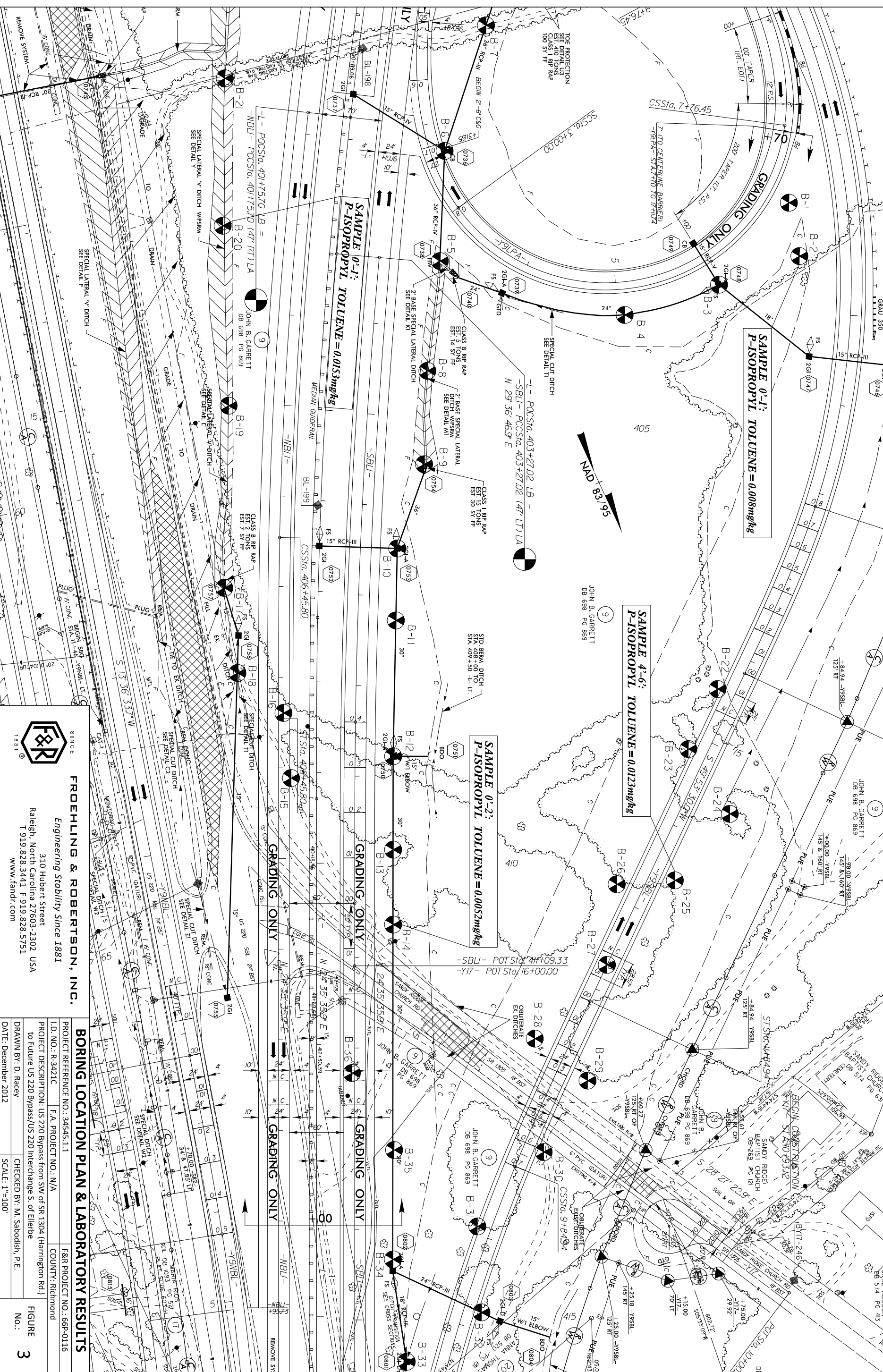
**TOPOGRAPHIC MAP**

**North** ▲



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CLIENT: NCDOT	
PROJECT: John B. Garrett Property (Parcel #009)	
LOCATION: Rockingham, Richmond County, North Carolina	
F&R PROJECT No.: 66P-0116	
DRAWN BY: M. Sabodish	
DATE: October 2012	SCALE: 1:24,000
FIGURE No.:	<b>2</b>





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BORING LOCATION PLAN & LABORATORY RESULTS	
PROJECT REFERENCE NO.: 34545.1.1	F&R PROJECT NO.: 66P-0116
ID. NO.: R-3421C	FA. PROJECT NO.: N/A
COUNTY: Richmond	
PROJECT DESCRIPTION: US 220 Bypass from SW of SR 1304 (Harrington Rd.) to Future US 220 Bypass/US 220 Interchange S. of Eliehe	
DRAWN BY: D. Racey	CHECKED BY: M. Sabodish, P. E.
DATE: December 2012	SCALE: 1"=100'
FIGURE NO.: <b>3</b>	



**APPENDIX II**

**ENVIRONMENTAL BORING LOGS**



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, tan-gray to tan, silty fine to medium SAND (SM).		0.0	0.0	
				1.0	0.7*	
				2.0	0.7	
				3.0	0.3*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/16/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	1.0	NATIVE SOILS: Moist, orange, fine to medium SAND (SP).		0.0	3.2*	
				1.0	4.6	
				2.0	4.0	
				3.0	124.0*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		
						* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, tan to tan-orange, silty fine to medium SAND (SM).		0.0	0.8*	
				2.0	0.3*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 8.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, gray to tan, silty fine to medium SAND (SM).		0.0	0.0*	
				2.0	0.0	
				4.0	0.0	
				6.0	0.0*	
0.0	7.0	Moist, tan-orange, silty clayey fine to medium SAND (SC).				
0.0	8.0	Geoprobe Boring Terminated at 8.0 feet.		8.0		
						* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown to orange-brown, silty fine to medium SAND (SM).		0.0	7.9*	
				1.0	3.0	
				2.0	3.3*	
				3.0	2.9	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 8.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown to orange-brown, silty fine to medium SAND (SM).		0.0	2.2*	
				2.0	2.2	
				4.0	2.5	
				6.0	2.3*	
0.0	7.0	Moist, orange-gray mottled, clayey fine to medium SAND (SC).				
0.0	8.0	Geoprobe Boring Terminated at 8.0 feet.		8.0		

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\* Submitted to laboratory for analysis by EPA Method 8260

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 12.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, gray-tan, silty fine to medium SAND (SM).		0.0	2.3*	
0.0	2.0	Moist, tan, silty clayey fine to medium SAND (SC).		2.0	2.4	
0.0	4.0	Wet to saturated, tan to gray-orange, fine to medium sandy CLAY (CL).		4.0	2.5*	
				6.0	2.1	
				8.0	4.3*	
				10.0		
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.				* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown, tan & orange-brown, silty fine to medium SAND (SM).		0.0	3.1*	
				1.0	2.6	
				2.0	2.9	
				3.0	2.9*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 4.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown, tan & orange, fine to medium SAND (SM).		0.0	9.3*	
				1.0	3.3	
				2.0	3.4	
				3.0	3.1*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/17/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown to orange-brown, silty fine to medium SAND (SM).		0.0	3.9*	
				1.0	3.6	
				2.0	3.9	
				3.0	3.9*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 16.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/17/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, tan-brown to brown-orange, silty fine to medium SAND (SM).		0.0	3.2	
				2.0	4.1*	
				4.0	4.3*	
				6.0	3.8	
0.0	7.0	Moist, tan, fine to medium SAND (SP).		8.0	3.5	
		Moist, orange to orange-gray mottled, clayey fine to medium SAND (SC).		10.0	2.6	
				12.0	3.5	
				14.0	3.2*	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/17/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	3.0	NATIVE SOILS: Moist, brown, silty fine to medium SAND (SM).		0.0	3.3*	
				2.0	3.2	
		Moist, orange-gray mottled to tan-purple mottled, clayey fine to medium SAND (SC).		4.0	3.8	
				6.0	3.5	
				8.0	12.7*	
				10.0	3.8	
				12.0	10.3*	
				14.0	2.8	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/17/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, orange, clayey fine to medium SAND (SC).		0.0	5.0*	
				2.0	7.6	
				4.0	28.5*	
				6.0	4.1	
				8.0	10.2*	
0.0	9.0	Moist, orange-tan mottled, silty fine to medium SAND (SM).		10.0	3.5	
				12.0		
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/17/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks	
		NATIVE SOILS: Moist, orange-brown, silty fine to medium SAND (SM).		0.0	25.0*		
					2.0	6.2	
					4.0	6.2	
					6.0	9.2	
					8.0	12.6*	
					10.0	6.3*	
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.			12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, red-brown, clayey fine to medium SAND (SC).		0.0	9.4*	
				2.0	7.2*	
0.0	3.0	Moist, orange, slightly clayey silty fine to medium SAND (SM).		4.0	4.3	
				6.0	4.8	
0.0	7.0	Moist, tan-gray, sandy CLAY (SM-CL).		8.0	11.4*	
				10.0	2.5	
0.0	11.0	Moist, tan-gray, silty fine to medium SAND (SM).				
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\* Submitted to laboratory for analysis by EPA Method 8260

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, red-brown, slightly clayey silty fine to medium SAND (SM).		0.0	1.5	
				2.0	2.8	
0.0	3.0	Moist, red-brown, clayey fine to medium SAND (SC).		4.0	5.7*	
				6.0	1.3	
				8.0	5.4*	
0.0	9.0	Moist, orange, slightly clayey silty fine to medium SAND (SM).		10.0	2.2	
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		Moist, brown & tan, silty fine to medium SAND (SM).		0.0	6.9*	
				1.0	2.1*	
				2.0	2.0	
				3.0	2.0	
0.0	4.0		Geoprobe Boring Terminated at 4.0 feet.		4.0	
						* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown to orange, silty fine to medium SAND (SM).		0.0	2.4*	
				1.0	1.6	
				2.0	2.2*	
				3.0	2.2	
0.0	4.0		Geoprobe Boring Terminated at 4.0 feet.		4.0	
						* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, red-brown, tan-brown & orange, silty fine to medium SAND (SM).		0.0	4.1	
				1.0	5.0*	
				2.0	4.5*	
				3.0	2.5	
0.0	4.0		Geoprobe Boring Terminated at 4.0 feet.		4.0	
						* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown & tan-orange, silty fine to medium SAND (SM).		0.0	70.5*	
				1.0	47.1	
				2.0	26.4	
0.0	3.0	Moist, orange, clayey silty fine to medium SAND (SM).		3.0	16.4*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 4.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/18/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Dry to moist, brown to orange-tan, silty fine to medium SAND (SM).		0.0	9.2*	
				1.0	7.1	
				2.0	7.2	
0.0	3.0	Dry, orange-tan-gray, fine sandy SILT (ML).		3.0	6.7*	
0.0	4.0	Geoprobe Boring Terminated at 4.0 feet.		4.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, gray-orange mottled, silty CLAY (CL).		0.0	3.3	
				2.0	3.4	
				4.0	3.7	
0.0	5.0					
		Moist, orange-tan, clayey fine to medium SAND (SC).		6.0	3.3	
0.0	7.0					
		Moist, orange-tan to tan, fine to medium SAND (SP).		8.0	4.3*	
				10.0	3.6	
				12.0	3.3*	
				14.0	3.1	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	3.0	NATIVE SOILS: Moist, orange-brown, clayey fine to medium SAND (SC).		0.0	7.4*	
				2.0	3.9	
		Moist, orange-brown-gray mottled, silty clayey fine to medium SAND (SC).		4.0	3.3	
				6.0	3.6	
				8.0	3.9	
0.0	9.0	Moist, tan-reddish brown mottled, fine sandy SILT (ML).		10.0	4.0	
0.0	11.0	Moist, orange-brown, silty fine to medium SAND (SM).		12.0	5.9*	
				14.0	4.0	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, orange-brown to orange-tan mottled, silty fine to medium SAND (SM), with gray clay seams.		0.0	20.7*	
				2.0	6.9	
				4.0	4.4	
				6.0	5.2	
				8.0	6.8	
				10.0	14.3*	
				12.0	20.3*	
				14.0	5.0	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, orange, clayey silty fine to medium SAND (SM).		0.0	5.4*	
				2.0	3.5	
0.0	3.0	Moist, orange, gray & brown, clayey fine to medium SAND (SC).		4.0	17.8*	
				6.0	0.6	
				8.0	14.4*	
0.0	9.0	Moist, orange, clayey silty fine to medium SAND (SM).		10.0	1.4	
0.0	11.0	Moist, orange, slightly silty fine to medium SAND (SM).				
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown, silty fine SAND (SM), with fine gravel.		0.0	36.4*	
				2.0	4.8	
0.0	3.0	Moist, red-brown, tan & gray, clayey fine to medium SAND (SC).		4.0	10.4*	
				6.0	3.2	
0.0	7.0	Moist, orange, silty fine to medium SAND (SM).		8.0	1.2	
				10.0	0.6*	
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, orange-brown, fine to medium SAND (SM).		0.0	0.7	
				2.0	1.2*	
0.0	3.0	Moist, orange to orange-tan, clayey fine to medium SAND (SC).		4.0	0.9	
				6.0	0.8	
				8.0	0.6	
0.0	9.0	Moist, orange-tan, clayey silty fine to medium SAND (SM).		10.0	0.7*	
0.0	11.0	Moist, tan-orange, fine to medium SAND (SP).				
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	3.0	NATIVE SOILS: Moist, orange-brown, silty fine to medium SAND (SM).		0.0	2.1*	
				2.0	1.0	
		Moist, orange-brown-gray mottled, clayey fine to medium SAND (SC).		4.0	1.3	
				6.0	1.0	
				8.0	1.6	
				10.0	1.1	
0.0	11.0	Moist, tan, clayey SILT (ML).		12.0	9.4*	
0.0	13.0	Moist, orange, silty fine to medium SAND (SM).		14.0	0.8	
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.		16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown & orange-brown to tan-gray-orange, clayey fine to medium SAND (SC).		0.0	5.9*	
				2.0	0.4	
				4.0	0.6	
				6.0	0.3	
				8.0	0.6	
				10.0	0.6	
0.0	11.0	Moist, orange-brown, silty fine to medium SAND (SM).		12.0	2.1*	
0.0	13.0	Moist, tan-white, fine to medium SAND (SP).		14.0	0.4	
0.0	16.0		Geoprobe Boring Terminated at 16.0 feet.	16.0		

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 24.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/15/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown, silty fine SAND (SM).		0.0	0.4	
				1.0	0.3	
				2.0	0.3	
				3.0	0.2	
0.0	4.0	Moist, orange-brown, clayey fine to medium SAND (SC).		4.0	0.5	
				5.0	0.9	
				6.0	1.0	
0.0	6.0	Moist, red-gray to red-brown, fine to medium sandy CLAY (CL).		7.0	0.9	
				8.0	2.3	
				9.0	1.1	
				10.0	0.9	
				11.0	1.4	
				12.0	3.2*	
				13.0	1.1	
				14.0	0.9	
				15.0	0.7	
				16.0	1.0	
				17.0	0.5	
				18.0	1.2	
				19.0	1.1	
				20.0	1.1	
				21.0	1.3	
				22.0	1.0	
				23.0	1.1*	
0.0	24.0		Geoprobe Boring Terminated at 24.0 feet.		24.0	

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 28.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/15/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	5.0	NATIVE SOILS: Moist, brown, silty fine to medium SAND (SM), with organics.		0.0	1.3	
				2.0	0.6	
				4.0	0.8	
0.0	9.0	Moist, tan, fine to medium SAND (SP).		6.0	0.9	
				8.0	0.7	
0.0	21.0	Moist, orange-brown to white-red, clayey fine to medium SAND (SC).		10.0	0.5	
				12.0	1.0*	
				14.0	0.6	
				16.0	0.8	
				18.0	0.4	
0.0	27.0	Moist, tan-white, fine to medium SAND (SP).		20.0	0.7	
				22.0	0.6	
				24.0	0.4	
				26.0	0.6*	
0.0	28.0	Moist, orange-brown, slightly clayey silty fine to medium SAND (SM).		28.0		
		Geoprobe Boring Terminated at 28.0 feet.				* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 28.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/15/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	8.0	NATIVE SOILS: Moist, brown, silty fine SAND (SM), with organics.		0.0	5.8*	
				2.0	1.3	
				4.0	0.8	
				6.0	1.4	
		Moist, orange, fine to medium sandy CLAY (CL).		8.0	1.9	
				10.0	1.0	
				12.0	1.6	
				14.0	1.1*	
				16.0	3.5	
				18.0	1.5	
0.0	19.0	Moist, orange, silty fine to medium SAND (SM).		20.0	3.2	
				22.0	1.8	
				24.0	1.6	
				26.0	1.0*	
0.0	28.0	Geoprobe Boring Terminated at 28.0 feet.		28.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 32.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/15/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	4.0	NATIVE SOILS: Moist, brown, silty fine to medium SAND (SM).		0.0	2.3*	
				2.0	0.6	
				4.0	0.8	
		Moist, tan, fine to medium SAND (SP).		6.0	0.8	
				8.0	1.1	
0.0	9.0	Moist, orange-brown to reddish-brown, clayey fine to medium SAND (SC).		10.0	0.5	
				12.0	0.8	
				14.0	0.7	
				16.0	1.2*	
				18.0	0.9	
				20.0	0.8	
				22.0	0.6	
				24.0	1.0	
				26.0	0.6	
				28.0	0.8	
				30.0	0.8*	
0.0	32.0	Geoprobe Boring Terminated at 32.0 feet.		32.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116

**Elevation:** Existing Ground Surface

**Drilling Method:** Geoprobe

**Client:** NCDOT

**Total Depth:** 32.0'

**Hammer Type:** N/A

**Project:** R-3421C

**Boring Location:** See Plan

**Date Drilled:** 10/16/12

**City/State:** Richmond County, NC

**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
0.0	5.0	NATIVE SOILS: Moist, orange-brown, silty fine to medium SAND (SM).		0.0	1.6*	
				2.0	0.6	
				4.0	0.4	
		Moist, tan, fine to medium SAND (SP).		6.0	0.5	
				8.0	0.5	
		Moist, orange-brown & gray-tan, clayey fine to medium SAND (SC).		10.0	0.3	
				12.0	0.3	
				14.0	0.9	
		Moist, orange, clayey fine to medium SAND (SC).		16.0	0.6	
				18.0	0.6	
		Moist, orange to orange-tan, silty fine to medium SAND (SM).		20.0	2.0*	
				22.0	0.4	
		Moist, orange-brown, slightly clayey fine to medium SAND (SC).		24.0	1.2	
		Moist, tan-white, fine to medium SAND (SP).		26.0	0.4	
		Moist, red-brown, clayey fine to medium SAND (SC).		28.0	0.3	
		Moist, orange-tan, slightly clayey silty fine to medium SAND (SM).		30.0	0.4*	
		Moist, tan, slightly clayey fine to medium SAND (SM).		32.0		
0.0	32.0	Geoprobe Boring Terminated at 32.0 feet.				* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 16.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/16/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks	
		NATIVE SOILS: Moist, brown, silty fine to medium SAND (SM).		0.0	0.9		
				2.0	0.2		
				4.0	0.4		
				6.0	0.4		
0.0	7.0	Moist, orange-brown, clayey fine to medium SAND (SC).		8.0	0.5		
				10.0	0.4		
				12.0	0.8*		
0.0	13.0	Moist, orange-brown, silty fine to medium SAND (SM).		14.0	0.6*		
				16.0			
0.0	16.0	Geoprobe Boring Terminated at 16.0 feet.			16.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.



**Project No:** 66P-0116  
**Client:** NCDOT  
**Project:** R-3421C  
**City/State:** Richmond County, NC

**Elevation:** Existing Ground Surface  
**Total Depth:** 12.0'  
**Boring Location:** See Plan

**Drilling Method:** Geoprobe  
**Hammer Type:** N/A  
**Date Drilled:** 10/15/12  
**Driller:** Regional Probing

Elevation	Depth	Description of Materials (Classification)	* Sample Blows	Sample Depth (feet)	PID (ppm)	Remarks
		NATIVE SOILS: Moist, brown, silty fine to medium SAND (SM).		0.0	0.6	
				2.0	0.5	
0.0	3.0	Moist, reddish-brown, fine sandy CLAY (CL).		4.0	0.6	
				6.0	0.6	
0.0	7.0	Moist, orange-brown, clayey fine to medium SAND (SC).		8.0	0.6	
				10.0	0.4*	
0.0	12.0	Geoprobe Boring Terminated at 12.0 feet.		12.0		* Submitted to laboratory for analysis by EPA Method 8260

BORING LOG R3421C\_GEOENV\_BORELOGS.GPJ F&R.GDT 12/10/12

\*Number of blows required for a 140 lb hammer dropping 30" to drive 2" O.D., 1.375" I.D. sampler a total of 18 inches in three 6" increments. The sum of the second and third increments of penetration is termed the standard penetration resistance, N-Value.





**APPENDIX III**

**SITE PHOTOS**



Photo #1: Entrance to site from Sandy Ridge Church Road looking east.



Photo #2: Western portion of project site located on the eastern side of Sandy Ridge Church Road looking north.



Photo #3: Frontage of site along the east side of Sandy Ridge Church Road. The berm/stockpile shown consists of crushed asphalt for the entire length of roadway from the site entrance to US 220.



Photo #4: The eastern property line looking south along US 220.





Photo #5: The western portion of the site showing the current sand borrow pit area.



Photo #6: The southwestern portion of the site showing the current borrow pit area  
And depth of borrow pit excavation.





Photo #7: Another view of sand pit area looking to the east from the access ramp Located at the center of the cut vertical face.



Photo #8: View of asphalt stockpiles in the vicinity of Borings B-15 and B-16





Photos #9 - #11: Various storage containers encountered throughout the site consisting of square and round solvent type containers and 55-gallon drums .





Photo #12: Dozer being used to clear path to borings where difficult access was encountered.



Photo #13: View of typical path upon completion of clearing with the dozer.



**APPENDIX IV**

**LABORATORY ANALYTICAL RESULTS**





Pace Analytical Services, Inc.  
205 East Meadow Road - Suite A  
Eden, NC 27288  
(336)623-8921

Pace Analytical Services, Inc.  
2225 Riverside Dr.  
Asheville, NC 28804  
(828)254-7176

Pace Analytical Services, Inc.  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

November 01, 2012

Mike Sabodish  
Froehling & Robertson

RE: Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

Dear Mike Sabodish:

Enclosed are the analytical results for sample(s) received by the laboratory between October 17, 2012 and October 19, 2012. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Bonnie McKee

bonnie.mckee@pacelabs.com  
Project Manager

Enclosures

cc: Chemical Testing Engineer, NCDOT



### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



**Pace Analytical Services, Inc.**  
205 East Meadow Road - Suite A  
Eden, NC 27288  
(336)623-8921

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(828)254-7176

**Pace Analytical Services, Inc.**  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

## CERTIFICATIONS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

---

### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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**SAMPLE ANALYTE COUNT**

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135495001	B-30 13'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495002	B-30 24'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495003	B-32 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495004	B-32 16'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495005	B-32 28'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495006	B-31 14'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495007	B-31 28'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495008	B-33 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495009	B-33 18'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495010	B-33 32'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495011	B-36 12'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495012	B-35 14'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495013	B-35 16'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495014	B-34 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495015	B-34 22'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495016	B-29 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495017	B-29 14'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495018	B-27 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495019	B-27 12'	EPA 8260	DLK	71	PASI-C

**REPORT OF LABORATORY ANALYSIS**

### SAMPLE ANALYTE COUNT

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135495020	B-26 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495021	B-26 6'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495022	B-26 12'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495023	B-25 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495024	B-25 6'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495025	B-25 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495026	B-28 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495027	B-28 14'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495028	B-24 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495029	B-24 12'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495030	B-24 14'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495031	B-23 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495032	B-23 14'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495033	B-22 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495034	B-22 14'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495035	B-2 1'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495036	B-2 4'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495037	B-34 32'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C

### REPORT OF LABORATORY ANALYSIS



### SAMPLE ANALYTE COUNT

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135495038	B-3 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495039	B-3 @ 3'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495040	B-4 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495041	B-4 @ 8'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495042	B-1 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495043	B-7 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495044	B-1 @ 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495045	B-7 @ 6'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495046	B-7 @ 10'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495047	B-6 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495048	B-6 @ 8'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495049	B-5 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495050	B-5 @ 3'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495051	B-8 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495052	B-8 @ 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495053	B-9 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495054	B-9 @ 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495055	B-10 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495056	B-10 @ 4'	EPA 8260	DLK	71	PASI-C

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135495057	B-11 @ 4'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495058	B-11 @ 6'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495059	B-11 @ 16'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495060	B-12 @ 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495061	B-12 @ 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495062	B-12 @ 14'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495063	B-13 @ 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495064	B-13 @ 6'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495065	B-13 @ 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495066	B-14 @ 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495067	B-14 @ 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495068	B-14 @ 12'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495069	B-16 @ 6'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495070	B-16 @ 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495071	B-15 @ 2'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495072	B-15 @ 4'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495073	B-15 @ 10'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C
92135495074	B-18 @ 1'	ASTM D2974-87	TNM	1	PASI-C
		EPA 8260	DLK	71	PASI-C

### REPORT OF LABORATORY ANALYSIS



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### SAMPLE ANALYTE COUNT

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92135495075	B-18 @ 3'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495076	B-17 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495077	B-17 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495078	B-19 @ 2'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495079	B-19 @ 3'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495080	B-20 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495081	B-20 @ 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495082	B-21 @ 1'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
92135495083	B-21 @ 4'	EPA 8260	DLK	71	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-30 13'**      **Lab ID: 92135495001**      Collected: 10/15/12 12:35      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	102	1		10/25/12 20:39	67-64-1	
Benzene	ND	ug/kg	5.1	1		10/25/12 20:39	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		10/25/12 20:39	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		10/25/12 20:39	75-27-4	
Bromoform	ND	ug/kg	5.1	1		10/25/12 20:39	75-25-2	
Bromomethane	ND	ug/kg	10.2	1		10/25/12 20:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	102	1		10/25/12 20:39	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		10/25/12 20:39	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	108-90-7	
Chloroethane	ND	ug/kg	10.2	1		10/25/12 20:39	75-00-3	
Chloroform	ND	ug/kg	5.1	1		10/25/12 20:39	67-66-3	
Chloromethane	ND	ug/kg	10.2	1		10/25/12 20:39	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		10/25/12 20:39	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		10/25/12 20:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		10/25/12 20:39	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		10/25/12 20:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		10/25/12 20:39	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		10/25/12 20:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.2	1		10/25/12 20:39	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		10/25/12 20:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/25/12 20:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/25/12 20:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		10/25/12 20:39	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		10/25/12 20:39	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		10/25/12 20:39	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		10/25/12 20:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/25/12 20:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/25/12 20:39	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		10/25/12 20:39	108-20-3	
Ethylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		10/25/12 20:39	87-68-3	
2-Hexanone	ND	ug/kg	51.1	1		10/25/12 20:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		10/25/12 20:39	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		10/25/12 20:39	99-87-6	
Methylene Chloride	ND	ug/kg	20.5	1		10/25/12 20:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.1	1		10/25/12 20:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		10/25/12 20:39	1634-04-4	



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-30 13'**      **Lab ID: 92135495001**      Collected: 10/15/12 12:35      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.1	1		10/25/12 20:39	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	103-65-1	
Styrene	ND	ug/kg	5.1	1		10/25/12 20:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		10/25/12 20:39	127-18-4	
Toluene	ND	ug/kg	5.1	1		10/25/12 20:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		10/25/12 20:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		10/25/12 20:39	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		10/25/12 20:39	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		10/25/12 20:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		10/25/12 20:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		10/25/12 20:39	108-67-8	
Vinyl acetate	ND	ug/kg	51.1	1		10/25/12 20:39	108-05-4	
Vinyl chloride	ND	ug/kg	10.2	1		10/25/12 20:39	75-01-4	
Xylene (Total)	ND	ug/kg	10.2	1		10/25/12 20:39	1330-20-7	
m&p-Xylene	ND	ug/kg	10.2	1		10/25/12 20:39	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		10/25/12 20:39	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	98 %		70-130	1		10/25/12 20:39	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		10/25/12 20:39	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130	1		10/25/12 20:39	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-132	1		10/25/12 20:39	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.1 %</b>		0.10	1		10/19/12 07:50		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-30 24'**      **Lab ID: 92135495002**      Collected: 10/15/12 12:35      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	90.3	1		10/25/12 20:58	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/25/12 20:58	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/25/12 20:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/25/12 20:58	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/25/12 20:58	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		10/25/12 20:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.3	1		10/25/12 20:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/25/12 20:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		10/25/12 20:58	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/25/12 20:58	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		10/25/12 20:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/25/12 20:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/25/12 20:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/25/12 20:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/25/12 20:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/25/12 20:58	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/25/12 20:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		10/25/12 20:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 20:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 20:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 20:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 20:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 20:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 20:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 20:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 20:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 20:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/25/12 20:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/25/12 20:58	87-68-3	
2-Hexanone	ND	ug/kg	45.1	1		10/25/12 20:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/25/12 20:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/25/12 20:58	99-87-6	
Methylene Chloride	ND	ug/kg	18.1	1		10/25/12 20:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.1	1		10/25/12 20:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/25/12 20:58	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

Page 10 of 239

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-30 24'**      **Lab ID: 92135495002**      Collected: 10/15/12 12:35      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/25/12 20:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/25/12 20:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/25/12 20:58	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/25/12 20:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/25/12 20:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/25/12 20:58	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/25/12 20:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/25/12 20:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/25/12 20:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/25/12 20:58	108-67-8	
Vinyl acetate	ND	ug/kg	45.1	1		10/25/12 20:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		10/25/12 20:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		10/25/12 20:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		10/25/12 20:58	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/25/12 20:58	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	97 %		70-130	1		10/25/12 20:58	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/25/12 20:58	2037-26-5	
4-Bromofluorobenzene (S)	95 %		70-130	1		10/25/12 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/25/12 20:58	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>11.1 %</b>		0.10	1		10/19/12 07:51		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-32 1'**      **Lab ID: 92135495003**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	90.8	1		10/25/12 21:16	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/25/12 21:16	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/25/12 21:16	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/25/12 21:16	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/25/12 21:16	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/25/12 21:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.8	1		10/25/12 21:16	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/25/12 21:16	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/25/12 21:16	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/25/12 21:16	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/25/12 21:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/25/12 21:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/25/12 21:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/25/12 21:16	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/25/12 21:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/25/12 21:16	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/25/12 21:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/25/12 21:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 21:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 21:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/25/12 21:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 21:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 21:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/25/12 21:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 21:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 21:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/25/12 21:16	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/25/12 21:16	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/25/12 21:16	87-68-3	
2-Hexanone	ND	ug/kg	45.4	1		10/25/12 21:16	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/25/12 21:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/25/12 21:16	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		10/25/12 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.4	1		10/25/12 21:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/25/12 21:16	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-32 1'**      **Lab ID: 92135495003**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/25/12 21:16	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/25/12 21:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/25/12 21:16	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/25/12 21:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/25/12 21:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/25/12 21:16	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/25/12 21:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/25/12 21:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/25/12 21:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/25/12 21:16	108-67-8	
Vinyl acetate	ND	ug/kg	45.4	1		10/25/12 21:16	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/25/12 21:16	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/25/12 21:16	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/25/12 21:16	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/25/12 21:16	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	92 %		70-130	1		10/25/12 21:16	1868-53-7	
Toluene-d8 (S)	93 %		70-130	1		10/25/12 21:16	2037-26-5	
4-Bromofluorobenzene (S)	87 %		70-130	1		10/25/12 21:16	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-132	1		10/25/12 21:16	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	3.1 %		0.10	1		10/19/12 07:51		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-32 16'**      **Lab ID: 92135495004**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	<b>109</b>	ug/kg	91.1	1		10/25/12 21:35	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/25/12 21:35	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/25/12 21:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/25/12 21:35	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/25/12 21:35	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/25/12 21:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.1	1		10/25/12 21:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/25/12 21:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/25/12 21:35	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/25/12 21:35	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/25/12 21:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/25/12 21:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/25/12 21:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/25/12 21:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/25/12 21:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/25/12 21:35	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/25/12 21:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/25/12 21:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/25/12 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/25/12 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/25/12 21:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/25/12 21:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/25/12 21:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/25/12 21:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/25/12 21:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/25/12 21:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/25/12 21:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/25/12 21:35	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/25/12 21:35	87-68-3	
2-Hexanone	ND	ug/kg	45.5	1		10/25/12 21:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/25/12 21:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/25/12 21:35	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		10/25/12 21:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.5	1		10/25/12 21:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/25/12 21:35	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

**Sample: B-32 16'**      **Lab ID: 92135495004**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/25/12 21:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/25/12 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/25/12 21:35	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/25/12 21:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/25/12 21:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/25/12 21:35	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/25/12 21:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/25/12 21:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/25/12 21:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/25/12 21:35	108-67-8	
Vinyl acetate	ND	ug/kg	45.5	1		10/25/12 21:35	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/25/12 21:35	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/25/12 21:35	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/25/12 21:35	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/25/12 21:35	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	94 %		70-130	1		10/25/12 21:35	1868-53-7	
Toluene-d8 (S)	95 %		70-130	1		10/25/12 21:35	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/25/12 21:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-132	1		10/25/12 21:35	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.7 %</b>		0.10	1		10/19/12 07:51		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-32 28'**      **Lab ID: 92135495005**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.1	1		10/25/12 23:44	67-64-1	
Benzene	ND	ug/kg	4.9	1		10/25/12 23:44	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		10/25/12 23:44	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		10/25/12 23:44	75-27-4	
Bromoform	ND	ug/kg	4.9	1		10/25/12 23:44	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/25/12 23:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.1	1		10/25/12 23:44	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		10/25/12 23:44	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/25/12 23:44	75-00-3	
Chloroform	ND	ug/kg	4.9	1		10/25/12 23:44	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/25/12 23:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		10/25/12 23:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		10/25/12 23:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		10/25/12 23:44	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		10/25/12 23:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/25/12 23:44	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		10/25/12 23:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/25/12 23:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/25/12 23:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/25/12 23:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/25/12 23:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/25/12 23:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/25/12 23:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/25/12 23:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/25/12 23:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/25/12 23:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/25/12 23:44	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		10/25/12 23:44	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/25/12 23:44	87-68-3	
2-Hexanone	ND	ug/kg	48.5	1		10/25/12 23:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/25/12 23:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/25/12 23:44	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/25/12 23:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.5	1		10/25/12 23:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/25/12 23:44	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-32 28'**      **Lab ID: 92135495005**      Collected: 10/15/12 14:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.9	1		10/25/12 23:44	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	103-65-1	
Styrene	ND	ug/kg	4.9	1		10/25/12 23:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		10/25/12 23:44	127-18-4	
Toluene	ND	ug/kg	4.9	1		10/25/12 23:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/25/12 23:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/25/12 23:44	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		10/25/12 23:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/25/12 23:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/25/12 23:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/25/12 23:44	108-67-8	
Vinyl acetate	ND	ug/kg	48.5	1		10/25/12 23:44	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/25/12 23:44	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/25/12 23:44	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/25/12 23:44	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		10/25/12 23:44	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	107 %		70-130	1		10/25/12 23:44	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/25/12 23:44	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/25/12 23:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/25/12 23:44	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.0 %</b>		0.10	1		10/19/12 07:52		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-31 14'**      **Lab ID: 92135495006**      Collected: 10/15/12 15:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	91.3	1		10/26/12 00:03	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/26/12 00:03	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/26/12 00:03	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/26/12 00:03	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/26/12 00:03	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/26/12 00:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.3	1		10/26/12 00:03	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/26/12 00:03	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/26/12 00:03	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/26/12 00:03	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/26/12 00:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/26/12 00:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/26/12 00:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/26/12 00:03	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/26/12 00:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/26/12 00:03	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/26/12 00:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/26/12 00:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/26/12 00:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/26/12 00:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/26/12 00:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/26/12 00:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/26/12 00:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/26/12 00:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/26/12 00:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/26/12 00:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/26/12 00:03	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/26/12 00:03	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/26/12 00:03	87-68-3	
2-Hexanone	ND	ug/kg	45.6	1		10/26/12 00:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/26/12 00:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/26/12 00:03	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		10/26/12 00:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.6	1		10/26/12 00:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/26/12 00:03	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-31 14'**      **Lab ID: 92135495006**      Collected: 10/15/12 15:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/26/12 00:03	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/26/12 00:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/26/12 00:03	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/26/12 00:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/26/12 00:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/26/12 00:03	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/26/12 00:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/26/12 00:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/26/12 00:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/26/12 00:03	108-67-8	
Vinyl acetate	ND	ug/kg	45.6	1		10/26/12 00:03	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/26/12 00:03	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/26/12 00:03	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/26/12 00:03	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/26/12 00:03	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	105 %		70-130	1		10/26/12 00:03	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		10/26/12 00:03	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130	1		10/26/12 00:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-132	1		10/26/12 00:03	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.9 %</b>		0.10	1		10/19/12 07:52		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-31 28'**      **Lab ID: 92135495007**      Collected: 10/15/12 15:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	101	1		10/26/12 00:21	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/26/12 00:21	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/26/12 00:21	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/26/12 00:21	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/26/12 00:21	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		10/26/12 00:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		10/26/12 00:21	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/26/12 00:21	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		10/26/12 00:21	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/26/12 00:21	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		10/26/12 00:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/26/12 00:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/26/12 00:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/26/12 00:21	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/26/12 00:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/26/12 00:21	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/26/12 00:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		10/26/12 00:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/26/12 00:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/26/12 00:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/26/12 00:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/26/12 00:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/26/12 00:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/26/12 00:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/26/12 00:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/26/12 00:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/26/12 00:21	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/26/12 00:21	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/26/12 00:21	87-68-3	
2-Hexanone	ND	ug/kg	50.5	1		10/26/12 00:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/26/12 00:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/26/12 00:21	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		10/26/12 00:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.5	1		10/26/12 00:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/26/12 00:21	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-31 28'**      **Lab ID: 92135495007**      Collected: 10/15/12 15:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.0	1		10/26/12 00:21	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/26/12 00:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/26/12 00:21	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/26/12 00:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/26/12 00:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/26/12 00:21	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/26/12 00:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/26/12 00:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/26/12 00:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/26/12 00:21	108-67-8	
Vinyl acetate	ND	ug/kg	50.5	1		10/26/12 00:21	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		10/26/12 00:21	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		10/26/12 00:21	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		10/26/12 00:21	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/26/12 00:21	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	93 %		70-130	1		10/26/12 00:21	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		10/26/12 00:21	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/26/12 00:21	460-00-4	
1,2-Dichloroethane-d4 (S)	118 %		70-132	1		10/26/12 00:21	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	7.1 %		0.10	1		10/19/12 07:52		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-33 2'**      **Lab ID: 92135495008**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.7	1		10/26/12 00:40	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/26/12 00:40	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/26/12 00:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/26/12 00:40	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/26/12 00:40	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/26/12 00:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.7	1		10/26/12 00:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/26/12 00:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/26/12 00:40	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/26/12 00:40	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/26/12 00:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/26/12 00:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/26/12 00:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/26/12 00:40	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/26/12 00:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/26/12 00:40	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/26/12 00:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/26/12 00:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:40	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/26/12 00:40	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/26/12 00:40	87-68-3	
2-Hexanone	ND	ug/kg	46.9	1		10/26/12 00:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/26/12 00:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/26/12 00:40	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		10/26/12 00:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.9	1		10/26/12 00:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/26/12 00:40	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-33 2'**      **Lab ID: 92135495008**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/26/12 00:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/26/12 00:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/26/12 00:40	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/26/12 00:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/26/12 00:40	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/26/12 00:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/26/12 00:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/26/12 00:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:40	108-67-8	
Vinyl acetate	ND	ug/kg	46.9	1		10/26/12 00:40	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/26/12 00:40	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/26/12 00:40	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/26/12 00:40	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/26/12 00:40	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/26/12 00:40	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/26/12 00:40	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/26/12 00:40	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-132	1		10/26/12 00:40	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.2 %</b>		0.10	1		10/19/12 07:52		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-33 18'**      **Lab ID: 92135495009**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.3	1		10/26/12 00:58	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/26/12 00:58	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/26/12 00:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/26/12 00:58	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/26/12 00:58	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/26/12 00:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.3	1		10/26/12 00:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/26/12 00:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/26/12 00:58	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/26/12 00:58	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/26/12 00:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/26/12 00:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/26/12 00:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/26/12 00:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/26/12 00:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/26/12 00:58	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/26/12 00:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/26/12 00:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/26/12 00:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/26/12 00:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/26/12 00:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/26/12 00:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/26/12 00:58	87-68-3	
2-Hexanone	ND	ug/kg	46.7	1		10/26/12 00:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/26/12 00:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/26/12 00:58	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		10/26/12 00:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.7	1		10/26/12 00:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/26/12 00:58	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-33 18'**      **Lab ID: 92135495009**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/26/12 00:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/26/12 00:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/26/12 00:58	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/26/12 00:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/26/12 00:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/26/12 00:58	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/26/12 00:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/26/12 00:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/26/12 00:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/26/12 00:58	108-67-8	
Vinyl acetate	ND	ug/kg	46.7	1		10/26/12 00:58	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/26/12 00:58	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/26/12 00:58	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/26/12 00:58	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/26/12 00:58	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	97 %		70-130	1		10/26/12 00:58	1868-53-7	
Toluene-d8 (S)	94 %		70-130	1		10/26/12 00:58	2037-26-5	
4-Bromofluorobenzene (S)	87 %		70-130	1		10/26/12 00:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-132	1		10/26/12 00:58	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>12.2 %</b>		0.10	1		10/19/12 07:53		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-33 32'**      **Lab ID: 92135495010**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	107	1		10/26/12 01:17	67-64-1	
Benzene	ND	ug/kg	5.3	1		10/26/12 01:17	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		10/26/12 01:17	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		10/26/12 01:17	75-27-4	
Bromoform	ND	ug/kg	5.3	1		10/26/12 01:17	75-25-2	
Bromomethane	ND	ug/kg	10.7	1		10/26/12 01:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	107	1		10/26/12 01:17	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.3	1		10/26/12 01:17	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	108-90-7	
Chloroethane	ND	ug/kg	10.7	1		10/26/12 01:17	75-00-3	
Chloroform	ND	ug/kg	5.3	1		10/26/12 01:17	67-66-3	
Chloromethane	ND	ug/kg	10.7	1		10/26/12 01:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		10/26/12 01:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		10/26/12 01:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.3	1		10/26/12 01:17	96-12-8	
Dibromochloromethane	ND	ug/kg	5.3	1		10/26/12 01:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		10/26/12 01:17	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		10/26/12 01:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.7	1		10/26/12 01:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		10/26/12 01:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/26/12 01:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		10/26/12 01:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		10/26/12 01:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		10/26/12 01:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		10/26/12 01:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		10/26/12 01:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/26/12 01:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		10/26/12 01:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.3	1		10/26/12 01:17	108-20-3	
Ethylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		10/26/12 01:17	87-68-3	
2-Hexanone	ND	ug/kg	53.3	1		10/26/12 01:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		10/26/12 01:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		10/26/12 01:17	99-87-6	
Methylene Chloride	ND	ug/kg	21.3	1		10/26/12 01:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	53.3	1		10/26/12 01:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		10/26/12 01:17	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-33 32'**      **Lab ID: 92135495010**      Collected: 10/15/12 16:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.3	1		10/26/12 01:17	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	103-65-1	
Styrene	ND	ug/kg	5.3	1		10/26/12 01:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		10/26/12 01:17	127-18-4	
Toluene	ND	ug/kg	5.3	1		10/26/12 01:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		10/26/12 01:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		10/26/12 01:17	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		10/26/12 01:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		10/26/12 01:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		10/26/12 01:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		10/26/12 01:17	108-67-8	
Vinyl acetate	ND	ug/kg	53.3	1		10/26/12 01:17	108-05-4	
Vinyl chloride	ND	ug/kg	10.7	1		10/26/12 01:17	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		10/26/12 01:17	1330-20-7	
m&p-Xylene	ND	ug/kg	10.7	1		10/26/12 01:17	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1		10/26/12 01:17	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	95 %		70-130	1		10/26/12 01:17	1868-53-7	
Toluene-d8 (S)	94 %		70-130	1		10/26/12 01:17	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/26/12 01:17	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-132	1		10/26/12 01:17	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>17.0 %</b>		0.10	1		10/19/12 07:53		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-36 12'**      **Lab ID: 92135495011**      Collected: 10/15/12 16:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.6	1		10/26/12 01:36	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/26/12 01:36	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/26/12 01:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/26/12 01:36	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/26/12 01:36	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/26/12 01:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.6	1		10/26/12 01:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/26/12 01:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/26/12 01:36	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/26/12 01:36	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/26/12 01:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/26/12 01:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/26/12 01:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/26/12 01:36	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/26/12 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/26/12 01:36	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/26/12 01:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/26/12 01:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/26/12 01:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/26/12 01:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/26/12 01:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/26/12 01:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/26/12 01:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/26/12 01:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/26/12 01:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/26/12 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/26/12 01:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/26/12 01:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/26/12 01:36	87-68-3	
2-Hexanone	ND	ug/kg	44.3	1		10/26/12 01:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/26/12 01:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/26/12 01:36	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		10/26/12 01:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.3	1		10/26/12 01:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/26/12 01:36	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-36 12'**      **Lab ID: 92135495011**      Collected: 10/15/12 16:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/26/12 01:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/26/12 01:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/26/12 01:36	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/26/12 01:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/26/12 01:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/26/12 01:36	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/26/12 01:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/26/12 01:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/26/12 01:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/26/12 01:36	108-67-8	
Vinyl acetate	ND	ug/kg	44.3	1		10/26/12 01:36	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/26/12 01:36	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/26/12 01:36	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/26/12 01:36	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/26/12 01:36	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	108 %		70-130	1		10/26/12 01:36	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/26/12 01:36	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/26/12 01:36	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-132	1		10/26/12 01:36	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.3 %</b>		0.10	1		10/19/12 07:53		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-35 14'**      **Lab ID: 92135495012**      Collected: 10/16/12 09:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	78.5	1		10/26/12 01:54	67-64-1	
Benzene	ND	ug/kg	3.9	1		10/26/12 01:54	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		10/26/12 01:54	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		10/26/12 01:54	75-27-4	
Bromoform	ND	ug/kg	3.9	1		10/26/12 01:54	75-25-2	
Bromomethane	ND	ug/kg	7.9	1		10/26/12 01:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	78.5	1		10/26/12 01:54	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	3.9	1		10/26/12 01:54	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	108-90-7	
Chloroethane	ND	ug/kg	7.9	1		10/26/12 01:54	75-00-3	
Chloroform	ND	ug/kg	3.9	1		10/26/12 01:54	67-66-3	
Chloromethane	ND	ug/kg	7.9	1		10/26/12 01:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		10/26/12 01:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		10/26/12 01:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.9	1		10/26/12 01:54	96-12-8	
Dibromochloromethane	ND	ug/kg	3.9	1		10/26/12 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		10/26/12 01:54	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		10/26/12 01:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	7.9	1		10/26/12 01:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		10/26/12 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		10/26/12 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		10/26/12 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		10/26/12 01:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		10/26/12 01:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		10/26/12 01:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		10/26/12 01:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		10/26/12 01:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		10/26/12 01:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	3.9	1		10/26/12 01:54	108-20-3	
Ethylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		10/26/12 01:54	87-68-3	
2-Hexanone	ND	ug/kg	39.3	1		10/26/12 01:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.9	1		10/26/12 01:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		10/26/12 01:54	99-87-6	
Methylene Chloride	ND	ug/kg	15.7	1		10/26/12 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	39.3	1		10/26/12 01:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		10/26/12 01:54	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-35 14'**      **Lab ID: 92135495012**      Collected: 10/16/12 09:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	3.9	1		10/26/12 01:54	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	103-65-1	
Styrene	ND	ug/kg	3.9	1		10/26/12 01:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		10/26/12 01:54	127-18-4	
Toluene	ND	ug/kg	3.9	1		10/26/12 01:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		10/26/12 01:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		10/26/12 01:54	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		10/26/12 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		10/26/12 01:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		10/26/12 01:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		10/26/12 01:54	108-67-8	
Vinyl acetate	ND	ug/kg	39.3	1		10/26/12 01:54	108-05-4	
Vinyl chloride	ND	ug/kg	7.9	1		10/26/12 01:54	75-01-4	
Xylene (Total)	ND	ug/kg	7.9	1		10/26/12 01:54	1330-20-7	
m&p-Xylene	ND	ug/kg	7.9	1		10/26/12 01:54	179601-23-1	
o-Xylene	ND	ug/kg	3.9	1		10/26/12 01:54	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/26/12 01:54	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/26/12 01:54	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130	1		10/26/12 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	116 %		70-132	1		10/26/12 01:54	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.3 %</b>		0.10	1		10/19/12 07:54		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-35 16'**      **Lab ID: 92135495013**      Collected: 10/16/12 09:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	103	1		10/26/12 02:13	67-64-1	
Benzene	ND	ug/kg	5.1	1		10/26/12 02:13	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		10/26/12 02:13	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		10/26/12 02:13	75-27-4	
Bromoform	ND	ug/kg	5.1	1		10/26/12 02:13	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		10/26/12 02:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		10/26/12 02:13	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		10/26/12 02:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		10/26/12 02:13	75-00-3	
Chloroform	ND	ug/kg	5.1	1		10/26/12 02:13	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		10/26/12 02:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		10/26/12 02:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		10/26/12 02:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		10/26/12 02:13	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		10/26/12 02:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		10/26/12 02:13	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		10/26/12 02:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		10/26/12 02:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		10/26/12 02:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/26/12 02:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/26/12 02:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		10/26/12 02:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		10/26/12 02:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		10/26/12 02:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		10/26/12 02:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/26/12 02:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/26/12 02:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		10/26/12 02:13	108-20-3	
Ethylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		10/26/12 02:13	87-68-3	
2-Hexanone	ND	ug/kg	51.4	1		10/26/12 02:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		10/26/12 02:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		10/26/12 02:13	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		10/26/12 02:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.4	1		10/26/12 02:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		10/26/12 02:13	1634-04-4	



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

**Sample: B-35 16'**      **Lab ID: 92135495013**      Collected: 10/16/12 09:10      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.1	1		10/26/12 02:13	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	103-65-1	
Styrene	ND	ug/kg	5.1	1		10/26/12 02:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		10/26/12 02:13	127-18-4	
Toluene	ND	ug/kg	5.1	1		10/26/12 02:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		10/26/12 02:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		10/26/12 02:13	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		10/26/12 02:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		10/26/12 02:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		10/26/12 02:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		10/26/12 02:13	108-67-8	
Vinyl acetate	ND	ug/kg	51.4	1		10/26/12 02:13	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		10/26/12 02:13	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		10/26/12 02:13	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		10/26/12 02:13	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		10/26/12 02:13	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	94 %		70-130	1		10/26/12 02:13	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/26/12 02:13	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/26/12 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	116 %		70-132	1		10/26/12 02:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>12.7 %</b>		0.10	1		10/19/12 07:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-34 2'**      **Lab ID: 92135495014**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.8	1		10/26/12 02:31	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/26/12 02:31	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/26/12 02:31	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/26/12 02:31	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/26/12 02:31	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		10/26/12 02:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.8	1		10/26/12 02:31	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/26/12 02:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		10/26/12 02:31	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/26/12 02:31	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		10/26/12 02:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/26/12 02:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/26/12 02:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/26/12 02:31	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/26/12 02:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/26/12 02:31	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/26/12 02:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		10/26/12 02:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/26/12 02:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/26/12 02:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/26/12 02:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/26/12 02:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/26/12 02:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/26/12 02:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/26/12 02:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/26/12 02:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/26/12 02:31	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/26/12 02:31	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/26/12 02:31	87-68-3	
2-Hexanone	ND	ug/kg	44.9	1		10/26/12 02:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/26/12 02:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/26/12 02:31	99-87-6	
Methylene Chloride	ND	ug/kg	18.0	1		10/26/12 02:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.9	1		10/26/12 02:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/26/12 02:31	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-34 2'**      **Lab ID: 92135495014**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/26/12 02:31	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/26/12 02:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/26/12 02:31	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/26/12 02:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/26/12 02:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/26/12 02:31	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/26/12 02:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/26/12 02:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/26/12 02:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/26/12 02:31	108-67-8	
Vinyl acetate	ND	ug/kg	44.9	1		10/26/12 02:31	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		10/26/12 02:31	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		10/26/12 02:31	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		10/26/12 02:31	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/26/12 02:31	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/26/12 02:31	1868-53-7	
Toluene-d8 (S)	106 %		70-130	1		10/26/12 02:31	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/26/12 02:31	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		10/26/12 02:31	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.5 %</b>		0.10	1		10/19/12 07:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-34 22'**      **Lab ID: 92135495015**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.7	1		10/26/12 02:50	67-64-1	
Benzene	ND	ug/kg	4.3	1		10/26/12 02:50	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		10/26/12 02:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		10/26/12 02:50	75-27-4	
Bromoform	ND	ug/kg	4.3	1		10/26/12 02:50	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		10/26/12 02:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.7	1		10/26/12 02:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		10/26/12 02:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		10/26/12 02:50	75-00-3	
Chloroform	ND	ug/kg	4.3	1		10/26/12 02:50	67-66-3	
Chloromethane	ND	ug/kg	8.7	1		10/26/12 02:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		10/26/12 02:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		10/26/12 02:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		10/26/12 02:50	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		10/26/12 02:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		10/26/12 02:50	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		10/26/12 02:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		10/26/12 02:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		10/26/12 02:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/26/12 02:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/26/12 02:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		10/26/12 02:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		10/26/12 02:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		10/26/12 02:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		10/26/12 02:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/26/12 02:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/26/12 02:50	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		10/26/12 02:50	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		10/26/12 02:50	87-68-3	
2-Hexanone	ND	ug/kg	43.3	1		10/26/12 02:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		10/26/12 02:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		10/26/12 02:50	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		10/26/12 02:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.3	1		10/26/12 02:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		10/26/12 02:50	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

**Sample: B-34 22'**      **Lab ID: 92135495015**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.3	1		10/26/12 02:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	103-65-1	
Styrene	ND	ug/kg	4.3	1		10/26/12 02:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		10/26/12 02:50	127-18-4	
Toluene	ND	ug/kg	4.3	1		10/26/12 02:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		10/26/12 02:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		10/26/12 02:50	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		10/26/12 02:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		10/26/12 02:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		10/26/12 02:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		10/26/12 02:50	108-67-8	
Vinyl acetate	ND	ug/kg	43.3	1		10/26/12 02:50	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		10/26/12 02:50	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		10/26/12 02:50	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		10/26/12 02:50	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		10/26/12 02:50	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	127 %		70-130	1		10/26/12 02:50	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/26/12 02:50	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/26/12 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	112 %		70-132	1		10/26/12 02:50	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.2 %</b>		0.10	1		10/19/12 07:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-29 2'**      **Lab ID: 92135495016**      Collected: 10/16/12 11:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	121	ug/kg	104	1		10/26/12 03:08	67-64-1	A+
Benzene	ND	ug/kg	5.2	1		10/26/12 03:08	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		10/26/12 03:08	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		10/26/12 03:08	75-27-4	
Bromoform	ND	ug/kg	5.2	1		10/26/12 03:08	75-25-2	
Bromomethane	ND	ug/kg	10.4	1		10/26/12 03:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	104	1		10/26/12 03:08	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		10/26/12 03:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	108-90-7	
Chloroethane	ND	ug/kg	10.4	1		10/26/12 03:08	75-00-3	
Chloroform	ND	ug/kg	5.2	1		10/26/12 03:08	67-66-3	
Chloromethane	ND	ug/kg	10.4	1		10/26/12 03:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		10/26/12 03:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		10/26/12 03:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		10/26/12 03:08	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		10/26/12 03:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		10/26/12 03:08	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		10/26/12 03:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.4	1		10/26/12 03:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		10/26/12 03:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/26/12 03:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/26/12 03:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		10/26/12 03:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		10/26/12 03:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		10/26/12 03:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		10/26/12 03:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/26/12 03:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/26/12 03:08	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		10/26/12 03:08	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		10/26/12 03:08	87-68-3	
2-Hexanone	ND	ug/kg	51.9	1		10/26/12 03:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		10/26/12 03:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		10/26/12 03:08	99-87-6	
Methylene Chloride	ND	ug/kg	20.8	1		10/26/12 03:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.9	1		10/26/12 03:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		10/26/12 03:08	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-29 2'**      **Lab ID: 92135495016**      Collected: 10/16/12 11:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.2	1		10/26/12 03:08	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	103-65-1	
Styrene	ND	ug/kg	5.2	1		10/26/12 03:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		10/26/12 03:08	127-18-4	
Toluene	ND	ug/kg	5.2	1		10/26/12 03:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		10/26/12 03:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		10/26/12 03:08	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		10/26/12 03:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		10/26/12 03:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		10/26/12 03:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		10/26/12 03:08	108-67-8	
Vinyl acetate	ND	ug/kg	51.9	1		10/26/12 03:08	108-05-4	
Vinyl chloride	ND	ug/kg	10.4	1		10/26/12 03:08	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		10/26/12 03:08	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	1		10/26/12 03:08	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		10/26/12 03:08	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	112 %		70-130	1		10/26/12 03:08	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/26/12 03:08	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/26/12 03:08	460-00-4	
1,2-Dichloroethane-d4 (S)	117 %		70-132	1		10/26/12 03:08	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.7 %</b>		0.10	1		10/19/12 07:54		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-29 14'**      **Lab ID: 92135495017**      Collected: 10/16/12 11:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	90.1	1		10/28/12 20:08	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/28/12 20:08	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/28/12 20:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/28/12 20:08	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/28/12 20:08	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		10/28/12 20:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.1	1		10/28/12 20:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/28/12 20:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		10/28/12 20:08	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/28/12 20:08	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		10/28/12 20:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/28/12 20:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/28/12 20:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/28/12 20:08	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/28/12 20:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/28/12 20:08	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/28/12 20:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		10/28/12 20:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/28/12 20:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/28/12 20:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/28/12 20:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/28/12 20:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/28/12 20:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/28/12 20:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/28/12 20:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/28/12 20:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/28/12 20:08	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/28/12 20:08	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/28/12 20:08	87-68-3	
2-Hexanone	ND	ug/kg	45.0	1		10/28/12 20:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/28/12 20:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/28/12 20:08	99-87-6	
Methylene Chloride	ND	ug/kg	18.0	1		10/28/12 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.0	1		10/28/12 20:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/28/12 20:08	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-29 14'**      **Lab ID: 92135495017**      Collected: 10/16/12 11:00      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/28/12 20:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/28/12 20:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/28/12 20:08	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/28/12 20:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/28/12 20:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/28/12 20:08	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/28/12 20:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/28/12 20:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/28/12 20:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/28/12 20:08	108-67-8	
Vinyl acetate	ND	ug/kg	45.0	1		10/28/12 20:08	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		10/28/12 20:08	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		10/28/12 20:08	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		10/28/12 20:08	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/28/12 20:08	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		10/28/12 20:08	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/28/12 20:08	2037-26-5	
4-Bromofluorobenzene (S)	101 %		70-130	1		10/28/12 20:08	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		10/28/12 20:08	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.0 %</b>		0.10	1		10/19/12 07:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-27 4'**      **Lab ID: 92135495018**      Collected: 10/16/12 11:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.9	1		10/28/12 20:27	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/28/12 20:27	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/28/12 20:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/28/12 20:27	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/28/12 20:27	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/28/12 20:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.9	1		10/28/12 20:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/28/12 20:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/28/12 20:27	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/28/12 20:27	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/28/12 20:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/28/12 20:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/28/12 20:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/28/12 20:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/28/12 20:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/28/12 20:27	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/28/12 20:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/28/12 20:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/28/12 20:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/28/12 20:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/28/12 20:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/28/12 20:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/28/12 20:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/28/12 20:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/28/12 20:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/28/12 20:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/28/12 20:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/28/12 20:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/28/12 20:27	87-68-3	
2-Hexanone	ND	ug/kg	44.4	1		10/28/12 20:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/28/12 20:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/28/12 20:27	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/28/12 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.4	1		10/28/12 20:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/28/12 20:27	1634-04-4	

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-27 4'**      **Lab ID: 92135495018**      Collected: 10/16/12 11:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/28/12 20:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/28/12 20:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/28/12 20:27	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/28/12 20:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/28/12 20:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/28/12 20:27	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/28/12 20:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/28/12 20:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/28/12 20:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/28/12 20:27	108-67-8	
Vinyl acetate	ND	ug/kg	44.4	1		10/28/12 20:27	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/28/12 20:27	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/28/12 20:27	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/28/12 20:27	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/28/12 20:27	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	92 %		70-130	1		10/28/12 20:27	1868-53-7	
Toluene-d8 (S)	105 %		70-130	1		10/28/12 20:27	2037-26-5	
4-Bromofluorobenzene (S)	103 %		70-130	1		10/28/12 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		10/28/12 20:27	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.4 %</b>		0.10	1		10/19/12 07:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-27 12'**      **Lab ID: 92135495019**      Collected: 10/16/12 11:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	103	1		10/28/12 20:45	67-64-1	
Benzene	ND	ug/kg	5.2	1		10/28/12 20:45	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		10/28/12 20:45	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		10/28/12 20:45	75-27-4	
Bromoform	ND	ug/kg	5.2	1		10/28/12 20:45	75-25-2	
Bromomethane	ND	ug/kg	10.3	1		10/28/12 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	103	1		10/28/12 20:45	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.2	1		10/28/12 20:45	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	108-90-7	
Chloroethane	ND	ug/kg	10.3	1		10/28/12 20:45	75-00-3	
Chloroform	ND	ug/kg	5.2	1		10/28/12 20:45	67-66-3	
Chloromethane	ND	ug/kg	10.3	1		10/28/12 20:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		10/28/12 20:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		10/28/12 20:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.2	1		10/28/12 20:45	96-12-8	
Dibromochloromethane	ND	ug/kg	5.2	1		10/28/12 20:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		10/28/12 20:45	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		10/28/12 20:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.3	1		10/28/12 20:45	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		10/28/12 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/28/12 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		10/28/12 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		10/28/12 20:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		10/28/12 20:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		10/28/12 20:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		10/28/12 20:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/28/12 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		10/28/12 20:45	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.2	1		10/28/12 20:45	108-20-3	
Ethylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		10/28/12 20:45	87-68-3	
2-Hexanone	ND	ug/kg	51.6	1		10/28/12 20:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		10/28/12 20:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		10/28/12 20:45	99-87-6	
Methylene Chloride	ND	ug/kg	20.6	1		10/28/12 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	51.6	1		10/28/12 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		10/28/12 20:45	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-27 12'**      **Lab ID: 92135495019**      Collected: 10/16/12 11:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.2	1		10/28/12 20:45	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	103-65-1	
Styrene	ND	ug/kg	5.2	1		10/28/12 20:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		10/28/12 20:45	127-18-4	
Toluene	ND	ug/kg	5.2	1		10/28/12 20:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		10/28/12 20:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		10/28/12 20:45	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		10/28/12 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		10/28/12 20:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		10/28/12 20:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		10/28/12 20:45	108-67-8	
Vinyl acetate	ND	ug/kg	51.6	1		10/28/12 20:45	108-05-4	
Vinyl chloride	ND	ug/kg	10.3	1		10/28/12 20:45	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		10/28/12 20:45	1330-20-7	
m&p-Xylene	ND	ug/kg	10.3	1		10/28/12 20:45	179601-23-1	
o-Xylene	ND	ug/kg	5.2	1		10/28/12 20:45	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	85 %		70-130	1		10/28/12 20:45	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/28/12 20:45	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130	1		10/28/12 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		10/28/12 20:45	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>13.0 %</b>		0.10	1		10/19/12 07:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 2'**      **Lab ID: 92135495020**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	106	ug/kg	96.0	1		10/28/12 21:04	67-64-1	A+
Benzene	ND	ug/kg	4.8	1		10/28/12 21:04	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/28/12 21:04	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/28/12 21:04	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/28/12 21:04	75-25-2	
Bromomethane	ND	ug/kg	9.6	1		10/28/12 21:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.0	1		10/28/12 21:04	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/28/12 21:04	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	108-90-7	
Chloroethane	ND	ug/kg	9.6	1		10/28/12 21:04	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/28/12 21:04	67-66-3	
Chloromethane	ND	ug/kg	9.6	1		10/28/12 21:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/28/12 21:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/28/12 21:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/28/12 21:04	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/28/12 21:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/28/12 21:04	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/28/12 21:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.6	1		10/28/12 21:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/28/12 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/28/12 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/28/12 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/28/12 21:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/28/12 21:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/28/12 21:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/28/12 21:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/28/12 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/28/12 21:04	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/28/12 21:04	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/28/12 21:04	87-68-3	
2-Hexanone	ND	ug/kg	48.0	1		10/28/12 21:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/28/12 21:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/28/12 21:04	99-87-6	
Methylene Chloride	ND	ug/kg	19.2	1		10/28/12 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.0	1		10/28/12 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/28/12 21:04	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 2'**      **Lab ID: 92135495020**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/28/12 21:04	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/28/12 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/28/12 21:04	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/28/12 21:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/28/12 21:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/28/12 21:04	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/28/12 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/28/12 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/28/12 21:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/28/12 21:04	108-67-8	
Vinyl acetate	ND	ug/kg	48.0	1		10/28/12 21:04	108-05-4	
Vinyl chloride	ND	ug/kg	9.6	1		10/28/12 21:04	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		10/28/12 21:04	1330-20-7	
m&p-Xylene	ND	ug/kg	9.6	1		10/28/12 21:04	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/28/12 21:04	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	104 %		70-130	1		10/28/12 21:04	1868-53-7	
Toluene-d8 (S)	99 %		70-130	1		10/28/12 21:04	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		10/28/12 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-132	1		10/28/12 21:04	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>5.5 %</b>		0.10	1		10/19/12 07:56		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 6'**      **Lab ID: 92135495021**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	99.4	1		10/29/12 15:24	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/29/12 15:24	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/29/12 15:24	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/29/12 15:24	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/29/12 15:24	75-25-2	
Bromomethane	ND	ug/kg	9.9	1		10/29/12 15:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	99.4	1		10/29/12 15:24	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/29/12 15:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	108-90-7	
Chloroethane	ND	ug/kg	9.9	1		10/29/12 15:24	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/29/12 15:24	67-66-3	
Chloromethane	ND	ug/kg	9.9	1		10/29/12 15:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 15:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 15:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/29/12 15:24	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/29/12 15:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/29/12 15:24	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/29/12 15:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.9	1		10/29/12 15:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 15:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 15:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 15:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 15:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 15:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 15:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 15:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/29/12 15:24	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/29/12 15:24	87-68-3	
2-Hexanone	ND	ug/kg	49.7	1		10/29/12 15:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/29/12 15:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/29/12 15:24	99-87-6	
Methylene Chloride	ND	ug/kg	19.9	1		10/29/12 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	49.7	1		10/29/12 15:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/29/12 15:24	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 6'**      **Lab ID: 92135495021**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.0	1		10/29/12 15:24	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/29/12 15:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/29/12 15:24	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/29/12 15:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 15:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 15:24	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/29/12 15:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/29/12 15:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/29/12 15:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 15:24	108-67-8	
Vinyl acetate	ND	ug/kg	49.7	1		10/29/12 15:24	108-05-4	
Vinyl chloride	ND	ug/kg	9.9	1		10/29/12 15:24	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		10/29/12 15:24	1330-20-7	
m&p-Xylene	ND	ug/kg	9.9	1		10/29/12 15:24	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/29/12 15:24	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		10/29/12 15:24	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/29/12 15:24	2037-26-5	
4-Bromofluorobenzene (S)	101 %		70-130	1		10/29/12 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	112 %		70-132	1		10/29/12 15:24	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>11.6 %</b>		0.10	1		10/19/12 07:59		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 12'**      **Lab ID: 92135495022**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.8	1		10/29/12 15:42	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/29/12 15:42	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/29/12 15:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/29/12 15:42	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/29/12 15:42	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/29/12 15:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.8	1		10/29/12 15:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/29/12 15:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/29/12 15:42	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/29/12 15:42	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/29/12 15:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 15:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 15:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/29/12 15:42	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/29/12 15:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/29/12 15:42	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/29/12 15:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/29/12 15:42	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 15:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 15:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 15:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 15:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 15:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 15:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 15:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 15:42	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/29/12 15:42	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/29/12 15:42	87-68-3	
2-Hexanone	ND	ug/kg	48.4	1		10/29/12 15:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/29/12 15:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/29/12 15:42	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/29/12 15:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.4	1		10/29/12 15:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/29/12 15:42	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-26 12'**      **Lab ID: 92135495022**      Collected: 10/16/12 12:22      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/29/12 15:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/29/12 15:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/29/12 15:42	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/29/12 15:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 15:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 15:42	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/29/12 15:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/29/12 15:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/29/12 15:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 15:42	108-67-8	
Vinyl acetate	ND	ug/kg	48.4	1		10/29/12 15:42	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/29/12 15:42	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/29/12 15:42	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/29/12 15:42	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/29/12 15:42	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	92 %		70-130	1		10/29/12 15:42	1868-53-7	
Toluene-d8 (S)	113 %		70-130	1		10/29/12 15:42	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130	1		10/29/12 15:42	460-00-4	
1,2-Dichloroethane-d4 (S)	128 %		70-132	1		10/29/12 15:42	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.3 %</b>		0.10	1		10/19/12 07:59		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-25 2'**      **Lab ID: 92135495023**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	186	ug/kg	92.7	1		10/29/12 16:01	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/29/12 16:01	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/29/12 16:01	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/29/12 16:01	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/29/12 16:01	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/29/12 16:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.7	1		10/29/12 16:01	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/29/12 16:01	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/29/12 16:01	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/29/12 16:01	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/29/12 16:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 16:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 16:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/29/12 16:01	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/29/12 16:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/29/12 16:01	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/29/12 16:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/29/12 16:01	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 16:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 16:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 16:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 16:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 16:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 16:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 16:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 16:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 16:01	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/29/12 16:01	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/29/12 16:01	87-68-3	
2-Hexanone	ND	ug/kg	46.3	1		10/29/12 16:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/29/12 16:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/29/12 16:01	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		10/29/12 16:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.3	1		10/29/12 16:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/29/12 16:01	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-25 2'**      **Lab ID: 92135495023**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/29/12 16:01	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/29/12 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/29/12 16:01	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/29/12 16:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 16:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 16:01	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/29/12 16:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/29/12 16:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/29/12 16:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 16:01	108-67-8	
Vinyl acetate	ND	ug/kg	46.3	1		10/29/12 16:01	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/29/12 16:01	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/29/12 16:01	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/29/12 16:01	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/29/12 16:01	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	96 %		70-130	1		10/29/12 16:01	1868-53-7	
Toluene-d8 (S)	106 %		70-130	1		10/29/12 16:01	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/29/12 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	119 %		70-132	1		10/29/12 16:01	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.3 %</b>		0.10	1		10/19/12 07:59		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-25 6'**      **Lab ID: 92135495024**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.2	1		10/29/12 16:19	67-64-1	
Benzene	ND	ug/kg	4.9	1		10/29/12 16:19	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		10/29/12 16:19	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		10/29/12 16:19	75-27-4	
Bromoform	ND	ug/kg	4.9	1		10/29/12 16:19	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/29/12 16:19	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.2	1		10/29/12 16:19	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		10/29/12 16:19	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/29/12 16:19	75-00-3	
Chloroform	ND	ug/kg	4.9	1		10/29/12 16:19	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/29/12 16:19	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		10/29/12 16:19	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		10/29/12 16:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		10/29/12 16:19	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		10/29/12 16:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/29/12 16:19	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		10/29/12 16:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/29/12 16:19	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 16:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 16:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 16:19	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 16:19	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 16:19	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 16:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 16:19	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		10/29/12 16:19	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/29/12 16:19	87-68-3	
2-Hexanone	ND	ug/kg	48.6	1		10/29/12 16:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/29/12 16:19	98-82-8	
p-Isopropyltoluene	<b>12.3</b>	ug/kg	4.9	1		10/29/12 16:19	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/29/12 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.6	1		10/29/12 16:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/29/12 16:19	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

**Sample: B-25 6'**      **Lab ID: 92135495024**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.9	1		10/29/12 16:19	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	103-65-1	
Styrene	ND	ug/kg	4.9	1		10/29/12 16:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		10/29/12 16:19	127-18-4	
Toluene	ND	ug/kg	4.9	1		10/29/12 16:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/29/12 16:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/29/12 16:19	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		10/29/12 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/29/12 16:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/29/12 16:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/29/12 16:19	108-67-8	
Vinyl acetate	ND	ug/kg	48.6	1		10/29/12 16:19	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/29/12 16:19	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/29/12 16:19	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/29/12 16:19	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		10/29/12 16:19	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	98 %		70-130	1		10/29/12 16:19	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		10/29/12 16:19	2037-26-5	
4-Bromofluorobenzene (S)	107 %		70-130	1		10/29/12 16:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-132	1		10/29/12 16:19	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>12.0 %</b>		0.10	1		10/19/12 08:00		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-25 10'**      **Lab ID: 92135495025**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	100	1		10/29/12 16:38	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/29/12 16:38	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/29/12 16:38	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/29/12 16:38	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/29/12 16:38	75-25-2	
Bromomethane	ND	ug/kg	10.0	1		10/29/12 16:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	100	1		10/29/12 16:38	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/29/12 16:38	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	108-90-7	
Chloroethane	ND	ug/kg	10.0	1		10/29/12 16:38	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/29/12 16:38	67-66-3	
Chloromethane	ND	ug/kg	10.0	1		10/29/12 16:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 16:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/29/12 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/29/12 16:38	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/29/12 16:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/29/12 16:38	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/29/12 16:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.0	1		10/29/12 16:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/29/12 16:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 16:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 16:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/29/12 16:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 16:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 16:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/29/12 16:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/29/12 16:38	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/29/12 16:38	87-68-3	
2-Hexanone	ND	ug/kg	50.2	1		10/29/12 16:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/29/12 16:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/29/12 16:38	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	1		10/29/12 16:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.2	1		10/29/12 16:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/29/12 16:38	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-25 10'**      **Lab ID: 92135495025**      Collected: 10/16/12 12:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.0	1		10/29/12 16:38	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/29/12 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/29/12 16:38	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/29/12 16:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/29/12 16:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/29/12 16:38	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/29/12 16:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/29/12 16:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/29/12 16:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/29/12 16:38	108-67-8	
Vinyl acetate	ND	ug/kg	50.2	1		10/29/12 16:38	108-05-4	
Vinyl chloride	ND	ug/kg	10.0	1		10/29/12 16:38	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		10/29/12 16:38	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	1		10/29/12 16:38	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/29/12 16:38	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	96 %		70-130	1		10/29/12 16:38	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/29/12 16:38	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/29/12 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-132	1		10/29/12 16:38	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.8 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-28 2'**      **Lab ID: 92135495026**      Collected: 10/16/12 13:30      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	82.1	1		10/29/12 16:56	67-64-1	
Benzene	ND	ug/kg	4.1	1		10/29/12 16:56	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		10/29/12 16:56	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		10/29/12 16:56	75-27-4	
Bromoform	ND	ug/kg	4.1	1		10/29/12 16:56	75-25-2	
Bromomethane	ND	ug/kg	8.2	1		10/29/12 16:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	82.1	1		10/29/12 16:56	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		10/29/12 16:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	108-90-7	
Chloroethane	ND	ug/kg	8.2	1		10/29/12 16:56	75-00-3	
Chloroform	ND	ug/kg	4.1	1		10/29/12 16:56	67-66-3	
Chloromethane	ND	ug/kg	8.2	1		10/29/12 16:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		10/29/12 16:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		10/29/12 16:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		10/29/12 16:56	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		10/29/12 16:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		10/29/12 16:56	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		10/29/12 16:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.2	1		10/29/12 16:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		10/29/12 16:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		10/29/12 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		10/29/12 16:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		10/29/12 16:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		10/29/12 16:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		10/29/12 16:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		10/29/12 16:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		10/29/12 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		10/29/12 16:56	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		10/29/12 16:56	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		10/29/12 16:56	87-68-3	
2-Hexanone	ND	ug/kg	41.0	1		10/29/12 16:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		10/29/12 16:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		10/29/12 16:56	99-87-6	
Methylene Chloride	ND	ug/kg	16.4	1		10/29/12 16:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.0	1		10/29/12 16:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		10/29/12 16:56	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-28 2'**      **Lab ID: 92135495026**      Collected: 10/16/12 13:30      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.1	1		10/29/12 16:56	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	103-65-1	
Styrene	ND	ug/kg	4.1	1		10/29/12 16:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		10/29/12 16:56	127-18-4	
Toluene	ND	ug/kg	4.1	1		10/29/12 16:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		10/29/12 16:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		10/29/12 16:56	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		10/29/12 16:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		10/29/12 16:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		10/29/12 16:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		10/29/12 16:56	108-67-8	
Vinyl acetate	ND	ug/kg	41.0	1		10/29/12 16:56	108-05-4	
Vinyl chloride	ND	ug/kg	8.2	1		10/29/12 16:56	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		10/29/12 16:56	1330-20-7	
m&p-Xylene	ND	ug/kg	8.2	1		10/29/12 16:56	179601-23-1	
o-Xylene	ND	ug/kg	4.1	1		10/29/12 16:56	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	112 %		70-130	1		10/29/12 16:56	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/29/12 16:56	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-130	1		10/29/12 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	114 %		70-132	1		10/29/12 16:56	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	4.7 %		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-28 14'**      **Lab ID: 92135495027**      Collected: 10/16/12 13:30      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	91.1	1		10/29/12 17:15	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/29/12 17:15	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/29/12 17:15	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/29/12 17:15	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/29/12 17:15	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/29/12 17:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.1	1		10/29/12 17:15	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/29/12 17:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/29/12 17:15	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/29/12 17:15	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/29/12 17:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 17:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 17:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/29/12 17:15	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/29/12 17:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/29/12 17:15	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/29/12 17:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/29/12 17:15	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 17:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 17:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 17:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 17:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 17:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 17:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 17:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 17:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 17:15	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/29/12 17:15	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/29/12 17:15	87-68-3	
2-Hexanone	ND	ug/kg	45.5	1		10/29/12 17:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/29/12 17:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/29/12 17:15	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		10/29/12 17:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.5	1		10/29/12 17:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/29/12 17:15	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-28 14'**      **Lab ID: 92135495027**      Collected: 10/16/12 13:30      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/29/12 17:15	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/29/12 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/29/12 17:15	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/29/12 17:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 17:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 17:15	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/29/12 17:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/29/12 17:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/29/12 17:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 17:15	108-67-8	
Vinyl acetate	ND	ug/kg	45.5	1		10/29/12 17:15	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/29/12 17:15	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/29/12 17:15	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/29/12 17:15	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/29/12 17:15	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	111 %		70-130	1		10/29/12 17:15	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		10/29/12 17:15	2037-26-5	
4-Bromofluorobenzene (S)	84 %		70-130	1		10/29/12 17:15	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		10/29/12 17:15	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.6 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 2'**      **Lab ID: 92135495028**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	105	ug/kg	96.9	1		10/29/12 17:33	67-64-1	A+
Benzene	ND	ug/kg	4.8	1		10/29/12 17:33	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/29/12 17:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/29/12 17:33	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/29/12 17:33	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/29/12 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.9	1		10/29/12 17:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/29/12 17:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/29/12 17:33	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/29/12 17:33	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/29/12 17:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 17:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/29/12 17:33	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/29/12 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/29/12 17:33	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/29/12 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/29/12 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/29/12 17:33	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/29/12 17:33	87-68-3	
2-Hexanone	ND	ug/kg	48.4	1		10/29/12 17:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/29/12 17:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/29/12 17:33	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/29/12 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.4	1		10/29/12 17:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/29/12 17:33	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 2'**      **Lab ID: 92135495028**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/29/12 17:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/29/12 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/29/12 17:33	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/29/12 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 17:33	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/29/12 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/29/12 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/29/12 17:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:33	108-67-8	
Vinyl acetate	ND	ug/kg	48.4	1		10/29/12 17:33	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/29/12 17:33	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/29/12 17:33	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/29/12 17:33	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/29/12 17:33	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	93 %		70-130	1		10/29/12 17:33	1868-53-7	
Toluene-d8 (S)	108 %		70-130	1		10/29/12 17:33	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		10/29/12 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	119 %		70-132	1		10/29/12 17:33	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.0 %</b>		0.10	1		10/19/12 08:01		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 12'**      **Lab ID: 92135495029**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.7	1		10/29/12 17:52	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/29/12 17:52	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/29/12 17:52	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/29/12 17:52	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/29/12 17:52	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/29/12 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.7	1		10/29/12 17:52	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/29/12 17:52	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/29/12 17:52	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/29/12 17:52	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/29/12 17:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 17:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/29/12 17:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/29/12 17:52	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/29/12 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/29/12 17:52	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/29/12 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/29/12 17:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/29/12 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/29/12 17:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/29/12 17:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/29/12 17:52	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/29/12 17:52	87-68-3	
2-Hexanone	ND	ug/kg	48.3	1		10/29/12 17:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/29/12 17:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/29/12 17:52	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		10/29/12 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.3	1		10/29/12 17:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/29/12 17:52	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 12'**      **Lab ID: 92135495029**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/29/12 17:52	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/29/12 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/29/12 17:52	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/29/12 17:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/29/12 17:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/29/12 17:52	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/29/12 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/29/12 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/29/12 17:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/29/12 17:52	108-67-8	
Vinyl acetate	ND	ug/kg	48.3	1		10/29/12 17:52	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/29/12 17:52	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/29/12 17:52	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/29/12 17:52	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/29/12 17:52	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	91 %		70-130	1		10/29/12 17:52	1868-53-7	
Toluene-d8 (S)	99 %		70-130	1		10/29/12 17:52	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/29/12 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/29/12 17:52	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.3 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 14'**      **Lab ID: 92135495030**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	95.0	1		10/29/12 18:10	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/29/12 18:10	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/29/12 18:10	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/29/12 18:10	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/29/12 18:10	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/29/12 18:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	95.0	1		10/29/12 18:10	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/29/12 18:10	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/29/12 18:10	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/29/12 18:10	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/29/12 18:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 18:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 18:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/29/12 18:10	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/29/12 18:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/29/12 18:10	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/29/12 18:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/29/12 18:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 18:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 18:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 18:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 18:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 18:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 18:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 18:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 18:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 18:10	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/29/12 18:10	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/29/12 18:10	87-68-3	
2-Hexanone	ND	ug/kg	47.5	1		10/29/12 18:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/29/12 18:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/29/12 18:10	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		10/29/12 18:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.5	1		10/29/12 18:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/29/12 18:10	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-24 14'**      **Lab ID: 92135495030**      Collected: 10/16/12 14:25      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/29/12 18:10	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/29/12 18:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/29/12 18:10	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/29/12 18:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 18:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 18:10	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/29/12 18:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/29/12 18:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/29/12 18:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 18:10	108-67-8	
Vinyl acetate	ND	ug/kg	47.5	1		10/29/12 18:10	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/29/12 18:10	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/29/12 18:10	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/29/12 18:10	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/29/12 18:10	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	118 %		70-130	1		10/29/12 18:10	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/29/12 18:10	2037-26-5	
4-Bromofluorobenzene (S)	100 %		70-130	1		10/29/12 18:10	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-132	1		10/29/12 18:10	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.4 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-23 2'**      **Lab ID: 92135495031**      Collected: 10/16/12 14:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	87.7	1		10/29/12 18:29	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/29/12 18:29	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/29/12 18:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/29/12 18:29	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/29/12 18:29	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		10/29/12 18:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	87.7	1		10/29/12 18:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/29/12 18:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		10/29/12 18:29	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/29/12 18:29	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		10/29/12 18:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/29/12 18:29	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/29/12 18:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/29/12 18:29	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/29/12 18:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/29/12 18:29	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/29/12 18:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		10/29/12 18:29	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/29/12 18:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/29/12 18:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/29/12 18:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/29/12 18:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/29/12 18:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/29/12 18:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/29/12 18:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/29/12 18:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/29/12 18:29	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/29/12 18:29	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/29/12 18:29	87-68-3	
2-Hexanone	ND	ug/kg	43.9	1		10/29/12 18:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/29/12 18:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/29/12 18:29	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		10/29/12 18:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.9	1		10/29/12 18:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/29/12 18:29	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-23 2'**      **Lab ID: 92135495031**      Collected: 10/16/12 14:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/29/12 18:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/29/12 18:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/29/12 18:29	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/29/12 18:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/29/12 18:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/29/12 18:29	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/29/12 18:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/29/12 18:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/29/12 18:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/29/12 18:29	108-67-8	
Vinyl acetate	ND	ug/kg	43.9	1		10/29/12 18:29	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		10/29/12 18:29	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		10/29/12 18:29	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		10/29/12 18:29	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/29/12 18:29	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/29/12 18:29	1868-53-7	
Toluene-d8 (S)	113 %		70-130	1		10/29/12 18:29	2037-26-5	
4-Bromofluorobenzene (S)	93 %		70-130	1		10/29/12 18:29	460-00-4	
1,2-Dichloroethane-d4 (S)	127 %		70-132	1		10/29/12 18:29	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.7 %</b>		0.10	1		10/19/12 08:01		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-23 14'**      **Lab ID: 92135495032**      Collected: 10/16/12 14:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.1	1		10/29/12 18:47	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/29/12 18:47	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/29/12 18:47	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/29/12 18:47	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/29/12 18:47	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/29/12 18:47	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.1	1		10/29/12 18:47	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/29/12 18:47	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/29/12 18:47	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/29/12 18:47	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/29/12 18:47	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/29/12 18:47	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/29/12 18:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/29/12 18:47	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/29/12 18:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/29/12 18:47	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/29/12 18:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/29/12 18:47	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/29/12 18:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/29/12 18:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/29/12 18:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/29/12 18:47	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/29/12 18:47	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/29/12 18:47	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/29/12 18:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/29/12 18:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/29/12 18:47	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/29/12 18:47	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/29/12 18:47	87-68-3	
2-Hexanone	ND	ug/kg	44.5	1		10/29/12 18:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/29/12 18:47	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/29/12 18:47	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/29/12 18:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.5	1		10/29/12 18:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/29/12 18:47	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-23 14'**      **Lab ID: 92135495032**      Collected: 10/16/12 14:50      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/29/12 18:47	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/29/12 18:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/29/12 18:47	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/29/12 18:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/29/12 18:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/29/12 18:47	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/29/12 18:47	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/29/12 18:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/29/12 18:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/29/12 18:47	108-67-8	
Vinyl acetate	ND	ug/kg	44.5	1		10/29/12 18:47	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/29/12 18:47	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/29/12 18:47	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/29/12 18:47	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/29/12 18:47	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	108 %		70-130	1		10/29/12 18:47	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/29/12 18:47	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/29/12 18:47	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-132	1		10/29/12 18:47	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.3 %</b>		0.10	1		10/19/12 08:01		

### ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-22 10'**      **Lab ID: 92135495033**      Collected: 10/16/12 15:20      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.7	1		10/29/12 19:06	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/29/12 19:06	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/29/12 19:06	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/29/12 19:06	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/29/12 19:06	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/29/12 19:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.7	1		10/29/12 19:06	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/29/12 19:06	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/29/12 19:06	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/29/12 19:06	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/29/12 19:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 19:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 19:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/29/12 19:06	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/29/12 19:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/29/12 19:06	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/29/12 19:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/29/12 19:06	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/29/12 19:06	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/29/12 19:06	87-68-3	
2-Hexanone	ND	ug/kg	46.9	1		10/29/12 19:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/29/12 19:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/29/12 19:06	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		10/29/12 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.9	1		10/29/12 19:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/29/12 19:06	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-22 10'**      **Lab ID: 92135495033**      Collected: 10/16/12 15:20      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/29/12 19:06	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/29/12 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/29/12 19:06	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/29/12 19:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 19:06	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/29/12 19:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/29/12 19:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/29/12 19:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:06	108-67-8	
Vinyl acetate	ND	ug/kg	46.9	1		10/29/12 19:06	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/29/12 19:06	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/29/12 19:06	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/29/12 19:06	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/29/12 19:06	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	101 %		70-130	1		10/29/12 19:06	1868-53-7	
Toluene-d8 (S)	113 %		70-130	1		10/29/12 19:06	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130	1		10/29/12 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	123 %		70-132	1		10/29/12 19:06	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.9 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-22 14'**      **Lab ID: 92135495034**      Collected: 10/16/12 15:20      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.9	1		10/29/12 19:24	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/29/12 19:24	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/29/12 19:24	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/29/12 19:24	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/29/12 19:24	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/29/12 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.9	1		10/29/12 19:24	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/29/12 19:24	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/29/12 19:24	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/29/12 19:24	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/29/12 19:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 19:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/29/12 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/29/12 19:24	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/29/12 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/29/12 19:24	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/29/12 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/29/12 19:24	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/29/12 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/29/12 19:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/29/12 19:24	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/29/12 19:24	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/29/12 19:24	87-68-3	
2-Hexanone	ND	ug/kg	47.5	1		10/29/12 19:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/29/12 19:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/29/12 19:24	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		10/29/12 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.5	1		10/29/12 19:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/29/12 19:24	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-22 14'**      **Lab ID: 92135495034**      Collected: 10/16/12 15:20      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/29/12 19:24	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/29/12 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/29/12 19:24	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/29/12 19:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/29/12 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/29/12 19:24	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/29/12 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/29/12 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/29/12 19:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/29/12 19:24	108-67-8	
Vinyl acetate	ND	ug/kg	47.5	1		10/29/12 19:24	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/29/12 19:24	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/29/12 19:24	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/29/12 19:24	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/29/12 19:24	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	113 %		70-130	1		10/29/12 19:24	1868-53-7	
Toluene-d8 (S)	107 %		70-130	1		10/29/12 19:24	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-130	1		10/29/12 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	115 %		70-132	1		10/29/12 19:24	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.9 %</b>		0.10	1		10/19/12 08:01		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-2 1'**      **Lab ID: 92135495035**      Collected: 10/16/12 15:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	216	ug/kg	101	1		10/29/12 19:43	67-64-1	A+
Benzene	ND	ug/kg	5.1	1		10/29/12 19:43	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		10/29/12 19:43	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		10/29/12 19:43	75-27-4	
Bromoform	ND	ug/kg	5.1	1		10/29/12 19:43	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		10/29/12 19:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		10/29/12 19:43	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.1	1		10/29/12 19:43	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		10/29/12 19:43	75-00-3	
Chloroform	ND	ug/kg	5.1	1		10/29/12 19:43	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		10/29/12 19:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		10/29/12 19:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		10/29/12 19:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.1	1		10/29/12 19:43	96-12-8	
Dibromochloromethane	ND	ug/kg	5.1	1		10/29/12 19:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		10/29/12 19:43	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		10/29/12 19:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		10/29/12 19:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		10/29/12 19:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/29/12 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		10/29/12 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		10/29/12 19:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		10/29/12 19:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		10/29/12 19:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		10/29/12 19:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/29/12 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		10/29/12 19:43	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.1	1		10/29/12 19:43	108-20-3	
Ethylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		10/29/12 19:43	87-68-3	
2-Hexanone	ND	ug/kg	50.5	1		10/29/12 19:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1		10/29/12 19:43	98-82-8	
p-Isopropyltoluene	8.0	ug/kg	5.1	1		10/29/12 19:43	99-87-6	
Methylene Chloride	ND	ug/kg	20.2	1		10/29/12 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.5	1		10/29/12 19:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		10/29/12 19:43	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-2 1'**      **Lab ID: 92135495035**      Collected: 10/16/12 15:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.1	1		10/29/12 19:43	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	103-65-1	
Styrene	ND	ug/kg	5.1	1		10/29/12 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		10/29/12 19:43	127-18-4	
Toluene	ND	ug/kg	5.1	1		10/29/12 19:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		10/29/12 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		10/29/12 19:43	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		10/29/12 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		10/29/12 19:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		10/29/12 19:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		10/29/12 19:43	108-67-8	
Vinyl acetate	ND	ug/kg	50.5	1		10/29/12 19:43	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		10/29/12 19:43	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		10/29/12 19:43	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		10/29/12 19:43	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1		10/29/12 19:43	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	107 %		70-130	1		10/29/12 19:43	1868-53-7	
Toluene-d8 (S)	105 %		70-130	1		10/29/12 19:43	2037-26-5	
4-Bromofluorobenzene (S)	115 %		70-130	1		10/29/12 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		10/29/12 19:43	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.6 %</b>		0.10	1		10/19/12 08:01		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-2 4'**      **Lab ID: 92135495036**      Collected: 10/16/12 15:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	122	ug/kg	97.2	1		10/29/12 20:01	67-64-1	
Benzene	ND	ug/kg	4.9	1		10/29/12 20:01	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		10/29/12 20:01	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		10/29/12 20:01	75-27-4	
Bromoform	ND	ug/kg	4.9	1		10/29/12 20:01	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/29/12 20:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.2	1		10/29/12 20:01	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		10/29/12 20:01	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/29/12 20:01	75-00-3	
Chloroform	ND	ug/kg	4.9	1		10/29/12 20:01	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/29/12 20:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		10/29/12 20:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		10/29/12 20:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		10/29/12 20:01	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		10/29/12 20:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/29/12 20:01	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		10/29/12 20:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/29/12 20:01	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 20:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 20:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/29/12 20:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 20:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 20:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/29/12 20:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 20:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 20:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/29/12 20:01	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		10/29/12 20:01	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/29/12 20:01	87-68-3	
2-Hexanone	ND	ug/kg	48.6	1		10/29/12 20:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/29/12 20:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/29/12 20:01	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/29/12 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.6	1		10/29/12 20:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/29/12 20:01	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-2 4'**      **Lab ID: 92135495036**      Collected: 10/16/12 15:40      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.9	1		10/29/12 20:01	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	103-65-1	
Styrene	ND	ug/kg	4.9	1		10/29/12 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		10/29/12 20:01	127-18-4	
Toluene	ND	ug/kg	4.9	1		10/29/12 20:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/29/12 20:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/29/12 20:01	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		10/29/12 20:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/29/12 20:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/29/12 20:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/29/12 20:01	108-67-8	
Vinyl acetate	ND	ug/kg	48.6	1		10/29/12 20:01	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/29/12 20:01	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/29/12 20:01	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/29/12 20:01	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		10/29/12 20:01	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	118 %		70-130	1		10/29/12 20:01	1868-53-7	
Toluene-d8 (S)	105 %		70-130	1		10/29/12 20:01	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	1		10/29/12 20:01	460-00-4	
1,2-Dichloroethane-d4 (S)	118 %		70-132	1		10/29/12 20:01	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	5.4 %		0.10	1		10/19/12 08:02		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-34 32'**      **Lab ID: 92135495037**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	92.7	1		10/29/12 20:20	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/29/12 20:20	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/29/12 20:20	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/29/12 20:20	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/29/12 20:20	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/29/12 20:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.7	1		10/29/12 20:20	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/29/12 20:20	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/29/12 20:20	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/29/12 20:20	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/29/12 20:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 20:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/29/12 20:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/29/12 20:20	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/29/12 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/29/12 20:20	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/29/12 20:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/29/12 20:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/29/12 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 20:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 20:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/29/12 20:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 20:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/29/12 20:20	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/29/12 20:20	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/29/12 20:20	87-68-3	
2-Hexanone	ND	ug/kg	46.3	1		10/29/12 20:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/29/12 20:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/29/12 20:20	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		10/29/12 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.3	1		10/29/12 20:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/29/12 20:20	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-34 32'**      **Lab ID: 92135495037**      Collected: 10/16/12 10:14      Received: 10/17/12 12:10      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/29/12 20:20	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/29/12 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/29/12 20:20	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/29/12 20:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/29/12 20:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/29/12 20:20	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/29/12 20:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/29/12 20:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/29/12 20:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/29/12 20:20	108-67-8	
Vinyl acetate	ND	ug/kg	46.3	1		10/29/12 20:20	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/29/12 20:20	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/29/12 20:20	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/29/12 20:20	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/29/12 20:20	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	95 %		70-130	1		10/29/12 20:20	1868-53-7	
Toluene-d8 (S)	94 %		70-130	1		10/29/12 20:20	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/29/12 20:20	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-132	1		10/29/12 20:20	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.5 %</b>		0.10	1		10/19/12 08:02		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-3 @ 1'**      **Lab ID: 92135495038**      Collected: 10/17/12 09:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	113	1		10/29/12 20:38	67-64-1	
Benzene	ND	ug/kg	5.6	1		10/29/12 20:38	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		10/29/12 20:38	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		10/29/12 20:38	75-27-4	
Bromoform	ND	ug/kg	5.6	1		10/29/12 20:38	75-25-2	
Bromomethane	ND	ug/kg	11.3	1		10/29/12 20:38	74-83-9	
2-Butanone (MEK)	ND	ug/kg	113	1		10/29/12 20:38	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.6	1		10/29/12 20:38	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	108-90-7	
Chloroethane	ND	ug/kg	11.3	1		10/29/12 20:38	75-00-3	
Chloroform	ND	ug/kg	5.6	1		10/29/12 20:38	67-66-3	
Chloromethane	ND	ug/kg	11.3	1		10/29/12 20:38	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		10/29/12 20:38	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		10/29/12 20:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.6	1		10/29/12 20:38	96-12-8	
Dibromochloromethane	ND	ug/kg	5.6	1		10/29/12 20:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		10/29/12 20:38	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		10/29/12 20:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.3	1		10/29/12 20:38	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		10/29/12 20:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		10/29/12 20:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		10/29/12 20:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		10/29/12 20:38	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		10/29/12 20:38	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		10/29/12 20:38	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		10/29/12 20:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		10/29/12 20:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		10/29/12 20:38	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.6	1		10/29/12 20:38	108-20-3	
Ethylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		10/29/12 20:38	87-68-3	
2-Hexanone	ND	ug/kg	56.3	1		10/29/12 20:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		10/29/12 20:38	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		10/29/12 20:38	99-87-6	
Methylene Chloride	ND	ug/kg	22.5	1		10/29/12 20:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	56.3	1		10/29/12 20:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		10/29/12 20:38	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-3 @ 1'**      **Lab ID: 92135495038**      Collected: 10/17/12 09:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.6	1		10/29/12 20:38	91-20-3	
n-Propylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	103-65-1	
Styrene	ND	ug/kg	5.6	1		10/29/12 20:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		10/29/12 20:38	127-18-4	
Toluene	ND	ug/kg	5.6	1		10/29/12 20:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		10/29/12 20:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		10/29/12 20:38	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		10/29/12 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		10/29/12 20:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		10/29/12 20:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		10/29/12 20:38	108-67-8	
Vinyl acetate	ND	ug/kg	56.3	1		10/29/12 20:38	108-05-4	
Vinyl chloride	ND	ug/kg	11.3	1		10/29/12 20:38	75-01-4	
Xylene (Total)	ND	ug/kg	11.3	1		10/29/12 20:38	1330-20-7	
m&p-Xylene	ND	ug/kg	11.3	1		10/29/12 20:38	179601-23-1	
o-Xylene	ND	ug/kg	5.6	1		10/29/12 20:38	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	91 %		70-130	1		10/29/12 20:38	1868-53-7	
Toluene-d8 (S)	107 %		70-130	1		10/29/12 20:38	2037-26-5	
4-Bromofluorobenzene (S)	103 %		70-130	1		10/29/12 20:38	460-00-4	
1,2-Dichloroethane-d4 (S)	112 %		70-132	1		10/29/12 20:38	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>6.7 %</b>		0.10	1		10/24/12 08:38		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-3 @ 3'**      **Lab ID: 92135495039**      Collected: 10/17/12 09:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.0	1		10/30/12 04:40	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/30/12 04:40	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/30/12 04:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/30/12 04:40	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/30/12 04:40	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/30/12 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.0	1		10/30/12 04:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/30/12 04:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/30/12 04:40	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/30/12 04:40	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/30/12 04:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 04:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 04:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/30/12 04:40	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/30/12 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/30/12 04:40	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/30/12 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/30/12 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 04:40	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/30/12 04:40	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/30/12 04:40	87-68-3	
2-Hexanone	ND	ug/kg	46.5	1		10/30/12 04:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/30/12 04:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/30/12 04:40	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		10/30/12 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.5	1		10/30/12 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/30/12 04:40	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-3 @ 3'**      **Lab ID: 92135495039**      Collected: 10/17/12 09:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/30/12 04:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/30/12 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/30/12 04:40	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/30/12 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 04:40	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/30/12 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/30/12 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/30/12 04:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 04:40	108-67-8	
Vinyl acetate	ND	ug/kg	46.5	1		10/30/12 04:40	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/30/12 04:40	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/30/12 04:40	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/30/12 04:40	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/30/12 04:40	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	100 %		70-130	1		10/30/12 04:40	1868-53-7	
Toluene-d8 (S)	95 %		70-130	1		10/30/12 04:40	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/30/12 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-132	1		10/30/12 04:40	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.5 %</b>		0.10	1		10/24/12 08:38		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-4 @ 2'**      **Lab ID: 92135495040**      Collected: 10/17/12 09:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.2	1		10/30/12 16:22	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 16:22	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 16:22	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 16:22	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 16:22	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/30/12 16:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.2	1		10/30/12 16:22	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 16:22	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/30/12 16:22	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 16:22	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/30/12 16:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 16:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 16:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 16:22	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 16:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 16:22	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 16:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/30/12 16:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:22	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 16:22	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 16:22	87-68-3	
2-Hexanone	ND	ug/kg	47.1	1		10/30/12 16:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 16:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 16:22	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		10/30/12 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.1	1		10/30/12 16:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 16:22	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-4 @ 2'**      **Lab ID: 92135495040**      Collected: 10/17/12 09:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 16:22	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 16:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 16:22	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 16:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 16:22	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 16:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 16:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 16:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:22	108-67-8	
Vinyl acetate	ND	ug/kg	47.1	1		10/30/12 16:22	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/30/12 16:22	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/30/12 16:22	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/30/12 16:22	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 16:22	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	106 %		70-130	1		10/30/12 16:22	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		10/30/12 16:22	2037-26-5	
4-Bromofluorobenzene (S)	83 %		70-130	1		10/30/12 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-132	1		10/30/12 16:22	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.2 %</b>		0.10	1		10/24/12 08:39		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-4 @ 8'**      **Lab ID: 92135495041**      Collected: 10/17/12 09:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	95.4	1		10/30/12 16:41	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/30/12 16:41	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/30/12 16:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/30/12 16:41	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/30/12 16:41	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/30/12 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	95.4	1		10/30/12 16:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/30/12 16:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/30/12 16:41	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/30/12 16:41	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/30/12 16:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 16:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 16:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/30/12 16:41	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/30/12 16:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/30/12 16:41	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/30/12 16:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/30/12 16:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 16:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 16:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 16:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 16:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 16:41	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/30/12 16:41	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/30/12 16:41	87-68-3	
2-Hexanone	ND	ug/kg	47.7	1		10/30/12 16:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/30/12 16:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/30/12 16:41	99-87-6	
Methylene Chloride	ND	ug/kg	19.1	1		10/30/12 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.7	1		10/30/12 16:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/30/12 16:41	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-4 @ 8'**      **Lab ID: 92135495041**      Collected: 10/17/12 09:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/30/12 16:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/30/12 16:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/30/12 16:41	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/30/12 16:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 16:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 16:41	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/30/12 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/30/12 16:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/30/12 16:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 16:41	108-67-8	
Vinyl acetate	ND	ug/kg	47.7	1		10/30/12 16:41	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/30/12 16:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/30/12 16:41	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/30/12 16:41	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/30/12 16:41	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	107 %		70-130	1		10/30/12 16:41	1868-53-7	
Toluene-d8 (S)	95 %		70-130	1		10/30/12 16:41	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/30/12 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	93 %		70-132	1		10/30/12 16:41	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.6 %</b>		0.10	1		10/24/12 08:39		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-1 @ 2'**      **Lab ID: 92135495042**      Collected: 10/17/12 10:00      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.1	1		10/30/12 16:59	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 16:59	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 16:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 16:59	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 16:59	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/30/12 16:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.1	1		10/30/12 16:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 16:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/30/12 16:59	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 16:59	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/30/12 16:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 16:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 16:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 16:59	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 16:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 16:59	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 16:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/30/12 16:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 16:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 16:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 16:59	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 16:59	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 16:59	87-68-3	
2-Hexanone	ND	ug/kg	47.0	1		10/30/12 16:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 16:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 16:59	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		10/30/12 16:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.0	1		10/30/12 16:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 16:59	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-1 @ 2'**      **Lab ID: 92135495042**      Collected: 10/17/12 10:00      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 16:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 16:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 16:59	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 16:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 16:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 16:59	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 16:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 16:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 16:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 16:59	108-67-8	
Vinyl acetate	ND	ug/kg	47.0	1		10/30/12 16:59	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/30/12 16:59	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/30/12 16:59	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/30/12 16:59	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 16:59	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	106 %		70-130	1		10/30/12 16:59	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/30/12 16:59	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/30/12 16:59	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>3.5 %</b>		0.10	1		10/24/12 08:41		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-7 @ 2'**      **Lab ID: 92135495043**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.5	1		10/30/12 17:18	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 17:18	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 17:18	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 17:18	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 17:18	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/30/12 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.5	1		10/30/12 17:18	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 17:18	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/30/12 17:18	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 17:18	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/30/12 17:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 17:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 17:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 17:18	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 17:18	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/30/12 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 17:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 17:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 17:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 17:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 17:18	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 17:18	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 17:18	87-68-3	
2-Hexanone	ND	ug/kg	47.2	1		10/30/12 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 17:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 17:18	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		10/30/12 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.2	1		10/30/12 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 17:18	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-7 @ 2'**      **Lab ID: 92135495043**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 17:18	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 17:18	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 17:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 17:18	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 17:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 17:18	108-67-8	
Vinyl acetate	ND	ug/kg	47.2	1		10/30/12 17:18	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/30/12 17:18	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/30/12 17:18	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/30/12 17:18	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 17:18	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	100 %		70-130	1		10/30/12 17:18	1868-53-7	
Toluene-d8 (S)	93 %		70-130	1		10/30/12 17:18	2037-26-5	
4-Bromofluorobenzene (S)	81 %		70-130	1		10/30/12 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-132	1		10/30/12 17:18	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.5 %</b>		0.10	1		10/24/12 08:41		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-1 @ 4'**      **Lab ID: 92135495044**      Collected: 10/17/12 10:00      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.8	1		10/30/12 17:36	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/30/12 17:36	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/30/12 17:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/30/12 17:36	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/30/12 17:36	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/30/12 17:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.8	1		10/30/12 17:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/30/12 17:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/30/12 17:36	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/30/12 17:36	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/30/12 17:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 17:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 17:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/30/12 17:36	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/30/12 17:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/30/12 17:36	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/30/12 17:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/30/12 17:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 17:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 17:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 17:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 17:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 17:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 17:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 17:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/30/12 17:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/30/12 17:36	87-68-3	
2-Hexanone	ND	ug/kg	48.4	1		10/30/12 17:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/30/12 17:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/30/12 17:36	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/30/12 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.4	1		10/30/12 17:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/30/12 17:36	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-1 @ 4'**      **Lab ID: 92135495044**      Collected: 10/17/12 10:00      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/30/12 17:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/30/12 17:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/30/12 17:36	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/30/12 17:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 17:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 17:36	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/30/12 17:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/30/12 17:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/30/12 17:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 17:36	108-67-8	
Vinyl acetate	ND	ug/kg	48.4	1		10/30/12 17:36	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/30/12 17:36	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/30/12 17:36	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/30/12 17:36	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/30/12 17:36	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	115 %		70-130	1		10/30/12 17:36	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/30/12 17:36	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		10/30/12 17:36	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>2.9 %</b>		0.10	1		10/24/12 08:41		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Project No.: 92135495

**Sample: B-7 @ 6'**      **Lab ID: 92135495045**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	116	ug/kg	89.1	1		10/30/12 17:55	67-64-1	A+
Benzene	ND	ug/kg	4.5	1		10/30/12 17:55	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/30/12 17:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/30/12 17:55	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/30/12 17:55	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/30/12 17:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.1	1		10/30/12 17:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/30/12 17:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/30/12 17:55	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/30/12 17:55	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/30/12 17:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 17:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/30/12 17:55	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/30/12 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/30/12 17:55	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/30/12 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/30/12 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 17:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 17:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/30/12 17:55	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/30/12 17:55	87-68-3	
2-Hexanone	ND	ug/kg	44.6	1		10/30/12 17:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/30/12 17:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/30/12 17:55	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/30/12 17:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.6	1		10/30/12 17:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/30/12 17:55	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-7 @ 6'**      **Lab ID: 92135495045**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/30/12 17:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/30/12 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/30/12 17:55	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/30/12 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 17:55	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/30/12 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/30/12 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/30/12 17:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 17:55	108-67-8	
Vinyl acetate	ND	ug/kg	44.6	1		10/30/12 17:55	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/30/12 17:55	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/30/12 17:55	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/30/12 17:55	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/30/12 17:55	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	112 %		70-130	1		10/30/12 17:55	1868-53-7	
Toluene-d8 (S)	94 %		70-130	1		10/30/12 17:55	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/30/12 17:55	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>13.3 %</b>		0.10	1		10/24/12 08:41		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-7 @ 10'**      **Lab ID: 92135495046**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	122	ug/kg	95.2	1		10/30/12 18:13	67-64-1	A+
Benzene	ND	ug/kg	4.8	1		10/30/12 18:13	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/30/12 18:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/30/12 18:13	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/30/12 18:13	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/30/12 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	95.2	1		10/30/12 18:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/30/12 18:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/30/12 18:13	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/30/12 18:13	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/30/12 18:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 18:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/30/12 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/30/12 18:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/30/12 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/30/12 18:13	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/30/12 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/30/12 18:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/30/12 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 18:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/30/12 18:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 18:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/30/12 18:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/30/12 18:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/30/12 18:13	87-68-3	
2-Hexanone	ND	ug/kg	47.6	1		10/30/12 18:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/30/12 18:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/30/12 18:13	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		10/30/12 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.6	1		10/30/12 18:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/30/12 18:13	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-7 @ 10'**      **Lab ID: 92135495046**      Collected: 10/17/12 10:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/30/12 18:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/30/12 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/30/12 18:13	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/30/12 18:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/30/12 18:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/30/12 18:13	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/30/12 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/30/12 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/30/12 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/30/12 18:13	108-67-8	
Vinyl acetate	ND	ug/kg	47.6	1		10/30/12 18:13	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/30/12 18:13	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/30/12 18:13	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/30/12 18:13	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/30/12 18:13	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	95 %		70-130	1		10/30/12 18:13	1868-53-7	
Toluene-d8 (S)	93 %		70-130	1		10/30/12 18:13	2037-26-5	
4-Bromofluorobenzene (S)	78 %		70-130	1		10/30/12 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	97 %		70-132	1		10/30/12 18:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>13.9 %</b>		0.10	1		10/24/12 08:41		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-6 @ 2'**      **Lab ID: 92135495047**      Collected: 10/17/12 11:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.6	1		10/30/12 18:32	67-64-1	
Benzene	ND	ug/kg	4.3	1		10/30/12 18:32	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		10/30/12 18:32	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		10/30/12 18:32	75-27-4	
Bromoform	ND	ug/kg	4.3	1		10/30/12 18:32	75-25-2	
Bromomethane	ND	ug/kg	8.7	1		10/30/12 18:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.6	1		10/30/12 18:32	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		10/30/12 18:32	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	108-90-7	
Chloroethane	ND	ug/kg	8.7	1		10/30/12 18:32	75-00-3	
Chloroform	ND	ug/kg	4.3	1		10/30/12 18:32	67-66-3	
Chloromethane	ND	ug/kg	8.7	1		10/30/12 18:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		10/30/12 18:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		10/30/12 18:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		10/30/12 18:32	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		10/30/12 18:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		10/30/12 18:32	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		10/30/12 18:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.7	1		10/30/12 18:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		10/30/12 18:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/30/12 18:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/30/12 18:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		10/30/12 18:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		10/30/12 18:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		10/30/12 18:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		10/30/12 18:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/30/12 18:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/30/12 18:32	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		10/30/12 18:32	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		10/30/12 18:32	87-68-3	
2-Hexanone	ND	ug/kg	43.3	1		10/30/12 18:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		10/30/12 18:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		10/30/12 18:32	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		10/30/12 18:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.3	1		10/30/12 18:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		10/30/12 18:32	1634-04-4	

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-6 @ 2'**      **Lab ID: 92135495047**      Collected: 10/17/12 11:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.3	1		10/30/12 18:32	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	103-65-1	
Styrene	ND	ug/kg	4.3	1		10/30/12 18:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		10/30/12 18:32	127-18-4	
Toluene	ND	ug/kg	4.3	1		10/30/12 18:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		10/30/12 18:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		10/30/12 18:32	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		10/30/12 18:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		10/30/12 18:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		10/30/12 18:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		10/30/12 18:32	108-67-8	
Vinyl acetate	ND	ug/kg	43.3	1		10/30/12 18:32	108-05-4	
Vinyl chloride	ND	ug/kg	8.7	1		10/30/12 18:32	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		10/30/12 18:32	1330-20-7	
m&p-Xylene	ND	ug/kg	8.7	1		10/30/12 18:32	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		10/30/12 18:32	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		10/30/12 18:32	1868-53-7	
Toluene-d8 (S)	97 %		70-130	1		10/30/12 18:32	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-132	1		10/30/12 18:32	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	4.1 %		0.10	1		10/24/12 08:42		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-6 @ 8'**      **Lab ID: 92135495048**      Collected: 10/17/12 11:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	83.4	1		10/30/12 18:50	67-64-1	
Benzene	ND	ug/kg	4.2	1		10/30/12 18:50	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		10/30/12 18:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		10/30/12 18:50	75-27-4	
Bromoform	ND	ug/kg	4.2	1		10/30/12 18:50	75-25-2	
Bromomethane	ND	ug/kg	8.3	1		10/30/12 18:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	83.4	1		10/30/12 18:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.2	1		10/30/12 18:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	108-90-7	
Chloroethane	ND	ug/kg	8.3	1		10/30/12 18:50	75-00-3	
Chloroform	ND	ug/kg	4.2	1		10/30/12 18:50	67-66-3	
Chloromethane	ND	ug/kg	8.3	1		10/30/12 18:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		10/30/12 18:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		10/30/12 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	1		10/30/12 18:50	96-12-8	
Dibromochloromethane	ND	ug/kg	4.2	1		10/30/12 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		10/30/12 18:50	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		10/30/12 18:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.3	1		10/30/12 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		10/30/12 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		10/30/12 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		10/30/12 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		10/30/12 18:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		10/30/12 18:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		10/30/12 18:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		10/30/12 18:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		10/30/12 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		10/30/12 18:50	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.2	1		10/30/12 18:50	108-20-3	
Ethylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		10/30/12 18:50	87-68-3	
2-Hexanone	ND	ug/kg	41.7	1		10/30/12 18:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		10/30/12 18:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		10/30/12 18:50	99-87-6	
Methylene Chloride	ND	ug/kg	16.7	1		10/30/12 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.7	1		10/30/12 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		10/30/12 18:50	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-6 @ 8'**      **Lab ID: 92135495048**      Collected: 10/17/12 11:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.2	1		10/30/12 18:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	103-65-1	
Styrene	ND	ug/kg	4.2	1		10/30/12 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		10/30/12 18:50	127-18-4	
Toluene	ND	ug/kg	4.2	1		10/30/12 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		10/30/12 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		10/30/12 18:50	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		10/30/12 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		10/30/12 18:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		10/30/12 18:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		10/30/12 18:50	108-67-8	
Vinyl acetate	ND	ug/kg	41.7	1		10/30/12 18:50	108-05-4	
Vinyl chloride	ND	ug/kg	8.3	1		10/30/12 18:50	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		10/30/12 18:50	1330-20-7	
m&p-Xylene	ND	ug/kg	8.3	1		10/30/12 18:50	179601-23-1	
o-Xylene	ND	ug/kg	4.2	1		10/30/12 18:50	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	129 %		70-130	1		10/30/12 18:50	1868-53-7	
Toluene-d8 (S)	93 %		70-130	1		10/30/12 18:50	2037-26-5	
4-Bromofluorobenzene (S)	85 %		70-130	1		10/30/12 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/30/12 18:50	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>11.7 %</b>		0.10	1		10/24/12 08:42		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-5 @ 1'**      **Lab ID: 92135495049**      Collected: 10/17/12 11:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	98.6	ug/kg	91.9	1		10/30/12 19:09	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/30/12 19:09	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/30/12 19:09	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/30/12 19:09	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/30/12 19:09	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		10/30/12 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.9	1		10/30/12 19:09	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/30/12 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		10/30/12 19:09	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/30/12 19:09	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		10/30/12 19:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 19:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/30/12 19:09	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/30/12 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/30/12 19:09	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/30/12 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		10/30/12 19:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:09	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/30/12 19:09	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/30/12 19:09	87-68-3	
2-Hexanone	ND	ug/kg	46.0	1		10/30/12 19:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/30/12 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/30/12 19:09	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		10/30/12 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.0	1		10/30/12 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/30/12 19:09	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-5 @ 1'**      **Lab ID: 92135495049**      Collected: 10/17/12 11:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/30/12 19:09	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/30/12 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/30/12 19:09	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/30/12 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 19:09	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/30/12 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/30/12 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/30/12 19:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:09	108-67-8	
Vinyl acetate	ND	ug/kg	46.0	1		10/30/12 19:09	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		10/30/12 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		10/30/12 19:09	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		10/30/12 19:09	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/30/12 19:09	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	125 %		70-130	1		10/30/12 19:09	1868-53-7	
Toluene-d8 (S)	97 %		70-130	1		10/30/12 19:09	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-132	1		10/30/12 19:09	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	1.1 %		0.10	1		10/24/12 08:42		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-5 @ 3'**      **Lab ID: 92135495050**      Collected: 10/17/12 11:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	91.2	1		10/30/12 19:27	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/30/12 19:27	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/30/12 19:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/30/12 19:27	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/30/12 19:27	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/30/12 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.2	1		10/30/12 19:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/30/12 19:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/30/12 19:27	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/30/12 19:27	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/30/12 19:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 19:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/30/12 19:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/30/12 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/30/12 19:27	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/30/12 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/30/12 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 19:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/30/12 19:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/30/12 19:27	87-68-3	
2-Hexanone	ND	ug/kg	45.6	1		10/30/12 19:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/30/12 19:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/30/12 19:27	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		10/30/12 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.6	1		10/30/12 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/30/12 19:27	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-5 @ 3'**      **Lab ID: 92135495050**      Collected: 10/17/12 11:30      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/30/12 19:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/30/12 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/30/12 19:27	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/30/12 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 19:27	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/30/12 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/30/12 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/30/12 19:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 19:27	108-67-8	
Vinyl acetate	ND	ug/kg	45.6	1		10/30/12 19:27	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/30/12 19:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/30/12 19:27	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/30/12 19:27	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/30/12 19:27	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	115 %		70-130	1		10/30/12 19:27	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/30/12 19:27	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/30/12 19:27	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/30/12 19:27	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>3.0 %</b>		0.10	1		10/24/12 08:42		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-8 @ 1'**      **Lab ID: 92135495051**      Collected: 10/17/12 12:02      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	163	ug/kg	93.2	1		10/30/12 19:46	67-64-1	A+
Benzene	ND	ug/kg	4.7	1		10/30/12 19:46	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 19:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 19:46	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 19:46	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/30/12 19:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.2	1		10/30/12 19:46	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 19:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/30/12 19:46	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 19:46	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/30/12 19:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 19:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 19:46	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 19:46	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 19:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/30/12 19:46	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 19:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 19:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 19:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 19:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 19:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 19:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 19:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 19:46	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 19:46	87-68-3	
2-Hexanone	ND	ug/kg	46.6	1		10/30/12 19:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 19:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 19:46	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		10/30/12 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.6	1		10/30/12 19:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 19:46	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-8 @ 1'**      **Lab ID: 92135495051**      Collected: 10/17/12 12:02      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 19:46	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 19:46	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 19:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 19:46	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 19:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 19:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 19:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 19:46	108-67-8	
Vinyl acetate	ND	ug/kg	46.6	1		10/30/12 19:46	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/30/12 19:46	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/30/12 19:46	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/30/12 19:46	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 19:46	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	111 %		70-130	1		10/30/12 19:46	1868-53-7	
Toluene-d8 (S)	123 %		70-130	1		10/30/12 19:46	2037-26-5	
4-Bromofluorobenzene (S)	72 %		70-130	1		10/30/12 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-132	1		10/30/12 19:46	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>3.0 %</b>		0.10	1		10/24/12 08:42		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-8 @ 4'**      **Lab ID: 92135495052**      Collected: 10/17/12 12:02      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.3	1		10/30/12 20:04	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 20:04	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 20:04	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 20:04	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 20:04	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/30/12 20:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.3	1		10/30/12 20:04	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 20:04	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/30/12 20:04	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 20:04	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/30/12 20:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 20:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 20:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 20:04	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 20:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 20:04	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 20:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/30/12 20:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:04	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 20:04	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 20:04	87-68-3	
2-Hexanone	ND	ug/kg	46.6	1		10/30/12 20:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 20:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 20:04	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		10/30/12 20:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.6	1		10/30/12 20:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 20:04	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-8 @ 4'**      **Lab ID: 92135495052**      Collected: 10/17/12 12:02      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 20:04	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 20:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 20:04	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 20:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 20:04	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 20:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 20:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 20:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:04	108-67-8	
Vinyl acetate	ND	ug/kg	46.6	1		10/30/12 20:04	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/30/12 20:04	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/30/12 20:04	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/30/12 20:04	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 20:04	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/30/12 20:04	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/30/12 20:04	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/30/12 20:04	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-132	1		10/30/12 20:04	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.8 %</b>		0.10	1		10/24/12 08:43		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-9 @ 1'**      **Lab ID: 92135495053**      Collected: 10/17/12 12:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.5	1		10/30/12 20:23	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 20:23	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 20:23	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 20:23	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 20:23	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/30/12 20:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.5	1		10/30/12 20:23	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 20:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/30/12 20:23	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 20:23	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/30/12 20:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 20:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 20:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 20:23	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 20:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 20:23	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 20:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/30/12 20:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 20:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 20:23	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 20:23	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 20:23	87-68-3	
2-Hexanone	ND	ug/kg	47.2	1		10/30/12 20:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 20:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 20:23	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		10/30/12 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.2	1		10/30/12 20:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 20:23	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-9 @ 1'**      **Lab ID: 92135495053**      Collected: 10/17/12 12:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 20:23	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 20:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 20:23	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 20:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 20:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 20:23	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 20:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 20:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 20:23	108-67-8	
Vinyl acetate	ND	ug/kg	47.2	1		10/30/12 20:23	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/30/12 20:23	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/30/12 20:23	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/30/12 20:23	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 20:23	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	109 %		70-130	1		10/30/12 20:23	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/30/12 20:23	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/30/12 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-132	1		10/30/12 20:23	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	5.2 %		0.10	1		10/24/12 08:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-9 @ 4'**      **Lab ID: 92135495054**      Collected: 10/17/12 12:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	210	ug/kg	92.8	1		10/30/12 20:41	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/30/12 20:41	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/30/12 20:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/30/12 20:41	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/30/12 20:41	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/30/12 20:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.8	1		10/30/12 20:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/30/12 20:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/30/12 20:41	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/30/12 20:41	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/30/12 20:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 20:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 20:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/30/12 20:41	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/30/12 20:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/30/12 20:41	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/30/12 20:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/30/12 20:41	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 20:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 20:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 20:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 20:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 20:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 20:41	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/30/12 20:41	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/30/12 20:41	87-68-3	
2-Hexanone	ND	ug/kg	46.4	1		10/30/12 20:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/30/12 20:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/30/12 20:41	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		10/30/12 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.4	1		10/30/12 20:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/30/12 20:41	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-9 @ 4'**      **Lab ID: 92135495054**      Collected: 10/17/12 12:45      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/30/12 20:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/30/12 20:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/30/12 20:41	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/30/12 20:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 20:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 20:41	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/30/12 20:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/30/12 20:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/30/12 20:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 20:41	108-67-8	
Vinyl acetate	ND	ug/kg	46.4	1		10/30/12 20:41	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/30/12 20:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/30/12 20:41	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/30/12 20:41	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/30/12 20:41	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	111 %		70-130	1		10/30/12 20:41	1868-53-7	
Toluene-d8 (S)	90 %		70-130	1		10/30/12 20:41	2037-26-5	
4-Bromofluorobenzene (S)	73 %		70-130	1		10/30/12 20:41	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-132	1		10/30/12 20:41	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	5.5 %		0.10	1		10/24/12 08:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-10 @ 1'**      **Lab ID: 92135495055**      Collected: 10/17/12 13:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	92.6	1		10/30/12 21:00	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/30/12 21:00	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/30/12 21:00	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/30/12 21:00	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/30/12 21:00	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/30/12 21:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.6	1		10/30/12 21:00	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/30/12 21:00	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/30/12 21:00	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/30/12 21:00	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/30/12 21:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 21:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/30/12 21:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/30/12 21:00	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/30/12 21:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/30/12 21:00	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/30/12 21:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/30/12 21:00	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 21:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 21:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/30/12 21:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 21:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 21:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/30/12 21:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 21:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 21:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/30/12 21:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/30/12 21:00	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/30/12 21:00	87-68-3	
2-Hexanone	ND	ug/kg	46.3	1		10/30/12 21:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/30/12 21:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/30/12 21:00	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		10/30/12 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.3	1		10/30/12 21:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/30/12 21:00	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-10 @ 1'**      **Lab ID: 92135495055**      Collected: 10/17/12 13:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/30/12 21:00	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/30/12 21:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/30/12 21:00	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/30/12 21:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/30/12 21:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/30/12 21:00	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/30/12 21:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/30/12 21:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/30/12 21:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/30/12 21:00	108-67-8	
Vinyl acetate	ND	ug/kg	46.3	1		10/30/12 21:00	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/30/12 21:00	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/30/12 21:00	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/30/12 21:00	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/30/12 21:00	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	116 %		70-130	1		10/30/12 21:00	1868-53-7	
Toluene-d8 (S)	94 %		70-130	1		10/30/12 21:00	2037-26-5	
4-Bromofluorobenzene (S)	70 %		70-130	1		10/30/12 21:00	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-132	1		10/30/12 21:00	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	4.1 %		0.10	1		10/24/12 08:54		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-10 @ 4'**      **Lab ID: 92135495056**      Collected: 10/17/12 13:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.7	1		10/30/12 21:18	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/30/12 21:18	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/30/12 21:18	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/30/12 21:18	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/30/12 21:18	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		10/30/12 21:18	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.7	1		10/30/12 21:18	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/30/12 21:18	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		10/30/12 21:18	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/30/12 21:18	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		10/30/12 21:18	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 21:18	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 21:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/30/12 21:18	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/30/12 21:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/30/12 21:18	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/30/12 21:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		10/30/12 21:18	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 21:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 21:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 21:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 21:18	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 21:18	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 21:18	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 21:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 21:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 21:18	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/30/12 21:18	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/30/12 21:18	87-68-3	
2-Hexanone	ND	ug/kg	44.8	1		10/30/12 21:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/30/12 21:18	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/30/12 21:18	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		10/30/12 21:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.8	1		10/30/12 21:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/30/12 21:18	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-10 @ 4'**      **Lab ID: 92135495056**      Collected: 10/17/12 13:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/30/12 21:18	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/30/12 21:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/30/12 21:18	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/30/12 21:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 21:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 21:18	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/30/12 21:18	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/30/12 21:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/30/12 21:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 21:18	108-67-8	
Vinyl acetate	ND	ug/kg	44.8	1		10/30/12 21:18	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		10/30/12 21:18	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		10/30/12 21:18	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		10/30/12 21:18	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/30/12 21:18	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	94 %		70-130	1		10/30/12 21:18	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/30/12 21:18	2037-26-5	
4-Bromofluorobenzene (S)	86 %		70-130	1		10/30/12 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		70-132	1		10/30/12 21:18	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.9 %</b>		0.10	1		10/24/12 08:54		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-11 @ 4'**      **Lab ID: 92135495057**      Collected: 10/17/12 13:40      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.7	1		10/30/12 21:37	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/30/12 21:37	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/30/12 21:37	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/30/12 21:37	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/30/12 21:37	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/30/12 21:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.7	1		10/30/12 21:37	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/30/12 21:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/30/12 21:37	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/30/12 21:37	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/30/12 21:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/30/12 21:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/30/12 21:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/30/12 21:37	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/30/12 21:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/30/12 21:37	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/30/12 21:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/30/12 21:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/30/12 21:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/30/12 21:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/30/12 21:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/30/12 21:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/30/12 21:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/30/12 21:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/30/12 21:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/30/12 21:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/30/12 21:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/30/12 21:37	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/30/12 21:37	87-68-3	
2-Hexanone	ND	ug/kg	44.3	1		10/30/12 21:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/30/12 21:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/30/12 21:37	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		10/30/12 21:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.3	1		10/30/12 21:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/30/12 21:37	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-11 @ 4'**      **Lab ID: 92135495057**      Collected: 10/17/12 13:40      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/30/12 21:37	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/30/12 21:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/30/12 21:37	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/30/12 21:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/30/12 21:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/30/12 21:37	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/30/12 21:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/30/12 21:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/30/12 21:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/30/12 21:37	108-67-8	
Vinyl acetate	ND	ug/kg	44.3	1		10/30/12 21:37	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/30/12 21:37	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/30/12 21:37	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/30/12 21:37	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/30/12 21:37	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	96 %		70-130	1		10/30/12 21:37	1868-53-7	
Toluene-d8 (S)	93 %		70-130	1		10/30/12 21:37	2037-26-5	
4-Bromofluorobenzene (S)	82 %		70-130	1		10/30/12 21:37	460-00-4	
1,2-Dichloroethane-d4 (S)	123 %		70-132	1		10/30/12 21:37	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.8 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-11 @ 6'**      **Lab ID: 92135495058**      Collected: 10/17/12 13:40      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.8	1		10/30/12 21:55	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/30/12 21:55	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/30/12 21:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/30/12 21:55	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/30/12 21:55	75-25-2	
Bromomethane	ND	ug/kg	9.4	1		10/30/12 21:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.8	1		10/30/12 21:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/30/12 21:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	108-90-7	
Chloroethane	ND	ug/kg	9.4	1		10/30/12 21:55	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/30/12 21:55	67-66-3	
Chloromethane	ND	ug/kg	9.4	1		10/30/12 21:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 21:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/30/12 21:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/30/12 21:55	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/30/12 21:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/30/12 21:55	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/30/12 21:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.4	1		10/30/12 21:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 21:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 21:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/30/12 21:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 21:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 21:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/30/12 21:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 21:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 21:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/30/12 21:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/30/12 21:55	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/30/12 21:55	87-68-3	
2-Hexanone	ND	ug/kg	46.9	1		10/30/12 21:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/30/12 21:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/30/12 21:55	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		10/30/12 21:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.9	1		10/30/12 21:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/30/12 21:55	1634-04-4	

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### ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

Sample: B-11 @ 6' Lab ID: 92135495058 Collected: 10/17/12 13:40 Received: 10/19/12 13:15 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/30/12 21:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/30/12 21:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/30/12 21:55	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/30/12 21:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/30/12 21:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/30/12 21:55	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/30/12 21:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/30/12 21:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/30/12 21:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/30/12 21:55	108-67-8	
Vinyl acetate	ND	ug/kg	46.9	1		10/30/12 21:55	108-05-4	
Vinyl chloride	ND	ug/kg	9.4	1		10/30/12 21:55	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		10/30/12 21:55	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	1		10/30/12 21:55	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/30/12 21:55	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	96 %		70-130	1		10/30/12 21:55	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		10/30/12 21:55	2037-26-5	
4-Bromofluorobenzene (S)	86 %		70-130	1		10/30/12 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/30/12 21:55	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	6.0 %		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-11 @ 16'      Lab ID: 92135495059      Collected: 10/17/12 13:40      Received: 10/19/12 13:15      Matrix: Solid**

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.3	1		10/30/12 22:14	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/30/12 22:14	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/30/12 22:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/30/12 22:14	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/30/12 22:14	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/30/12 22:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.3	1		10/30/12 22:14	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/30/12 22:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/30/12 22:14	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/30/12 22:14	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/30/12 22:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 22:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/30/12 22:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/30/12 22:14	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/30/12 22:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/30/12 22:14	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/30/12 22:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/30/12 22:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 22:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 22:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/30/12 22:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 22:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 22:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/30/12 22:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 22:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 22:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/30/12 22:14	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/30/12 22:14	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/30/12 22:14	87-68-3	
2-Hexanone	ND	ug/kg	44.7	1		10/30/12 22:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/30/12 22:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/30/12 22:14	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		10/30/12 22:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.7	1		10/30/12 22:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/30/12 22:14	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-11 @ 16'**      **Lab ID: 92135495059**      Collected: 10/17/12 13:40      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/30/12 22:14	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/30/12 22:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/30/12 22:14	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/30/12 22:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/30/12 22:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/30/12 22:14	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/30/12 22:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/30/12 22:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/30/12 22:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/30/12 22:14	108-67-8	
Vinyl acetate	ND	ug/kg	44.7	1		10/30/12 22:14	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/30/12 22:14	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/30/12 22:14	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/30/12 22:14	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/30/12 22:14	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	111 %		70-130	1		10/30/12 22:14	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/30/12 22:14	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/30/12 22:14	460-00-4	
1,2-Dichloroethane-d4 (S)	114 %		70-132	1		10/30/12 22:14	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.9 %</b>		0.10	1		10/24/12 08:55		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 2'**      **Lab ID: 92135495060**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	160	ug/kg	91.4	1		10/31/12 17:07	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/31/12 17:07	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/31/12 17:07	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/31/12 17:07	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/31/12 17:07	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/31/12 17:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.4	1		10/31/12 17:07	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/31/12 17:07	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/31/12 17:07	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/31/12 17:07	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/31/12 17:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 17:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 17:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/31/12 17:07	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/31/12 17:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/31/12 17:07	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/31/12 17:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/31/12 17:07	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 17:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 17:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 17:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 17:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 17:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 17:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 17:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 17:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 17:07	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/31/12 17:07	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/31/12 17:07	87-68-3	
2-Hexanone	ND	ug/kg	45.7	1		10/31/12 17:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/31/12 17:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/31/12 17:07	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		10/31/12 17:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.7	1		10/31/12 17:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/31/12 17:07	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 2'**      **Lab ID: 92135495060**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/31/12 17:07	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/31/12 17:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/31/12 17:07	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/31/12 17:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 17:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 17:07	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/31/12 17:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/31/12 17:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/31/12 17:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 17:07	108-67-8	
Vinyl acetate	ND	ug/kg	45.7	1		10/31/12 17:07	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/31/12 17:07	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/31/12 17:07	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/31/12 17:07	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/31/12 17:07	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	101 %		70-130	1		10/31/12 17:07	1868-53-7	
Toluene-d8 (S)	92 %		70-130	1		10/31/12 17:07	2037-26-5	
4-Bromofluorobenzene (S)	76 %		70-130	1		10/31/12 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		70-132	1		10/31/12 17:07	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	5.5 %		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 10'**      **Lab ID: 92135495061**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	90.4	1		10/31/12 17:26	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/31/12 17:26	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/31/12 17:26	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/31/12 17:26	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/31/12 17:26	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		10/31/12 17:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	90.4	1		10/31/12 17:26	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/31/12 17:26	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		10/31/12 17:26	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/31/12 17:26	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		10/31/12 17:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/31/12 17:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/31/12 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/31/12 17:26	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/31/12 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/31/12 17:26	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/31/12 17:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		10/31/12 17:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 17:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 17:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 17:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 17:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 17:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 17:26	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/31/12 17:26	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/31/12 17:26	87-68-3	
2-Hexanone	ND	ug/kg	45.2	1		10/31/12 17:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/31/12 17:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/31/12 17:26	99-87-6	
Methylene Chloride	ND	ug/kg	18.1	1		10/31/12 17:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.2	1		10/31/12 17:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/31/12 17:26	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 10'**      **Lab ID: 92135495061**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/31/12 17:26	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/31/12 17:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/31/12 17:26	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/31/12 17:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/31/12 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/31/12 17:26	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/31/12 17:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/31/12 17:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/31/12 17:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/31/12 17:26	108-67-8	
Vinyl acetate	ND	ug/kg	45.2	1		10/31/12 17:26	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		10/31/12 17:26	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		10/31/12 17:26	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		10/31/12 17:26	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/31/12 17:26	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	97 %		70-130	1		10/31/12 17:26	1868-53-7	
Toluene-d8 (S)	97 %		70-130	1		10/31/12 17:26	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/31/12 17:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/31/12 17:26	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.9 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 14'**      **Lab ID: 92135495062**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.1	1		10/31/12 17:44	67-64-1	
Benzene	ND	ug/kg	4.3	1		10/31/12 17:44	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		10/31/12 17:44	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		10/31/12 17:44	75-27-4	
Bromoform	ND	ug/kg	4.3	1		10/31/12 17:44	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		10/31/12 17:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	86.1	1		10/31/12 17:44	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		10/31/12 17:44	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		10/31/12 17:44	75-00-3	
Chloroform	ND	ug/kg	4.3	1		10/31/12 17:44	67-66-3	
Chloromethane	ND	ug/kg	8.6	1		10/31/12 17:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		10/31/12 17:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		10/31/12 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		10/31/12 17:44	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		10/31/12 17:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		10/31/12 17:44	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		10/31/12 17:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		10/31/12 17:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		10/31/12 17:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/31/12 17:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		10/31/12 17:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		10/31/12 17:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		10/31/12 17:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		10/31/12 17:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		10/31/12 17:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/31/12 17:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		10/31/12 17:44	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		10/31/12 17:44	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		10/31/12 17:44	87-68-3	
2-Hexanone	ND	ug/kg	43.1	1		10/31/12 17:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		10/31/12 17:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		10/31/12 17:44	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		10/31/12 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	43.1	1		10/31/12 17:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		10/31/12 17:44	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-12 @ 14'**      **Lab ID: 92135495062**      Collected: 10/17/12 14:25      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.3	1		10/31/12 17:44	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	103-65-1	
Styrene	ND	ug/kg	4.3	1		10/31/12 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		10/31/12 17:44	127-18-4	
Toluene	ND	ug/kg	4.3	1		10/31/12 17:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		10/31/12 17:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		10/31/12 17:44	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		10/31/12 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		10/31/12 17:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		10/31/12 17:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		10/31/12 17:44	108-67-8	
Vinyl acetate	ND	ug/kg	43.1	1		10/31/12 17:44	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		10/31/12 17:44	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		10/31/12 17:44	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		10/31/12 17:44	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		10/31/12 17:44	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		10/31/12 17:44	1868-53-7	
Toluene-d8 (S)	103 %		70-130	1		10/31/12 17:44	2037-26-5	
4-Bromofluorobenzene (S)	92 %		70-130	1		10/31/12 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-132	1		10/31/12 17:44	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.6 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-13 @ 2'**      **Lab ID: 92135495063**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.6	1		10/31/12 18:03	67-64-1	
Benzene	ND	ug/kg	4.9	1		10/31/12 18:03	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		10/31/12 18:03	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		10/31/12 18:03	75-27-4	
Bromoform	ND	ug/kg	4.9	1		10/31/12 18:03	75-25-2	
Bromomethane	ND	ug/kg	9.8	1		10/31/12 18:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	97.6	1		10/31/12 18:03	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.9	1		10/31/12 18:03	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	108-90-7	
Chloroethane	ND	ug/kg	9.8	1		10/31/12 18:03	75-00-3	
Chloroform	ND	ug/kg	4.9	1		10/31/12 18:03	67-66-3	
Chloromethane	ND	ug/kg	9.8	1		10/31/12 18:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		10/31/12 18:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		10/31/12 18:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.9	1		10/31/12 18:03	96-12-8	
Dibromochloromethane	ND	ug/kg	4.9	1		10/31/12 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		10/31/12 18:03	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		10/31/12 18:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.8	1		10/31/12 18:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		10/31/12 18:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/31/12 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		10/31/12 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		10/31/12 18:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		10/31/12 18:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		10/31/12 18:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		10/31/12 18:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/31/12 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		10/31/12 18:03	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.9	1		10/31/12 18:03	108-20-3	
Ethylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		10/31/12 18:03	87-68-3	
2-Hexanone	ND	ug/kg	48.8	1		10/31/12 18:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		10/31/12 18:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		10/31/12 18:03	99-87-6	
Methylene Chloride	ND	ug/kg	19.5	1		10/31/12 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.8	1		10/31/12 18:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		10/31/12 18:03	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-13 @ 2'**      **Lab ID: 92135495063**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.9	1		10/31/12 18:03	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	103-65-1	
Styrene	ND	ug/kg	4.9	1		10/31/12 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		10/31/12 18:03	127-18-4	
Toluene	ND	ug/kg	4.9	1		10/31/12 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		10/31/12 18:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		10/31/12 18:03	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		10/31/12 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		10/31/12 18:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		10/31/12 18:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		10/31/12 18:03	108-67-8	
Vinyl acetate	ND	ug/kg	48.8	1		10/31/12 18:03	108-05-4	
Vinyl chloride	ND	ug/kg	9.8	1		10/31/12 18:03	75-01-4	
Xylene (Total)	ND	ug/kg	9.8	1		10/31/12 18:03	1330-20-7	
m&p-Xylene	ND	ug/kg	9.8	1		10/31/12 18:03	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1		10/31/12 18:03	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	103 %		70-130	1		10/31/12 18:03	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/31/12 18:03	2037-26-5	
4-Bromofluorobenzene (S)	92 %		70-130	1		10/31/12 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	117 %		70-132	1		10/31/12 18:03	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.4 %</b>		0.10	1		10/24/12 08:55		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-13 @ 6'**      **Lab ID: 92135495064**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	117	ug/kg	96.9	1		10/31/12 18:21	67-64-1	A+
Benzene	ND	ug/kg	4.8	1		10/31/12 18:21	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/31/12 18:21	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/31/12 18:21	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/31/12 18:21	75-25-2	
Bromomethane	ND	ug/kg	9.7	1		10/31/12 18:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.9	1		10/31/12 18:21	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/31/12 18:21	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	108-90-7	
Chloroethane	ND	ug/kg	9.7	1		10/31/12 18:21	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/31/12 18:21	67-66-3	
Chloromethane	ND	ug/kg	9.7	1		10/31/12 18:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/31/12 18:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/31/12 18:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/31/12 18:21	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/31/12 18:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/31/12 18:21	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/31/12 18:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	1		10/31/12 18:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 18:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 18:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 18:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 18:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 18:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 18:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 18:21	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/31/12 18:21	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/31/12 18:21	87-68-3	
2-Hexanone	ND	ug/kg	48.5	1		10/31/12 18:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/31/12 18:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/31/12 18:21	99-87-6	
Methylene Chloride	ND	ug/kg	19.4	1		10/31/12 18:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.5	1		10/31/12 18:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/31/12 18:21	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-13 @ 6'**      **Lab ID: 92135495064**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/31/12 18:21	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/31/12 18:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/31/12 18:21	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/31/12 18:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/31/12 18:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/31/12 18:21	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/31/12 18:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/31/12 18:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/31/12 18:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/31/12 18:21	108-67-8	
Vinyl acetate	ND	ug/kg	48.5	1		10/31/12 18:21	108-05-4	
Vinyl chloride	ND	ug/kg	9.7	1		10/31/12 18:21	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		10/31/12 18:21	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	1		10/31/12 18:21	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/31/12 18:21	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	109 %		70-130	1		10/31/12 18:21	1868-53-7	
Toluene-d8 (S)	102 %		70-130	1		10/31/12 18:21	2037-26-5	
4-Bromofluorobenzene (S)	88 %		70-130	1		10/31/12 18:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/31/12 18:21	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-13 @ 10'**      **Lab ID: 92135495065**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.9	1		10/31/12 18:40	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/31/12 18:40	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/31/12 18:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/31/12 18:40	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/31/12 18:40	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/31/12 18:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.9	1		10/31/12 18:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/31/12 18:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/31/12 18:40	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/31/12 18:40	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/31/12 18:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/31/12 18:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/31/12 18:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/31/12 18:40	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/31/12 18:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/31/12 18:40	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/31/12 18:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/31/12 18:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 18:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 18:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 18:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 18:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 18:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 18:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 18:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 18:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 18:40	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/31/12 18:40	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/31/12 18:40	87-68-3	
2-Hexanone	ND	ug/kg	47.5	1		10/31/12 18:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/31/12 18:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/31/12 18:40	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		10/31/12 18:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.5	1		10/31/12 18:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/31/12 18:40	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

**Sample: B-13 @ 10'**      **Lab ID: 92135495065**      Collected: 10/17/12 15:20      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/31/12 18:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/31/12 18:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/31/12 18:40	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/31/12 18:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/31/12 18:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/31/12 18:40	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/31/12 18:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/31/12 18:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/31/12 18:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/31/12 18:40	108-67-8	
Vinyl acetate	ND	ug/kg	47.5	1		10/31/12 18:40	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/31/12 18:40	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/31/12 18:40	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/31/12 18:40	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/31/12 18:40	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	113 %		70-130	1		10/31/12 18:40	1868-53-7	
Toluene-d8 (S)	97 %		70-130	1		10/31/12 18:40	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/31/12 18:40	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		10/31/12 18:40	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.8 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 2'**      **Lab ID: 92135495066**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	103	ug/kg	88.3	1		10/31/12 18:58	67-64-1	A+
Benzene	ND	ug/kg	4.4	1		10/31/12 18:58	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/31/12 18:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/31/12 18:58	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/31/12 18:58	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		10/31/12 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.3	1		10/31/12 18:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/31/12 18:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		10/31/12 18:58	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/31/12 18:58	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		10/31/12 18:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 18:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 18:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/31/12 18:58	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/31/12 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/31/12 18:58	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/31/12 18:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		10/31/12 18:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 18:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 18:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 18:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 18:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 18:58	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/31/12 18:58	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/31/12 18:58	87-68-3	
2-Hexanone	ND	ug/kg	44.2	1		10/31/12 18:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/31/12 18:58	98-82-8	
p-Isopropyltoluene	5.2	ug/kg	4.4	1		10/31/12 18:58	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		10/31/12 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.2	1		10/31/12 18:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/31/12 18:58	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 2'**      **Lab ID: 92135495066**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/31/12 18:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/31/12 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/31/12 18:58	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/31/12 18:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 18:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 18:58	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/31/12 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/31/12 18:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/31/12 18:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 18:58	108-67-8	
Vinyl acetate	ND	ug/kg	44.2	1		10/31/12 18:58	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		10/31/12 18:58	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		10/31/12 18:58	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		10/31/12 18:58	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/31/12 18:58	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	111 %		70-130	1		10/31/12 18:58	1868-53-7	
Toluene-d8 (S)	104 %		70-130	1		10/31/12 18:58	2037-26-5	
4-Bromofluorobenzene (S)	96 %		70-130	1		10/31/12 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	132 %		70-132	1		10/31/12 18:58	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>6.5 %</b>		0.10	1		10/24/12 08:55		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 10'**      **Lab ID: 92135495067**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	95.1	1		10/31/12 19:17	67-64-1	
Benzene	ND	ug/kg	4.8	1		10/31/12 19:17	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		10/31/12 19:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		10/31/12 19:17	75-27-4	
Bromoform	ND	ug/kg	4.8	1		10/31/12 19:17	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		10/31/12 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	95.1	1		10/31/12 19:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.8	1		10/31/12 19:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		10/31/12 19:17	75-00-3	
Chloroform	ND	ug/kg	4.8	1		10/31/12 19:17	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		10/31/12 19:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		10/31/12 19:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		10/31/12 19:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1		10/31/12 19:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.8	1		10/31/12 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		10/31/12 19:17	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		10/31/12 19:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		10/31/12 19:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 19:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		10/31/12 19:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 19:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 19:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		10/31/12 19:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 19:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		10/31/12 19:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.8	1		10/31/12 19:17	108-20-3	
Ethylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		10/31/12 19:17	87-68-3	
2-Hexanone	ND	ug/kg	47.5	1		10/31/12 19:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		10/31/12 19:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		10/31/12 19:17	99-87-6	
Methylene Chloride	ND	ug/kg	19.0	1		10/31/12 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.5	1		10/31/12 19:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		10/31/12 19:17	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 10'**      **Lab ID: 92135495067**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.8	1		10/31/12 19:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	103-65-1	
Styrene	ND	ug/kg	4.8	1		10/31/12 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		10/31/12 19:17	127-18-4	
Toluene	ND	ug/kg	4.8	1		10/31/12 19:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		10/31/12 19:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		10/31/12 19:17	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		10/31/12 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		10/31/12 19:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		10/31/12 19:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		10/31/12 19:17	108-67-8	
Vinyl acetate	ND	ug/kg	47.5	1		10/31/12 19:17	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		10/31/12 19:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		10/31/12 19:17	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		10/31/12 19:17	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1		10/31/12 19:17	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	107 %		70-130	1		10/31/12 19:17	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/31/12 19:17	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/31/12 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-132	1		10/31/12 19:17	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.6 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 12'**      **Lab ID: 92135495068**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.4	1		10/31/12 19:35	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/31/12 19:35	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/31/12 19:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/31/12 19:35	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/31/12 19:35	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		10/31/12 19:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.4	1		10/31/12 19:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/31/12 19:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		10/31/12 19:35	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/31/12 19:35	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		10/31/12 19:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 19:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 19:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/31/12 19:35	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/31/12 19:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/31/12 19:35	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/31/12 19:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		10/31/12 19:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 19:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 19:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 19:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 19:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 19:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 19:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/31/12 19:35	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/31/12 19:35	87-68-3	
2-Hexanone	ND	ug/kg	44.2	1		10/31/12 19:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/31/12 19:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/31/12 19:35	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		10/31/12 19:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.2	1		10/31/12 19:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/31/12 19:35	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-14 @ 12'**      **Lab ID: 92135495068**      Collected: 10/17/12 16:10      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/31/12 19:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/31/12 19:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/31/12 19:35	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/31/12 19:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 19:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 19:35	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/31/12 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/31/12 19:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/31/12 19:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 19:35	108-67-8	
Vinyl acetate	ND	ug/kg	44.2	1		10/31/12 19:35	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		10/31/12 19:35	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		10/31/12 19:35	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		10/31/12 19:35	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/31/12 19:35	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	100 %		70-130	1		10/31/12 19:35	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/31/12 19:35	2037-26-5	
4-Bromofluorobenzene (S)	92 %		70-130	1		10/31/12 19:35	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-132	1		10/31/12 19:35	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.3 %</b>		0.10	1		10/24/12 08:55		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-16 @ 6'**      **Lab ID: 92135495069**      Collected: 10/18/12 08:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	101	1		10/31/12 21:45	67-64-1	
Benzene	ND	ug/kg	5.0	1		10/31/12 21:45	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		10/31/12 21:45	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		10/31/12 21:45	75-27-4	
Bromoform	ND	ug/kg	5.0	1		10/31/12 21:45	75-25-2	
Bromomethane	ND	ug/kg	10.1	1		10/31/12 21:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	101	1		10/31/12 21:45	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.0	1		10/31/12 21:45	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	108-90-7	
Chloroethane	ND	ug/kg	10.1	1		10/31/12 21:45	75-00-3	
Chloroform	ND	ug/kg	5.0	1		10/31/12 21:45	67-66-3	
Chloromethane	ND	ug/kg	10.1	1		10/31/12 21:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		10/31/12 21:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		10/31/12 21:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	1		10/31/12 21:45	96-12-8	
Dibromochloromethane	ND	ug/kg	5.0	1		10/31/12 21:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		10/31/12 21:45	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		10/31/12 21:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.1	1		10/31/12 21:45	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		10/31/12 21:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/31/12 21:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		10/31/12 21:45	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		10/31/12 21:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		10/31/12 21:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		10/31/12 21:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		10/31/12 21:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/31/12 21:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		10/31/12 21:45	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.0	1		10/31/12 21:45	108-20-3	
Ethylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		10/31/12 21:45	87-68-3	
2-Hexanone	ND	ug/kg	50.3	1		10/31/12 21:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		10/31/12 21:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		10/31/12 21:45	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	1		10/31/12 21:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	50.3	1		10/31/12 21:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		10/31/12 21:45	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-16 @ 6'**      **Lab ID: 92135495069**      Collected: 10/18/12 08:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	5.0	1		10/31/12 21:45	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	103-65-1	
Styrene	ND	ug/kg	5.0	1		10/31/12 21:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		10/31/12 21:45	127-18-4	
Toluene	ND	ug/kg	5.0	1		10/31/12 21:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		10/31/12 21:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		10/31/12 21:45	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		10/31/12 21:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		10/31/12 21:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		10/31/12 21:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		10/31/12 21:45	108-67-8	
Vinyl acetate	ND	ug/kg	50.3	1		10/31/12 21:45	108-05-4	
Vinyl chloride	ND	ug/kg	10.1	1		10/31/12 21:45	75-01-4	
Xylene (Total)	ND	ug/kg	10.1	1		10/31/12 21:45	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	1		10/31/12 21:45	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1		10/31/12 21:45	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/31/12 21:45	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/31/12 21:45	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/31/12 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-132	1		10/31/12 21:45	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>12.5 %</b>		0.10	1		10/24/12 08:56		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-16 @ 10'**      **Lab ID: 92135495070**      Collected: 10/18/12 08:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.1	1		10/31/12 22:03	67-64-1	
Benzene	ND	ug/kg	4.7	1		10/31/12 22:03	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		10/31/12 22:03	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		10/31/12 22:03	75-27-4	
Bromoform	ND	ug/kg	4.7	1		10/31/12 22:03	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		10/31/12 22:03	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.1	1		10/31/12 22:03	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		10/31/12 22:03	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		10/31/12 22:03	75-00-3	
Chloroform	ND	ug/kg	4.7	1		10/31/12 22:03	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		10/31/12 22:03	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		10/31/12 22:03	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		10/31/12 22:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		10/31/12 22:03	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		10/31/12 22:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		10/31/12 22:03	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		10/31/12 22:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		10/31/12 22:03	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 22:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		10/31/12 22:03	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 22:03	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 22:03	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		10/31/12 22:03	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 22:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		10/31/12 22:03	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		10/31/12 22:03	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		10/31/12 22:03	87-68-3	
2-Hexanone	ND	ug/kg	46.6	1		10/31/12 22:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		10/31/12 22:03	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		10/31/12 22:03	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		10/31/12 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.6	1		10/31/12 22:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		10/31/12 22:03	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

**Sample: B-16 @ 10'**      **Lab ID: 92135495070**      Collected: 10/18/12 08:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		10/31/12 22:03	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	103-65-1	
Styrene	ND	ug/kg	4.7	1		10/31/12 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		10/31/12 22:03	127-18-4	
Toluene	ND	ug/kg	4.7	1		10/31/12 22:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		10/31/12 22:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		10/31/12 22:03	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		10/31/12 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		10/31/12 22:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		10/31/12 22:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		10/31/12 22:03	108-67-8	
Vinyl acetate	ND	ug/kg	46.6	1		10/31/12 22:03	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		10/31/12 22:03	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		10/31/12 22:03	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		10/31/12 22:03	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		10/31/12 22:03	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		10/31/12 22:03	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		10/31/12 22:03	2037-26-5	
4-Bromofluorobenzene (S)	88 %		70-130	1		10/31/12 22:03	460-00-4	
1,2-Dichloroethane-d4 (S)	109 %		70-132	1		10/31/12 22:03	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.5 %</b>		0.10	1		10/24/12 08:56		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 2'**      **Lab ID: 92135495071**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	91.0	1		10/31/12 22:22	67-64-1	
Benzene	ND	ug/kg	4.6	1		10/31/12 22:22	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/31/12 22:22	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/31/12 22:22	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/31/12 22:22	75-25-2	
Bromomethane	ND	ug/kg	9.1	1		10/31/12 22:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.0	1		10/31/12 22:22	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/31/12 22:22	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	108-90-7	
Chloroethane	ND	ug/kg	9.1	1		10/31/12 22:22	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/31/12 22:22	67-66-3	
Chloromethane	ND	ug/kg	9.1	1		10/31/12 22:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 22:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 22:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/31/12 22:22	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/31/12 22:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/31/12 22:22	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/31/12 22:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.1	1		10/31/12 22:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 22:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 22:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 22:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 22:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 22:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 22:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 22:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 22:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 22:22	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/31/12 22:22	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/31/12 22:22	87-68-3	
2-Hexanone	ND	ug/kg	45.5	1		10/31/12 22:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/31/12 22:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/31/12 22:22	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		10/31/12 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.5	1		10/31/12 22:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/31/12 22:22	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 2'**      **Lab ID: 92135495071**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/31/12 22:22	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/31/12 22:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/31/12 22:22	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/31/12 22:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 22:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 22:22	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/31/12 22:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/31/12 22:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/31/12 22:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 22:22	108-67-8	
Vinyl acetate	ND	ug/kg	45.5	1		10/31/12 22:22	108-05-4	
Vinyl chloride	ND	ug/kg	9.1	1		10/31/12 22:22	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		10/31/12 22:22	1330-20-7	
m&p-Xylene	ND	ug/kg	9.1	1		10/31/12 22:22	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/31/12 22:22	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	106 %		70-130	1		10/31/12 22:22	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/31/12 22:22	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		10/31/12 22:22	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-132	1		10/31/12 22:22	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.7 %</b>		0.10	1		10/24/12 08:56		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 4'**      **Lab ID: 92135495072**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.4	1		10/31/12 22:40	67-64-1	
Benzene	ND	ug/kg	4.5	1		10/31/12 22:40	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		10/31/12 22:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		10/31/12 22:40	75-27-4	
Bromoform	ND	ug/kg	4.5	1		10/31/12 22:40	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/31/12 22:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.4	1		10/31/12 22:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		10/31/12 22:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/31/12 22:40	75-00-3	
Chloroform	ND	ug/kg	4.5	1		10/31/12 22:40	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/31/12 22:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		10/31/12 22:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		10/31/12 22:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		10/31/12 22:40	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		10/31/12 22:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		10/31/12 22:40	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		10/31/12 22:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/31/12 22:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 22:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 22:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		10/31/12 22:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 22:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 22:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		10/31/12 22:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 22:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 22:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		10/31/12 22:40	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		10/31/12 22:40	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		10/31/12 22:40	87-68-3	
2-Hexanone	ND	ug/kg	44.7	1		10/31/12 22:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		10/31/12 22:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		10/31/12 22:40	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		10/31/12 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.7	1		10/31/12 22:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		10/31/12 22:40	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 4'**      **Lab ID: 92135495072**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.5	1		10/31/12 22:40	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	103-65-1	
Styrene	ND	ug/kg	4.5	1		10/31/12 22:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		10/31/12 22:40	127-18-4	
Toluene	ND	ug/kg	4.5	1		10/31/12 22:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		10/31/12 22:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		10/31/12 22:40	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		10/31/12 22:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		10/31/12 22:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		10/31/12 22:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		10/31/12 22:40	108-67-8	
Vinyl acetate	ND	ug/kg	44.7	1		10/31/12 22:40	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/31/12 22:40	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/31/12 22:40	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/31/12 22:40	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		10/31/12 22:40	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	104 %		70-130	1		10/31/12 22:40	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/31/12 22:40	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		10/31/12 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		70-132	1		10/31/12 22:40	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>9.2 %</b>		0.10	1		10/24/12 08:56		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 10'**      **Lab ID: 92135495073**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.9	1		10/31/12 22:59	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/31/12 22:59	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/31/12 22:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/31/12 22:59	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/31/12 22:59	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/31/12 22:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.9	1		10/31/12 22:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/31/12 22:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/31/12 22:59	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/31/12 22:59	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/31/12 22:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 22:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/31/12 22:59	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/31/12 22:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/31/12 22:59	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/31/12 22:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/31/12 22:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 22:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 22:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 22:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 22:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 22:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 22:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 22:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 22:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 22:59	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/31/12 22:59	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/31/12 22:59	87-68-3	
2-Hexanone	ND	ug/kg	44.5	1		10/31/12 22:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/31/12 22:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/31/12 22:59	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/31/12 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.5	1		10/31/12 22:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/31/12 22:59	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-15 @ 10'**      **Lab ID: 92135495073**      Collected: 10/18/12 09:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/31/12 22:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/31/12 22:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/31/12 22:59	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/31/12 22:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 22:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 22:59	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/31/12 22:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/31/12 22:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/31/12 22:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 22:59	108-67-8	
Vinyl acetate	ND	ug/kg	44.5	1		10/31/12 22:59	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/31/12 22:59	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/31/12 22:59	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/31/12 22:59	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/31/12 22:59	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	103 %		70-130	1		10/31/12 22:59	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		10/31/12 22:59	2037-26-5	
4-Bromofluorobenzene (S)	90 %		70-130	1		10/31/12 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	124 %		70-132	1		10/31/12 22:59	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.9 %</b>		0.10	1		10/24/12 09:25		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-18 @ 1'**      **Lab ID: 92135495074**      Collected: 10/18/12 09:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	161	ug/kg	91.9	1		10/31/12 23:17	67-64-1	A+
Benzene	ND	ug/kg	4.6	1		10/31/12 23:17	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		10/31/12 23:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		10/31/12 23:17	75-27-4	
Bromoform	ND	ug/kg	4.6	1		10/31/12 23:17	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		10/31/12 23:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.9	1		10/31/12 23:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		10/31/12 23:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		10/31/12 23:17	75-00-3	
Chloroform	ND	ug/kg	4.6	1		10/31/12 23:17	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		10/31/12 23:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 23:17	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		10/31/12 23:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		10/31/12 23:17	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		10/31/12 23:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		10/31/12 23:17	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		10/31/12 23:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		10/31/12 23:17	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		10/31/12 23:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 23:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 23:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		10/31/12 23:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 23:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 23:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		10/31/12 23:17	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		10/31/12 23:17	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		10/31/12 23:17	87-68-3	
2-Hexanone	ND	ug/kg	46.0	1		10/31/12 23:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		10/31/12 23:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		10/31/12 23:17	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		10/31/12 23:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.0	1		10/31/12 23:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		10/31/12 23:17	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-18 @ 1'**      **Lab ID: 92135495074**      Collected: 10/18/12 09:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		10/31/12 23:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	103-65-1	
Styrene	ND	ug/kg	4.6	1		10/31/12 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		10/31/12 23:17	127-18-4	
Toluene	ND	ug/kg	4.6	1		10/31/12 23:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		10/31/12 23:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		10/31/12 23:17	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		10/31/12 23:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		10/31/12 23:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		10/31/12 23:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		10/31/12 23:17	108-67-8	
Vinyl acetate	ND	ug/kg	46.0	1		10/31/12 23:17	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		10/31/12 23:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		10/31/12 23:17	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		10/31/12 23:17	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		10/31/12 23:17	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	110 %		70-130	1		10/31/12 23:17	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		10/31/12 23:17	2037-26-5	
4-Bromofluorobenzene (S)	75 %		70-130	1		10/31/12 23:17	460-00-4	
1,2-Dichloroethane-d4 (S)	114 %		70-132	1		10/31/12 23:17	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>2.5 %</b>		0.10	1		10/24/12 09:25		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-18 @ 3'**      **Lab ID: 92135495075**      Collected: 10/18/12 09:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.9	1		10/31/12 23:36	67-64-1	
Benzene	ND	ug/kg	4.4	1		10/31/12 23:36	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/31/12 23:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/31/12 23:36	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/31/12 23:36	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/31/12 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.9	1		10/31/12 23:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/31/12 23:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/31/12 23:36	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/31/12 23:36	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/31/12 23:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 23:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 23:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/31/12 23:36	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/31/12 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/31/12 23:36	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/31/12 23:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/31/12 23:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:36	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/31/12 23:36	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/31/12 23:36	87-68-3	
2-Hexanone	ND	ug/kg	44.4	1		10/31/12 23:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/31/12 23:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/31/12 23:36	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/31/12 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.4	1		10/31/12 23:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/31/12 23:36	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-18 @ 3'**      **Lab ID: 92135495075**      Collected: 10/18/12 09:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/31/12 23:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/31/12 23:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/31/12 23:36	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/31/12 23:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 23:36	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/31/12 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/31/12 23:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/31/12 23:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:36	108-67-8	
Vinyl acetate	ND	ug/kg	44.4	1		10/31/12 23:36	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/31/12 23:36	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/31/12 23:36	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/31/12 23:36	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/31/12 23:36	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	112 %		70-130	1		10/31/12 23:36	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		10/31/12 23:36	2037-26-5	
4-Bromofluorobenzene (S)	88 %		70-130	1		10/31/12 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		70-132	1		10/31/12 23:36	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>3.0 %</b>		0.10	1		10/24/12 09:25		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-17 @ 1'**      **Lab ID: 92135495076**      Collected: 10/18/12 09:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	200	ug/kg	89.0	1		10/31/12 23:54	67-64-1	A+
Benzene	ND	ug/kg	4.4	1		10/31/12 23:54	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		10/31/12 23:54	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		10/31/12 23:54	75-27-4	
Bromoform	ND	ug/kg	4.4	1		10/31/12 23:54	75-25-2	
Bromomethane	ND	ug/kg	8.9	1		10/31/12 23:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.0	1		10/31/12 23:54	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		10/31/12 23:54	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	108-90-7	
Chloroethane	ND	ug/kg	8.9	1		10/31/12 23:54	75-00-3	
Chloroform	ND	ug/kg	4.4	1		10/31/12 23:54	67-66-3	
Chloromethane	ND	ug/kg	8.9	1		10/31/12 23:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 23:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		10/31/12 23:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		10/31/12 23:54	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		10/31/12 23:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		10/31/12 23:54	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		10/31/12 23:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.9	1		10/31/12 23:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		10/31/12 23:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		10/31/12 23:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		10/31/12 23:54	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		10/31/12 23:54	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		10/31/12 23:54	87-68-3	
2-Hexanone	ND	ug/kg	44.5	1		10/31/12 23:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		10/31/12 23:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		10/31/12 23:54	99-87-6	
Methylene Chloride	ND	ug/kg	17.8	1		10/31/12 23:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.5	1		10/31/12 23:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		10/31/12 23:54	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-17 @ 1'**      **Lab ID: 92135495076**      Collected: 10/18/12 09:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		10/31/12 23:54	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	103-65-1	
Styrene	ND	ug/kg	4.4	1		10/31/12 23:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		10/31/12 23:54	127-18-4	
Toluene	ND	ug/kg	4.4	1		10/31/12 23:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		10/31/12 23:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		10/31/12 23:54	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		10/31/12 23:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		10/31/12 23:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		10/31/12 23:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		10/31/12 23:54	108-67-8	
Vinyl acetate	ND	ug/kg	44.5	1		10/31/12 23:54	108-05-4	
Vinyl chloride	ND	ug/kg	8.9	1		10/31/12 23:54	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		10/31/12 23:54	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	1		10/31/12 23:54	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		10/31/12 23:54	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	108 %		70-130	1		10/31/12 23:54	1868-53-7	
Toluene-d8 (S)	90 %		70-130	1		10/31/12 23:54	2037-26-5	
4-Bromofluorobenzene (S)	81 %		70-130	1		10/31/12 23:54	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-132	1		10/31/12 23:54	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>2.1 %</b>		0.10	1		10/24/12 09:25		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-17 @ 2'**      **Lab ID: 92135495077**      Collected: 10/18/12 09:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	93.0	1		11/01/12 00:13	67-64-1	
Benzene	ND	ug/kg	4.6	1		11/01/12 00:13	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		11/01/12 00:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		11/01/12 00:13	75-27-4	
Bromoform	ND	ug/kg	4.6	1		11/01/12 00:13	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		11/01/12 00:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	93.0	1		11/01/12 00:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		11/01/12 00:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		11/01/12 00:13	75-00-3	
Chloroform	ND	ug/kg	4.6	1		11/01/12 00:13	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		11/01/12 00:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		11/01/12 00:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		11/01/12 00:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		11/01/12 00:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		11/01/12 00:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		11/01/12 00:13	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		11/01/12 00:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		11/01/12 00:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 00:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 00:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 00:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 00:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 00:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 00:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 00:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 00:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 00:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		11/01/12 00:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		11/01/12 00:13	87-68-3	
2-Hexanone	ND	ug/kg	46.5	1		11/01/12 00:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		11/01/12 00:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		11/01/12 00:13	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		11/01/12 00:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.5	1		11/01/12 00:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		11/01/12 00:13	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-17 @ 2'**      **Lab ID: 92135495077**      Collected: 10/18/12 09:50      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		11/01/12 00:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	103-65-1	
Styrene	ND	ug/kg	4.6	1		11/01/12 00:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		11/01/12 00:13	127-18-4	
Toluene	ND	ug/kg	4.6	1		11/01/12 00:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		11/01/12 00:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		11/01/12 00:13	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		11/01/12 00:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		11/01/12 00:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		11/01/12 00:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		11/01/12 00:13	108-67-8	
Vinyl acetate	ND	ug/kg	46.5	1		11/01/12 00:13	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		11/01/12 00:13	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		11/01/12 00:13	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		11/01/12 00:13	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		11/01/12 00:13	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	104 %		70-130	1		11/01/12 00:13	1868-53-7	
Toluene-d8 (S)	100 %		70-130	1		11/01/12 00:13	2037-26-5	
4-Bromofluorobenzene (S)	83 %		70-130	1		11/01/12 00:13	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-132	1		11/01/12 00:13	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>3.3 %</b>		0.10	1		10/24/12 09:25		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-19 @ 2'**      **Lab ID: 92135495078**      Collected: 10/18/12 10:05      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	88.3	1		11/01/12 00:31	67-64-1	
Benzene	ND	ug/kg	4.4	1		11/01/12 00:31	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		11/01/12 00:31	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		11/01/12 00:31	75-27-4	
Bromoform	ND	ug/kg	4.4	1		11/01/12 00:31	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		11/01/12 00:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.3	1		11/01/12 00:31	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		11/01/12 00:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		11/01/12 00:31	75-00-3	
Chloroform	ND	ug/kg	4.4	1		11/01/12 00:31	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		11/01/12 00:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 00:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		11/01/12 00:31	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		11/01/12 00:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		11/01/12 00:31	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		11/01/12 00:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		11/01/12 00:31	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 00:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 00:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 00:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 00:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 00:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 00:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 00:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 00:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 00:31	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		11/01/12 00:31	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		11/01/12 00:31	87-68-3	
2-Hexanone	ND	ug/kg	44.1	1		11/01/12 00:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		11/01/12 00:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		11/01/12 00:31	99-87-6	
Methylene Chloride	ND	ug/kg	17.7	1		11/01/12 00:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.1	1		11/01/12 00:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		11/01/12 00:31	1634-04-4	

Date: 11/01/2012 04:51 PM

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-19 @ 2'**      **Lab ID: 92135495078**      Collected: 10/18/12 10:05      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		11/01/12 00:31	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	103-65-1	
Styrene	ND	ug/kg	4.4	1		11/01/12 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		11/01/12 00:31	127-18-4	
Toluene	ND	ug/kg	4.4	1		11/01/12 00:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 00:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 00:31	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		11/01/12 00:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		11/01/12 00:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		11/01/12 00:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 00:31	108-67-8	
Vinyl acetate	ND	ug/kg	44.1	1		11/01/12 00:31	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		11/01/12 00:31	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		11/01/12 00:31	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		11/01/12 00:31	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		11/01/12 00:31	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	112 %		70-130	1		11/01/12 00:31	1868-53-7	
Toluene-d8 (S)	97 %		70-130	1		11/01/12 00:31	2037-26-5	
4-Bromofluorobenzene (S)	75 %		70-130	1		11/01/12 00:31	460-00-4	
1,2-Dichloroethane-d4 (S)	115 %		70-132	1		11/01/12 00:31	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>7.7 %</b>		0.10	1		10/24/12 09:26		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-19 @ 3'**      **Lab ID: 92135495079**      Collected: 10/18/12 10:05      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	84.8	1		11/01/12 00:50	67-64-1	
Benzene	ND	ug/kg	4.2	1		11/01/12 00:50	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		11/01/12 00:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		11/01/12 00:50	75-27-4	
Bromoform	ND	ug/kg	4.2	1		11/01/12 00:50	75-25-2	
Bromomethane	ND	ug/kg	8.5	1		11/01/12 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	84.8	1		11/01/12 00:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.2	1		11/01/12 00:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	108-90-7	
Chloroethane	ND	ug/kg	8.5	1		11/01/12 00:50	75-00-3	
Chloroform	ND	ug/kg	4.2	1		11/01/12 00:50	67-66-3	
Chloromethane	ND	ug/kg	8.5	1		11/01/12 00:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		11/01/12 00:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		11/01/12 00:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.2	1		11/01/12 00:50	96-12-8	
Dibromochloromethane	ND	ug/kg	4.2	1		11/01/12 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		11/01/12 00:50	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		11/01/12 00:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.5	1		11/01/12 00:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		11/01/12 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		11/01/12 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		11/01/12 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		11/01/12 00:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		11/01/12 00:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		11/01/12 00:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		11/01/12 00:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		11/01/12 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		11/01/12 00:50	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.2	1		11/01/12 00:50	108-20-3	
Ethylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		11/01/12 00:50	87-68-3	
2-Hexanone	ND	ug/kg	42.4	1		11/01/12 00:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		11/01/12 00:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		11/01/12 00:50	99-87-6	
Methylene Chloride	ND	ug/kg	17.0	1		11/01/12 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.4	1		11/01/12 00:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		11/01/12 00:50	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-19 @ 3'**      **Lab ID: 92135495079**      Collected: 10/18/12 10:05      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.2	1		11/01/12 00:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	103-65-1	
Styrene	ND	ug/kg	4.2	1		11/01/12 00:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		11/01/12 00:50	127-18-4	
Toluene	ND	ug/kg	4.2	1		11/01/12 00:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		11/01/12 00:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		11/01/12 00:50	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		11/01/12 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		11/01/12 00:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		11/01/12 00:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		11/01/12 00:50	108-67-8	
Vinyl acetate	ND	ug/kg	42.4	1		11/01/12 00:50	108-05-4	
Vinyl chloride	ND	ug/kg	8.5	1		11/01/12 00:50	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	1		11/01/12 00:50	1330-20-7	
m&p-Xylene	ND	ug/kg	8.5	1		11/01/12 00:50	179601-23-1	
o-Xylene	ND	ug/kg	4.2	1		11/01/12 00:50	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	105 %		70-130	1		11/01/12 00:50	1868-53-7	
Toluene-d8 (S)	98 %		70-130	1		11/01/12 00:50	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		11/01/12 00:50	460-00-4	
1,2-Dichloroethane-d4 (S)	116 %		70-132	1		11/01/12 00:50	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>5.2 %</b>		0.10	1		10/24/12 09:26		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-20 @ 1'**      **Lab ID: 92135495080**      Collected: 10/18/12 10:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	<b>185</b>	ug/kg	88.0	1		11/01/12 01:08	67-64-1	A+
Benzene	ND	ug/kg	4.4	1		11/01/12 01:08	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		11/01/12 01:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		11/01/12 01:08	75-27-4	
Bromoform	ND	ug/kg	4.4	1		11/01/12 01:08	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		11/01/12 01:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.0	1		11/01/12 01:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		11/01/12 01:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		11/01/12 01:08	75-00-3	
Chloroform	ND	ug/kg	4.4	1		11/01/12 01:08	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		11/01/12 01:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 01:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 01:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		11/01/12 01:08	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		11/01/12 01:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		11/01/12 01:08	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		11/01/12 01:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		11/01/12 01:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:08	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		11/01/12 01:08	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		11/01/12 01:08	87-68-3	
2-Hexanone	ND	ug/kg	44.0	1		11/01/12 01:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		11/01/12 01:08	98-82-8	
p-Isopropyltoluene	<b>15.3</b>	ug/kg	4.4	1		11/01/12 01:08	99-87-6	
Methylene Chloride	ND	ug/kg	17.6	1		11/01/12 01:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.0	1		11/01/12 01:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		11/01/12 01:08	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-20 @ 1'**      **Lab ID: 92135495080**      Collected: 10/18/12 10:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		11/01/12 01:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	103-65-1	
Styrene	ND	ug/kg	4.4	1		11/01/12 01:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		11/01/12 01:08	127-18-4	
Toluene	ND	ug/kg	4.4	1		11/01/12 01:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 01:08	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		11/01/12 01:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		11/01/12 01:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		11/01/12 01:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:08	108-67-8	
Vinyl acetate	ND	ug/kg	44.0	1		11/01/12 01:08	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		11/01/12 01:08	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		11/01/12 01:08	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		11/01/12 01:08	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		11/01/12 01:08	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	106 %		70-130	1		11/01/12 01:08	1868-53-7	
Toluene-d8 (S)	95 %		70-130	1		11/01/12 01:08	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		11/01/12 01:08	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		70-132	1		11/01/12 01:08	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>2.7 %</b>		0.10	1		10/24/12 09:26		



## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Sample Project No.: 92135495

**Sample: B-20 @ 4'**      **Lab ID: 92135495081**      Collected: 10/18/12 10:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	91.6	1		11/01/12 01:27	67-64-1	
Benzene	ND	ug/kg	4.6	1		11/01/12 01:27	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		11/01/12 01:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		11/01/12 01:27	75-27-4	
Bromoform	ND	ug/kg	4.6	1		11/01/12 01:27	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		11/01/12 01:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.6	1		11/01/12 01:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		11/01/12 01:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		11/01/12 01:27	75-00-3	
Chloroform	ND	ug/kg	4.6	1		11/01/12 01:27	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		11/01/12 01:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		11/01/12 01:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		11/01/12 01:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		11/01/12 01:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		11/01/12 01:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		11/01/12 01:27	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		11/01/12 01:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		11/01/12 01:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 01:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 01:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		11/01/12 01:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 01:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 01:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		11/01/12 01:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 01:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 01:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		11/01/12 01:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		11/01/12 01:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		11/01/12 01:27	87-68-3	
2-Hexanone	ND	ug/kg	45.8	1		11/01/12 01:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		11/01/12 01:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		11/01/12 01:27	99-87-6	
Methylene Chloride	ND	ug/kg	18.3	1		11/01/12 01:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.8	1		11/01/12 01:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		11/01/12 01:27	1634-04-4	

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-20 @ 4'**      **Lab ID: 92135495081**      Collected: 10/18/12 10:15      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.6	1		11/01/12 01:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	103-65-1	
Styrene	ND	ug/kg	4.6	1		11/01/12 01:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		11/01/12 01:27	127-18-4	
Toluene	ND	ug/kg	4.6	1		11/01/12 01:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		11/01/12 01:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		11/01/12 01:27	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		11/01/12 01:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		11/01/12 01:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		11/01/12 01:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		11/01/12 01:27	108-67-8	
Vinyl acetate	ND	ug/kg	45.8	1		11/01/12 01:27	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		11/01/12 01:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		11/01/12 01:27	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		11/01/12 01:27	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		11/01/12 01:27	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	107 %		70-130	1		11/01/12 01:27	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		11/01/12 01:27	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-130	1		11/01/12 01:27	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		70-132	1		11/01/12 01:27	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.9 %</b>		0.10	1		10/24/12 09:26		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-21 @ 1'**      **Lab ID: 92135495082**      Collected: 10/18/12 10:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	140	ug/kg	88.2	1		11/01/12 01:45	67-64-1	A+
Benzene	ND	ug/kg	4.4	1		11/01/12 01:45	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		11/01/12 01:45	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		11/01/12 01:45	75-27-4	
Bromoform	ND	ug/kg	4.4	1		11/01/12 01:45	75-25-2	
Bromomethane	ND	ug/kg	8.8	1		11/01/12 01:45	74-83-9	
2-Butanone (MEK)	ND	ug/kg	88.2	1		11/01/12 01:45	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.4	1		11/01/12 01:45	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	108-90-7	
Chloroethane	ND	ug/kg	8.8	1		11/01/12 01:45	75-00-3	
Chloroform	ND	ug/kg	4.4	1		11/01/12 01:45	67-66-3	
Chloromethane	ND	ug/kg	8.8	1		11/01/12 01:45	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 01:45	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		11/01/12 01:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.4	1		11/01/12 01:45	96-12-8	
Dibromochloromethane	ND	ug/kg	4.4	1		11/01/12 01:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		11/01/12 01:45	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		11/01/12 01:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.8	1		11/01/12 01:45	75-71-8	1g
1,1-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		11/01/12 01:45	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:45	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:45	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		11/01/12 01:45	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		11/01/12 01:45	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.4	1		11/01/12 01:45	108-20-3	
Ethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		11/01/12 01:45	87-68-3	
2-Hexanone	ND	ug/kg	44.1	1		11/01/12 01:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		11/01/12 01:45	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		11/01/12 01:45	99-87-6	
Methylene Chloride	ND	ug/kg	17.6	1		11/01/12 01:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.1	1		11/01/12 01:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		11/01/12 01:45	1634-04-4	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-21 @ 1'**      **Lab ID: 92135495082**      Collected: 10/18/12 10:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.4	1		11/01/12 01:45	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	103-65-1	
Styrene	ND	ug/kg	4.4	1		11/01/12 01:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		11/01/12 01:45	127-18-4	
Toluene	ND	ug/kg	4.4	1		11/01/12 01:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		11/01/12 01:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		11/01/12 01:45	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		11/01/12 01:45	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		11/01/12 01:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		11/01/12 01:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		11/01/12 01:45	108-67-8	
Vinyl acetate	ND	ug/kg	44.1	1		11/01/12 01:45	108-05-4	
Vinyl chloride	ND	ug/kg	8.8	1		11/01/12 01:45	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		11/01/12 01:45	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	1		11/01/12 01:45	179601-23-1	
o-Xylene	ND	ug/kg	4.4	1		11/01/12 01:45	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	102 %		70-130	1		11/01/12 01:45	1868-53-7	
Toluene-d8 (S)	96 %		70-130	1		11/01/12 01:45	2037-26-5	
4-Bromofluorobenzene (S)	78 %		70-130	1		11/01/12 01:45	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-132	1		11/01/12 01:45	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>4.6 %</b>		0.10	1		10/24/12 09:26		

## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-21 @ 4'**      **Lab ID: 92135495083**      Collected: 10/18/12 10:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	94.7	1		11/01/12 02:04	67-64-1	
Benzene	ND	ug/kg	4.7	1		11/01/12 02:04	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		11/01/12 02:04	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		11/01/12 02:04	75-27-4	
Bromoform	ND	ug/kg	4.7	1		11/01/12 02:04	75-25-2	
Bromomethane	ND	ug/kg	9.5	1		11/01/12 02:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	94.7	1		11/01/12 02:04	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.7	1		11/01/12 02:04	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	108-90-7	
Chloroethane	ND	ug/kg	9.5	1		11/01/12 02:04	75-00-3	
Chloroform	ND	ug/kg	4.7	1		11/01/12 02:04	67-66-3	
Chloromethane	ND	ug/kg	9.5	1		11/01/12 02:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		11/01/12 02:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		11/01/12 02:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.7	1		11/01/12 02:04	96-12-8	
Dibromochloromethane	ND	ug/kg	4.7	1		11/01/12 02:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		11/01/12 02:04	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		11/01/12 02:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.5	1		11/01/12 02:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		11/01/12 02:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		11/01/12 02:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		11/01/12 02:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		11/01/12 02:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		11/01/12 02:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		11/01/12 02:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		11/01/12 02:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		11/01/12 02:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		11/01/12 02:04	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.7	1		11/01/12 02:04	108-20-3	
Ethylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		11/01/12 02:04	87-68-3	
2-Hexanone	ND	ug/kg	47.3	1		11/01/12 02:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		11/01/12 02:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		11/01/12 02:04	99-87-6	
Methylene Chloride	ND	ug/kg	18.9	1		11/01/12 02:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	47.3	1		11/01/12 02:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		11/01/12 02:04	1634-04-4	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

**Sample: B-21 @ 4'**      **Lab ID: 92135495083**      Collected: 10/18/12 10:35      Received: 10/19/12 13:15      Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260						
Naphthalene	ND	ug/kg	4.7	1		11/01/12 02:04	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	103-65-1	
Styrene	ND	ug/kg	4.7	1		11/01/12 02:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	630-20-6	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		11/01/12 02:04	127-18-4	
Toluene	ND	ug/kg	4.7	1		11/01/12 02:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		11/01/12 02:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		11/01/12 02:04	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		11/01/12 02:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		11/01/12 02:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		11/01/12 02:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		11/01/12 02:04	108-67-8	
Vinyl acetate	ND	ug/kg	47.3	1		11/01/12 02:04	108-05-4	
Vinyl chloride	ND	ug/kg	9.5	1		11/01/12 02:04	75-01-4	
Xylene (Total)	ND	ug/kg	9.5	1		11/01/12 02:04	1330-20-7	
m&p-Xylene	ND	ug/kg	9.5	1		11/01/12 02:04	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1		11/01/12 02:04	95-47-6	
<b>Surrogates</b>								
Dibromofluoromethane (S)	101 %		70-130	1		11/01/12 02:04	1868-53-7	
Toluene-d8 (S)	101 %		70-130	1		11/01/12 02:04	2037-26-5	
4-Bromofluorobenzene (S)	91 %		70-130	1		11/01/12 02:04	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		70-132	1		11/01/12 02:04	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>10.0 %</b>		0.10	1		10/24/12 09:26		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20838 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92135495001, 92135495002, 92135495003, 92135495004

METHOD BLANK: 859800 Matrix: Solid  
Associated Lab Samples: 92135495001, 92135495002, 92135495003, 92135495004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,1-Trichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1,2-Trichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
1,1-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,3-Trichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,3-Trichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,2,4-Trichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2,4-Trimethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichloroethane	ug/kg	ND	6.3	10/25/12 11:06	
1,2-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,3,5-Trimethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,3-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
1,3-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
1,4-Dichlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
2,2-Dichloropropane	ug/kg	ND	6.3	10/25/12 11:06	
2-Butanone (MEK)	ug/kg	ND	126	10/25/12 11:06	
2-Chlorotoluene	ug/kg	ND	6.3	10/25/12 11:06	
2-Hexanone	ug/kg	ND	63.0	10/25/12 11:06	
4-Chlorotoluene	ug/kg	ND	6.3	10/25/12 11:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	63.0	10/25/12 11:06	
Acetone	ug/kg	ND	126	10/25/12 11:06	
Benzene	ug/kg	ND	6.3	10/25/12 11:06	
Bromobenzene	ug/kg	ND	6.3	10/25/12 11:06	
Bromochloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Bromodichloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Bromoform	ug/kg	ND	6.3	10/25/12 11:06	
Bromomethane	ug/kg	ND	12.6	10/25/12 11:06	
Carbon tetrachloride	ug/kg	ND	6.3	10/25/12 11:06	
Chlorobenzene	ug/kg	ND	6.3	10/25/12 11:06	
Chloroethane	ug/kg	ND	12.6	10/25/12 11:06	
Chloroform	ug/kg	ND	6.3	10/25/12 11:06	
Chloromethane	ug/kg	ND	12.6	10/25/12 11:06	
cis-1,2-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
cis-1,3-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
Dibromochloromethane	ug/kg	ND	6.3	10/25/12 11:06	
Dibromomethane	ug/kg	ND	6.3	10/25/12 11:06	
Dichlorodifluoromethane	ug/kg	ND	12.6	10/25/12 11:06	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 859800

Matrix: Solid

Associated Lab Samples: 92135495001, 92135495002, 92135495003, 92135495004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.3	10/25/12 11:06	
Ethylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Hexachloro-1,3-butadiene	ug/kg	ND	6.3	10/25/12 11:06	
Isopropylbenzene (Cumene)	ug/kg	ND	6.3	10/25/12 11:06	
m&p-Xylene	ug/kg	ND	12.6	10/25/12 11:06	
Methyl-tert-butyl ether	ug/kg	ND	6.3	10/25/12 11:06	
Methylene Chloride	ug/kg	ND	25.2	10/25/12 11:06	
n-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
n-Propylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Naphthalene	ug/kg	ND	6.3	10/25/12 11:06	
o-Xylene	ug/kg	ND	6.3	10/25/12 11:06	
p-Isopropyltoluene	ug/kg	ND	6.3	10/25/12 11:06	
sec-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Styrene	ug/kg	ND	6.3	10/25/12 11:06	
tert-Butylbenzene	ug/kg	ND	6.3	10/25/12 11:06	
Tetrachloroethene	ug/kg	ND	6.3	10/25/12 11:06	
Toluene	ug/kg	ND	6.3	10/25/12 11:06	
trans-1,2-Dichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
trans-1,3-Dichloropropene	ug/kg	ND	6.3	10/25/12 11:06	
Trichloroethene	ug/kg	ND	6.3	10/25/12 11:06	
Trichlorofluoromethane	ug/kg	ND	6.3	10/25/12 11:06	
Vinyl acetate	ug/kg	ND	63.0	10/25/12 11:06	
Vinyl chloride	ug/kg	ND	12.6	10/25/12 11:06	
Xylene (Total)	ug/kg	ND	12.6	10/25/12 11:06	
1,2-Dichloroethane-d4 (S)	%	99	70-132	10/25/12 11:06	
4-Bromofluorobenzene (S)	%	100	70-130	10/25/12 11:06	
Dibromofluoromethane (S)	%	108	70-130	10/25/12 11:06	
Toluene-d8 (S)	%	101	70-130	10/25/12 11:06	

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	56.7	55.4	98	70-131	
1,1,1-Trichloroethane	ug/kg	56.7	55.2	97	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	56.7	54.5	96	70-130	
1,1,2-Trichloroethane	ug/kg	56.7	56.3	99	70-132	
1,1-Dichloroethane	ug/kg	56.7	56.4	99	70-143	
1,1-Dichloroethene	ug/kg	56.7	59.6	105	70-137	
1,1-Dichloropropene	ug/kg	56.7	47.9	84	70-135	
1,2,3-Trichlorobenzene	ug/kg	56.7	58.2	103	69-153	
1,2,3-Trichloropropane	ug/kg	56.7	56.8	100	70-130	
1,2,4-Trichlorobenzene	ug/kg	56.7	58.0	102	55-171	
1,2,4-Trimethylbenzene	ug/kg	56.7	57.8	102	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	56.7	56.7	100	68-141	
1,2-Dibromoethane (EDB)	ug/kg	56.7	57.0	101	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	56.7	58.7	104	70-140	
1,2-Dichloroethane	ug/kg	56.7	50.0	88	70-137	
1,2-Dichloropropane	ug/kg	56.7	52.1	92	70-133	
1,3,5-Trimethylbenzene	ug/kg	56.7	57.6	102	70-143	
1,3-Dichlorobenzene	ug/kg	56.7	56.7	100	70-144	
1,3-Dichloropropane	ug/kg	56.7	52.9	93	70-132	
1,4-Dichlorobenzene	ug/kg	56.7	56.3	99	70-142	
2,2-Dichloropropane	ug/kg	56.7	54.3	96	68-152	
2-Butanone (MEK)	ug/kg	113	98.8J	87	70-149	
2-Chlorotoluene	ug/kg	56.7	56.9	100	70-141	
2-Hexanone	ug/kg	113	113	100	70-149	
4-Chlorotoluene	ug/kg	56.7	58.5	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	113	117	103	70-153	
Acetone	ug/kg	113	92.6J	82	70-157	
Benzene	ug/kg	56.7	57.3	101	70-130	
Bromobenzene	ug/kg	56.7	56.7	100	70-141	
Bromochloromethane	ug/kg	56.7	57.5	101	70-149	
Bromodichloromethane	ug/kg	56.7	57.0	101	70-130	
Bromoform	ug/kg	56.7	59.7	105	70-131	
Bromomethane	ug/kg	56.7	64.4	114	64-136	
Carbon tetrachloride	ug/kg	56.7	54.0	95	70-154	
Chlorobenzene	ug/kg	56.7	57.6	102	70-135	
Chloroethane	ug/kg	56.7	61.8	109	68-151	
Chloroform	ug/kg	56.7	55.9	99	70-130	
Chloromethane	ug/kg	56.7	67.3	119	70-132	
cis-1,2-Dichloroethene	ug/kg	56.7	59.1	104	70-140	
cis-1,3-Dichloropropene	ug/kg	56.7	56.6	100	70-137	
Dibromochloromethane	ug/kg	56.7	56.7	100	70-130	
Dibromomethane	ug/kg	56.7	57.7	102	70-136	
Dichlorodifluoromethane	ug/kg	56.7	77.8	137	36-148	
Diisopropyl ether	ug/kg	56.7	53.2	94	70-139	
Ethylbenzene	ug/kg	56.7	58.7	103	70-137	
Hexachloro-1,3-butadiene	ug/kg	56.7	56.4	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	56.7	60.6	107	70-141	
m&p-Xylene	ug/kg	113	121	107	70-140	
Methyl-tert-butyl ether	ug/kg	56.7	54.8	97	45-150	
Methylene Chloride	ug/kg	56.7	52.3	92	70-133	
n-Butylbenzene	ug/kg	56.7	57.2	101	65-155	
n-Propylbenzene	ug/kg	56.7	57.1	101	70-148	
Naphthalene	ug/kg	56.7	59.6	105	70-148	
o-Xylene	ug/kg	56.7	57.9	102	70-141	
p-Isopropyltoluene	ug/kg	56.7	58.6	103	70-148	
sec-Butylbenzene	ug/kg	56.7	57.4	101	70-145	
Styrene	ug/kg	56.7	61.7	109	70-138	
tert-Butylbenzene	ug/kg	56.7	57.4	101	70-143	
Tetrachloroethene	ug/kg	56.7	56.2	99	70-140	
Toluene	ug/kg	56.7	58.1	103	70-130	
trans-1,2-Dichloroethene	ug/kg	56.7	58.5	103	70-136	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 859801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	56.7	60.8	107	70-138	
Trichloroethene	ug/kg	56.7	55.4	98	70-132	
Trichlorofluoromethane	ug/kg	56.7	62.5	110	69-134	
Vinyl acetate	ug/kg	113	108	96	24-161	
Vinyl chloride	ug/kg	56.7	58.5	103	55-140	
Xylene (Total)	ug/kg	170	179	105	70-141	
1,2-Dichloroethane-d4 (S)	%			94	70-132	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20844 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92135495005, 92135495006, 92135495007, 92135495008, 92135495009, 92135495010, 92135495011, 92135495012, 92135495013, 92135495014, 92135495015, 92135495016

METHOD BLANK: 860201

Matrix: Solid

Associated Lab Samples: 92135495005, 92135495006, 92135495007, 92135495008, 92135495009, 92135495010, 92135495011, 92135495012, 92135495013, 92135495014, 92135495015, 92135495016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,1,1-Trichloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,1,2-Trichloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,1-Dichloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,1-Dichloroethene	ug/kg	ND	5.8	10/25/12 23:26	
1,1-Dichloropropene	ug/kg	ND	5.8	10/25/12 23:26	
1,2,3-Trichlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,2,3-Trichloropropane	ug/kg	ND	5.8	10/25/12 23:26	
1,2,4-Trichlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,2,4-Trimethylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.8	10/25/12 23:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.8	10/25/12 23:26	
1,2-Dichlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,2-Dichloroethane	ug/kg	ND	5.8	10/25/12 23:26	
1,2-Dichloropropane	ug/kg	ND	5.8	10/25/12 23:26	
1,3,5-Trimethylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,3-Dichlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
1,3-Dichloropropane	ug/kg	ND	5.8	10/25/12 23:26	
1,4-Dichlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
2,2-Dichloropropane	ug/kg	ND	5.8	10/25/12 23:26	
2-Butanone (MEK)	ug/kg	ND	115	10/25/12 23:26	
2-Chlorotoluene	ug/kg	ND	5.8	10/25/12 23:26	
2-Hexanone	ug/kg	ND	57.6	10/25/12 23:26	
4-Chlorotoluene	ug/kg	ND	5.8	10/25/12 23:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	57.6	10/25/12 23:26	
Acetone	ug/kg	ND	115	10/25/12 23:26	
Benzene	ug/kg	ND	5.8	10/25/12 23:26	
Bromobenzene	ug/kg	ND	5.8	10/25/12 23:26	
Bromochloromethane	ug/kg	ND	5.8	10/25/12 23:26	
Bromodichloromethane	ug/kg	ND	5.8	10/25/12 23:26	
Bromoform	ug/kg	ND	5.8	10/25/12 23:26	
Bromomethane	ug/kg	ND	11.5	10/25/12 23:26	
Carbon tetrachloride	ug/kg	ND	5.8	10/25/12 23:26	
Chlorobenzene	ug/kg	ND	5.8	10/25/12 23:26	
Chloroethane	ug/kg	ND	11.5	10/25/12 23:26	
Chloroform	ug/kg	ND	5.8	10/25/12 23:26	
Chloromethane	ug/kg	ND	11.5	10/25/12 23:26	
cis-1,2-Dichloroethene	ug/kg	ND	5.8	10/25/12 23:26	
cis-1,3-Dichloropropene	ug/kg	ND	5.8	10/25/12 23:26	
Dibromochloromethane	ug/kg	ND	5.8	10/25/12 23:26	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 860201

Matrix: Solid

Associated Lab Samples: 92135495005, 92135495006, 92135495007, 92135495008, 92135495009, 92135495010, 92135495011, 92135495012, 92135495013, 92135495014, 92135495015, 92135495016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.8	10/25/12 23:26	
Dichlorodifluoromethane	ug/kg	ND	11.5	10/25/12 23:26	
Diisopropyl ether	ug/kg	ND	5.8	10/25/12 23:26	
Ethylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
Hexachloro-1,3-butadiene	ug/kg	ND	5.8	10/25/12 23:26	
Isopropylbenzene (Cumene)	ug/kg	ND	5.8	10/25/12 23:26	
m&p-Xylene	ug/kg	ND	11.5	10/25/12 23:26	
Methyl-tert-butyl ether	ug/kg	ND	5.8	10/25/12 23:26	
Methylene Chloride	ug/kg	ND	23.0	10/25/12 23:26	
n-Butylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
n-Propylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
Naphthalene	ug/kg	ND	5.8	10/25/12 23:26	
o-Xylene	ug/kg	ND	5.8	10/25/12 23:26	
p-Isopropyltoluene	ug/kg	ND	5.8	10/25/12 23:26	
sec-Butylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
Styrene	ug/kg	ND	5.8	10/25/12 23:26	
tert-Butylbenzene	ug/kg	ND	5.8	10/25/12 23:26	
Tetrachloroethene	ug/kg	ND	5.8	10/25/12 23:26	
Toluene	ug/kg	ND	5.8	10/25/12 23:26	
trans-1,2-Dichloroethene	ug/kg	ND	5.8	10/25/12 23:26	
trans-1,3-Dichloropropene	ug/kg	ND	5.8	10/25/12 23:26	
Trichloroethene	ug/kg	ND	5.8	10/25/12 23:26	
Trichlorofluoromethane	ug/kg	ND	5.8	10/25/12 23:26	
Vinyl acetate	ug/kg	ND	57.6	10/25/12 23:26	
Vinyl chloride	ug/kg	ND	11.5	10/25/12 23:26	
Xylene (Total)	ug/kg	ND	11.5	10/25/12 23:26	
1,2-Dichloroethane-d4 (S)	%	107	70-132	10/25/12 23:26	
4-Bromofluorobenzene (S)	%	96	70-130	10/25/12 23:26	
Dibromofluoromethane (S)	%	90	70-130	10/25/12 23:26	
Toluene-d8 (S)	%	106	70-130	10/25/12 23:26	

LABORATORY CONTROL SAMPLE: 860202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	62	65.4	105	70-131	
1,1,1-Trichloroethane	ug/kg	62	63.2	102	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	62	58.9	95	70-130	
1,1,2-Trichloroethane	ug/kg	62	62.8	101	70-132	
1,1-Dichloroethane	ug/kg	62	58.8	95	70-143	
1,1-Dichloroethene	ug/kg	62	52.6	85	70-137	
1,1-Dichloropropene	ug/kg	62	58.0	94	70-135	
1,2,3-Trichlorobenzene	ug/kg	62	60.0	97	69-153	
1,2,3-Trichloropropane	ug/kg	62	59.3	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	62	55.8	90	55-171	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 860202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	62	63.0	102	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	62	67.0	108	68-141	
1,2-Dibromoethane (EDB)	ug/kg	62	63.6	103	70-130	
1,2-Dichlorobenzene	ug/kg	62	63.5	102	70-140	
1,2-Dichloroethane	ug/kg	62	52.4	84	70-137	
1,2-Dichloropropane	ug/kg	62	61.4	99	70-133	
1,3,5-Trimethylbenzene	ug/kg	62	63.7	103	70-143	
1,3-Dichlorobenzene	ug/kg	62	61.0	98	70-144	
1,3-Dichloropropane	ug/kg	62	64.4	104	70-132	
1,4-Dichlorobenzene	ug/kg	62	58.5	94	70-142	
2,2-Dichloropropane	ug/kg	62	55.0	89	68-152	
2-Butanone (MEK)	ug/kg	124	97.4J	78	70-149	
2-Chlorotoluene	ug/kg	62	63.5	102	70-141	
2-Hexanone	ug/kg	124	128	103	70-149	
4-Chlorotoluene	ug/kg	62	62.5	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	124	124	100	70-153	
Acetone	ug/kg	124	108J	87	70-157	
Benzene	ug/kg	62	63.0	102	70-130	
Bromobenzene	ug/kg	62	65.7	106	70-141	
Bromochloromethane	ug/kg	62	57.2	92	70-149	
Bromodichloromethane	ug/kg	62	60.8	98	70-130	
Bromoform	ug/kg	62	65.1	105	70-131	
Bromomethane	ug/kg	62	54.9	89	64-136	
Carbon tetrachloride	ug/kg	62	62.8	101	70-154	
Chlorobenzene	ug/kg	62	63.4	102	70-135	
Chloroethane	ug/kg	62	55.9	90	68-151	
Chloroform	ug/kg	62	59.5	96	70-130	
Chloromethane	ug/kg	62	64.3	104	70-132	
cis-1,2-Dichloroethene	ug/kg	62	61.1	98	70-140	
cis-1,3-Dichloropropene	ug/kg	62	62.9	101	70-137	
Dibromochloromethane	ug/kg	62	67.3	109	70-130	
Dibromomethane	ug/kg	62	57.8	93	70-136	
Dichlorodifluoromethane	ug/kg	62	68.4	110	36-148	
Diisopropyl ether	ug/kg	62	62.9	101	70-139	
Ethylbenzene	ug/kg	62	62.8	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	62	58.4	94	70-145	
Isopropylbenzene (Cumene)	ug/kg	62	63.7	103	70-141	
m&p-Xylene	ug/kg	124	125	101	70-140	
Methyl-tert-butyl ether	ug/kg	62	59.8	96	45-150	
Methylene Chloride	ug/kg	62	54.5	88	70-133	
n-Butylbenzene	ug/kg	62	57.7	93	65-155	
n-Propylbenzene	ug/kg	62	62.9	101	70-148	
Naphthalene	ug/kg	62	64.1	103	70-148	
o-Xylene	ug/kg	62	64.1	103	70-141	
p-Isopropyltoluene	ug/kg	62	61.7	99	70-148	
sec-Butylbenzene	ug/kg	62	64.0	103	70-145	
Styrene	ug/kg	62	63.6	102	70-138	
tert-Butylbenzene	ug/kg	62	66.3	107	70-143	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 860202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	62	61.7	99	70-140	
Toluene	ug/kg	62	60.4	97	70-130	
trans-1,2-Dichloroethene	ug/kg	62	58.2	94	70-136	
trans-1,3-Dichloropropene	ug/kg	62	64.8	104	70-138	
Trichloroethene	ug/kg	62	63.2	102	70-132	
Trichlorofluoromethane	ug/kg	62	62.5	101	69-134	
Vinyl acetate	ug/kg	124	55.1J	44	24-161	
Vinyl chloride	ug/kg	62	53.6	86	55-140	
Xylene (Total)	ug/kg	186	189	102	70-141	
1,2-Dichloroethane-d4 (S)	%			87	70-132	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 860911

Parameter	Units	92135495006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	47.9	53.5	112	49-180	
Benzene	ug/kg	ND	47.9	54.4	114	50-166	
Chlorobenzene	ug/kg	ND	47.9	62.6	131	43-169	
Toluene	ug/kg	ND	47.9	70.5	147	52-163	
Trichloroethene	ug/kg	ND	47.9	56.4	118	49-167	
1,2-Dichloroethane-d4 (S)	%				91	70-132	
4-Bromofluorobenzene (S)	%				94	70-130	
Dibromofluoromethane (S)	%				98	70-130	
Toluene-d8 (S)	%				116	70-130	

SAMPLE DUPLICATE: 860910

Parameter	Units	92135495005 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 860910

Parameter	Units	92135495005 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	1.2J		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

SAMPLE DUPLICATE: 860910

Parameter	Units	92135495005 Result	Dup Result	RPD	Qualifiers
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	107	109	4	
4-Bromofluorobenzene (S)	%	94	94	6	
Dibromofluoromethane (S)	%	107	119	5	
Toluene-d8 (S)	%	101	101	5	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20876 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92135495017, 92135495018, 92135495019, 92135495020

METHOD BLANK: 861749 Matrix: Solid  
Associated Lab Samples: 92135495017, 92135495018, 92135495019, 92135495020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,1,1-Trichloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,1,2-Trichloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,1-Dichloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,1-Dichloroethene	ug/kg	ND	6.1	10/28/12 12:26	
1,1-Dichloropropene	ug/kg	ND	6.1	10/28/12 12:26	
1,2,3-Trichlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,2,3-Trichloropropane	ug/kg	ND	6.1	10/28/12 12:26	
1,2,4-Trichlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,2,4-Trimethylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.1	10/28/12 12:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.1	10/28/12 12:26	
1,2-Dichlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,2-Dichloroethane	ug/kg	ND	6.1	10/28/12 12:26	
1,2-Dichloropropane	ug/kg	ND	6.1	10/28/12 12:26	
1,3,5-Trimethylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,3-Dichlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
1,3-Dichloropropane	ug/kg	ND	6.1	10/28/12 12:26	
1,4-Dichlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
2,2-Dichloropropane	ug/kg	ND	6.1	10/28/12 12:26	
2-Butanone (MEK)	ug/kg	ND	122	10/28/12 12:26	
2-Chlorotoluene	ug/kg	ND	6.1	10/28/12 12:26	
2-Hexanone	ug/kg	ND	60.8	10/28/12 12:26	
4-Chlorotoluene	ug/kg	ND	6.1	10/28/12 12:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	60.8	10/28/12 12:26	
Acetone	ug/kg	ND	122	10/28/12 12:26	
Benzene	ug/kg	ND	6.1	10/28/12 12:26	
Bromobenzene	ug/kg	ND	6.1	10/28/12 12:26	
Bromochloromethane	ug/kg	ND	6.1	10/28/12 12:26	
Bromodichloromethane	ug/kg	ND	6.1	10/28/12 12:26	
Bromoform	ug/kg	ND	6.1	10/28/12 12:26	
Bromomethane	ug/kg	ND	12.2	10/28/12 12:26	
Carbon tetrachloride	ug/kg	ND	6.1	10/28/12 12:26	
Chlorobenzene	ug/kg	ND	6.1	10/28/12 12:26	
Chloroethane	ug/kg	ND	12.2	10/28/12 12:26	
Chloroform	ug/kg	ND	6.1	10/28/12 12:26	
Chloromethane	ug/kg	ND	12.2	10/28/12 12:26	
cis-1,2-Dichloroethene	ug/kg	ND	6.1	10/28/12 12:26	
cis-1,3-Dichloropropene	ug/kg	ND	6.1	10/28/12 12:26	
Dibromochloromethane	ug/kg	ND	6.1	10/28/12 12:26	
Dibromomethane	ug/kg	ND	6.1	10/28/12 12:26	
Dichlorodifluoromethane	ug/kg	ND	12.2	10/28/12 12:26	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 861749

Matrix: Solid

Associated Lab Samples: 92135495017, 92135495018, 92135495019, 92135495020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.1	10/28/12 12:26	
Ethylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
Hexachloro-1,3-butadiene	ug/kg	ND	6.1	10/28/12 12:26	
Isopropylbenzene (Cumene)	ug/kg	ND	6.1	10/28/12 12:26	
m&p-Xylene	ug/kg	ND	12.2	10/28/12 12:26	
Methyl-tert-butyl ether	ug/kg	ND	6.1	10/28/12 12:26	
Methylene Chloride	ug/kg	ND	24.3	10/28/12 12:26	
n-Butylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
n-Propylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
Naphthalene	ug/kg	ND	6.1	10/28/12 12:26	
o-Xylene	ug/kg	ND	6.1	10/28/12 12:26	
p-Isopropyltoluene	ug/kg	ND	6.1	10/28/12 12:26	
sec-Butylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
Styrene	ug/kg	ND	6.1	10/28/12 12:26	
tert-Butylbenzene	ug/kg	ND	6.1	10/28/12 12:26	
Tetrachloroethene	ug/kg	ND	6.1	10/28/12 12:26	
Toluene	ug/kg	ND	6.1	10/28/12 12:26	
trans-1,2-Dichloroethene	ug/kg	ND	6.1	10/28/12 12:26	
trans-1,3-Dichloropropene	ug/kg	ND	6.1	10/28/12 12:26	
Trichloroethene	ug/kg	ND	6.1	10/28/12 12:26	
Trichlorofluoromethane	ug/kg	ND	6.1	10/28/12 12:26	
Vinyl acetate	ug/kg	ND	60.8	10/28/12 12:26	
Vinyl chloride	ug/kg	ND	12.2	10/28/12 12:26	
Xylene (Total)	ug/kg	ND	12.2	10/28/12 12:26	
1,2-Dichloroethane-d4 (S)	%	110	70-132	10/28/12 12:26	
4-Bromofluorobenzene (S)	%	95	70-130	10/28/12 12:26	
Dibromofluoromethane (S)	%	103	70-130	10/28/12 12:26	
Toluene-d8 (S)	%	98	70-130	10/28/12 12:26	

LABORATORY CONTROL SAMPLE: 861750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	59.4	64.6	109	70-131	
1,1,1-Trichloroethane	ug/kg	59.4	65.8	111	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	59.4	61.3	103	70-130	
1,1,2-Trichloroethane	ug/kg	59.4	65.7	111	70-132	
1,1-Dichloroethane	ug/kg	59.4	56.9	96	70-143	
1,1-Dichloroethene	ug/kg	59.4	63.5	107	70-137	
1,1-Dichloropropene	ug/kg	59.4	59.4	100	70-135	
1,2,3-Trichlorobenzene	ug/kg	59.4	71.1	120	69-153	
1,2,3-Trichloropropane	ug/kg	59.4	63.3	107	70-130	
1,2,4-Trichlorobenzene	ug/kg	59.4	68.7	116	55-171	
1,2,4-Trimethylbenzene	ug/kg	59.4	65.9	111	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	59.4	65.0	109	68-141	
1,2-Dibromoethane (EDB)	ug/kg	59.4	66.4	112	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	59.4	63.6	107	70-140	
1,2-Dichloroethane	ug/kg	59.4	63.5	107	70-137	
1,2-Dichloropropane	ug/kg	59.4	62.5	105	70-133	
1,3,5-Trimethylbenzene	ug/kg	59.4	65.0	109	70-143	
1,3-Dichlorobenzene	ug/kg	59.4	62.8	106	70-144	
1,3-Dichloropropane	ug/kg	59.4	65.6	110	70-132	
1,4-Dichlorobenzene	ug/kg	59.4	63.1	106	70-142	
2,2-Dichloropropane	ug/kg	59.4	61.7	104	68-152	
2-Butanone (MEK)	ug/kg	119	124	104	70-149	
2-Chlorotoluene	ug/kg	59.4	64.7	109	70-141	
2-Hexanone	ug/kg	119	149	125	70-149	
4-Chlorotoluene	ug/kg	59.4	65.1	110	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	119	138	116	70-153	
Acetone	ug/kg	119	124	105	70-157	
Benzene	ug/kg	59.4	64.6	109	70-130	
Bromobenzene	ug/kg	59.4	66.4	112	70-141	
Bromochloromethane	ug/kg	59.4	58.6	99	70-149	
Bromodichloromethane	ug/kg	59.4	63.8	107	70-130	
Bromoform	ug/kg	59.4	69.6	117	70-131	
Bromomethane	ug/kg	59.4	47.5	80	64-136	
Carbon tetrachloride	ug/kg	59.4	64.9	109	70-154	
Chlorobenzene	ug/kg	59.4	62.7	106	70-135	
Chloroethane	ug/kg	59.4	69.3	117	68-151	
Chloroform	ug/kg	59.4	62.3	105	70-130	
Chloromethane	ug/kg	59.4	69.2	117	70-132	
cis-1,2-Dichloroethene	ug/kg	59.4	61.9	104	70-140	
cis-1,3-Dichloropropene	ug/kg	59.4	67.6	114	70-137	
Dibromochloromethane	ug/kg	59.4	70.0	118	70-130	
Dibromomethane	ug/kg	59.4	61.2	103	70-136	
Dichlorodifluoromethane	ug/kg	59.4	68.4	115	36-148	
Diisopropyl ether	ug/kg	59.4	62.1	105	70-139	
Ethylbenzene	ug/kg	59.4	63.2	106	70-137	
Hexachloro-1,3-butadiene	ug/kg	59.4	64.6	109	70-145	
Isopropylbenzene (Cumene)	ug/kg	59.4	64.2	108	70-141	
m&p-Xylene	ug/kg	119	127	107	70-140	
Methyl-tert-butyl ether	ug/kg	59.4	67.6	114	45-150	
Methylene Chloride	ug/kg	59.4	59.9	101	70-133	
n-Butylbenzene	ug/kg	59.4	67.3	113	65-155	
n-Propylbenzene	ug/kg	59.4	64.4	108	70-148	
Naphthalene	ug/kg	59.4	68.5	115	70-148	
o-Xylene	ug/kg	59.4	63.2	106	70-141	
p-Isopropyltoluene	ug/kg	59.4	67.0	113	70-148	
sec-Butylbenzene	ug/kg	59.4	65.2	110	70-145	
Styrene	ug/kg	59.4	64.9	109	70-138	
tert-Butylbenzene	ug/kg	59.4	65.6	110	70-143	
Tetrachloroethene	ug/kg	59.4	62.2	105	70-140	
Toluene	ug/kg	59.4	61.3	103	70-130	
trans-1,2-Dichloroethene	ug/kg	59.4	59.9	101	70-136	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	59.4	69.3	117	70-138	
Trichloroethene	ug/kg	59.4	61.0	103	70-132	
Trichlorofluoromethane	ug/kg	59.4	71.7	121	69-134	
Vinyl acetate	ug/kg	119	121	102	24-161	
Vinyl chloride	ug/kg	59.4	60.0	101	55-140	
Xylene (Total)	ug/kg	178	190	107	70-141	
1,2-Dichloroethane-d4 (S)	%			102	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 861830

Parameter	Units	92135516014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	50.9	47.9	94	49-180	
Benzene	ug/kg	ND	50.9	45.4	89	50-166	
Chlorobenzene	ug/kg	ND	50.9	58.7	115	43-169	
Toluene	ug/kg	ND	50.9	57.2	113	52-163	
Trichloroethene	ug/kg	3.0J	50.9	75.6	143	49-167	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				98	70-130	
Dibromofluoromethane (S)	%				111	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 861829

Parameter	Units	92136087002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 861829

Parameter	Units	92136087002 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	31.2J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 861829

Parameter	Units	92136087002 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	106	97	13	
4-Bromofluorobenzene (S)	%	101	92	13	
Dibromofluoromethane (S)	%	91	92	3	
Toluene-d8 (S)	%	103	97	9	



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20888 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92135495021, 92135495022, 92135495023, 92135495024, 92135495025, 92135495026, 92135495027

METHOD BLANK: 861895 Matrix: Solid  
 Associated Lab Samples: 92135495021, 92135495022, 92135495023, 92135495024, 92135495025, 92135495026, 92135495027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,1-Trichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1,2-Trichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
1,1-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,3-Trichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,3-Trichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,2,4-Trichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2,4-Trimethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichloroethane	ug/kg	ND	5.4	10/29/12 10:09	
1,2-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,3,5-Trimethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,3-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
1,3-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
1,4-Dichlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
2,2-Dichloropropane	ug/kg	ND	5.4	10/29/12 10:09	
2-Butanone (MEK)	ug/kg	ND	108	10/29/12 10:09	
2-Chlorotoluene	ug/kg	ND	5.4	10/29/12 10:09	
2-Hexanone	ug/kg	ND	54.2	10/29/12 10:09	
4-Chlorotoluene	ug/kg	ND	5.4	10/29/12 10:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	54.2	10/29/12 10:09	
Acetone	ug/kg	ND	108	10/29/12 10:09	
Benzene	ug/kg	ND	5.4	10/29/12 10:09	
Bromobenzene	ug/kg	ND	5.4	10/29/12 10:09	
Bromochloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Bromodichloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Bromoform	ug/kg	ND	5.4	10/29/12 10:09	
Bromomethane	ug/kg	ND	10.8	10/29/12 10:09	
Carbon tetrachloride	ug/kg	ND	5.4	10/29/12 10:09	
Chlorobenzene	ug/kg	ND	5.4	10/29/12 10:09	
Chloroethane	ug/kg	ND	10.8	10/29/12 10:09	
Chloroform	ug/kg	ND	5.4	10/29/12 10:09	
Chloromethane	ug/kg	ND	10.8	10/29/12 10:09	
cis-1,2-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
cis-1,3-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
Dibromochloromethane	ug/kg	ND	5.4	10/29/12 10:09	
Dibromomethane	ug/kg	ND	5.4	10/29/12 10:09	
Dichlorodifluoromethane	ug/kg	ND	10.8	10/29/12 10:09	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

METHOD BLANK: 861895

Matrix: Solid

Associated Lab Samples: 92135495021, 92135495022, 92135495023, 92135495024, 92135495025, 92135495026, 92135495027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	5.4	10/29/12 10:09	
Ethylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Hexachloro-1,3-butadiene	ug/kg	ND	5.4	10/29/12 10:09	
Isopropylbenzene (Cumene)	ug/kg	ND	5.4	10/29/12 10:09	
m&p-Xylene	ug/kg	ND	10.8	10/29/12 10:09	
Methyl-tert-butyl ether	ug/kg	ND	5.4	10/29/12 10:09	
Methylene Chloride	ug/kg	ND	21.7	10/29/12 10:09	
n-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
n-Propylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Naphthalene	ug/kg	ND	5.4	10/29/12 10:09	
o-Xylene	ug/kg	ND	5.4	10/29/12 10:09	
p-Isopropyltoluene	ug/kg	ND	5.4	10/29/12 10:09	
sec-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Styrene	ug/kg	ND	5.4	10/29/12 10:09	
tert-Butylbenzene	ug/kg	ND	5.4	10/29/12 10:09	
Tetrachloroethene	ug/kg	ND	5.4	10/29/12 10:09	
Toluene	ug/kg	ND	5.4	10/29/12 10:09	
trans-1,2-Dichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
trans-1,3-Dichloropropene	ug/kg	ND	5.4	10/29/12 10:09	
Trichloroethene	ug/kg	ND	5.4	10/29/12 10:09	
Trichlorofluoromethane	ug/kg	ND	5.4	10/29/12 10:09	
Vinyl acetate	ug/kg	ND	54.2	10/29/12 10:09	
Vinyl chloride	ug/kg	ND	10.8	10/29/12 10:09	
Xylene (Total)	ug/kg	ND	10.8	10/29/12 10:09	
1,2-Dichloroethane-d4 (S)	%	108	70-132	10/29/12 10:09	
4-Bromofluorobenzene (S)	%	104	70-130	10/29/12 10:09	
Dibromofluoromethane (S)	%	106	70-130	10/29/12 10:09	
Toluene-d8 (S)	%	102	70-130	10/29/12 10:09	

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	58.7	54.5	93	70-131	
1,1,1-Trichloroethane	ug/kg	58.7	42.2	72	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	58.7	56.5	96	70-130	
1,1,2-Trichloroethane	ug/kg	58.7	58.1	99	70-132	
1,1-Dichloroethane	ug/kg	58.7	55.3	94	70-143	
1,1-Dichloroethene	ug/kg	58.7	55.0	94	70-137	
1,1-Dichloropropene	ug/kg	58.7	39.5	67	70-135 L0	
1,2,3-Trichlorobenzene	ug/kg	58.7	59.6	102	69-153	
1,2,3-Trichloropropane	ug/kg	58.7	58.1	99	70-130	
1,2,4-Trichlorobenzene	ug/kg	58.7	58.9	100	55-171	
1,2,4-Trimethylbenzene	ug/kg	58.7	56.6	96	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	58.7	59.8	102	68-141	
1,2-Dibromoethane (EDB)	ug/kg	58.7	56.5	96	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	58.7	54.4	93	70-140	
1,2-Dichloroethane	ug/kg	58.7	57.7	98	70-137	
1,2-Dichloropropane	ug/kg	58.7	49.3	84	70-133	
1,3,5-Trimethylbenzene	ug/kg	58.7	56.3	96	70-143	
1,3-Dichlorobenzene	ug/kg	58.7	54.4	93	70-144	
1,3-Dichloropropane	ug/kg	58.7	51.3	87	70-132	
1,4-Dichlorobenzene	ug/kg	58.7	54.4	93	70-142	
2,2-Dichloropropane	ug/kg	58.7	43.0	73	68-152	
2-Butanone (MEK)	ug/kg	117	111J	94	70-149	
2-Chlorotoluene	ug/kg	58.7	54.2	92	70-141	
2-Hexanone	ug/kg	117	133	114	70-149	
4-Chlorotoluene	ug/kg	58.7	55.6	95	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	117	136	116	70-153	
Acetone	ug/kg	117	107J	91	70-157	
Benzene	ug/kg	58.7	55.8	95	70-130	
Bromobenzene	ug/kg	58.7	54.6	93	70-141	
Bromochloromethane	ug/kg	58.7	48.2	82	70-149	
Bromodichloromethane	ug/kg	58.7	53.2	91	70-130	
Bromoform	ug/kg	58.7	62.2	106	70-131	
Bromomethane	ug/kg	58.7	46.6	79	64-136	
Carbon tetrachloride	ug/kg	58.7	40.7	69	70-154	LO
Chlorobenzene	ug/kg	58.7	55.5	95	70-135	
Chloroethane	ug/kg	58.7	66.6	114	68-151	
Chloroform	ug/kg	58.7	47.4	81	70-130	
Chloromethane	ug/kg	58.7	73.6	125	70-132	
cis-1,2-Dichloroethene	ug/kg	58.7	47.9	82	70-140	
cis-1,3-Dichloropropene	ug/kg	58.7	55.2	94	70-137	
Dibromochloromethane	ug/kg	58.7	54.1	92	70-130	
Dibromomethane	ug/kg	58.7	54.9	93	70-136	
Dichlorodifluoromethane	ug/kg	58.7	61.6	105	36-148	
Diisopropyl ether	ug/kg	58.7	52.7	90	70-139	
Ethylbenzene	ug/kg	58.7	56.2	96	70-137	
Hexachloro-1,3-butadiene	ug/kg	58.7	53.9	92	70-145	
Isopropylbenzene (Cumene)	ug/kg	58.7	58.1	99	70-141	
m&p-Xylene	ug/kg	117	117	100	70-140	
Methyl-tert-butyl ether	ug/kg	58.7	50.3	86	45-150	
Methylene Chloride	ug/kg	58.7	53.4	91	70-133	
n-Butylbenzene	ug/kg	58.7	57.4	98	65-155	
n-Propylbenzene	ug/kg	58.7	54.2	92	70-148	
Naphthalene	ug/kg	58.7	59.4	101	70-148	
o-Xylene	ug/kg	58.7	58.0	99	70-141	
p-Isopropyltoluene	ug/kg	58.7	56.5	96	70-148	
sec-Butylbenzene	ug/kg	58.7	55.3	94	70-145	
Styrene	ug/kg	58.7	60.0	102	70-138	
tert-Butylbenzene	ug/kg	58.7	54.6	93	70-143	
Tetrachloroethene	ug/kg	58.7	52.9	90	70-140	
Toluene	ug/kg	58.7	56.6	96	70-130	
trans-1,2-Dichloroethene	ug/kg	58.7	48.6	83	70-136	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	58.7	60.8	104	70-138	
Trichloroethene	ug/kg	58.7	48.4	83	70-132	
Trichlorofluoromethane	ug/kg	58.7	62.1	106	69-134	
Vinyl acetate	ug/kg	117	139	118	24-161	
Vinyl chloride	ug/kg	58.7	61.4	105	55-140	
Xylene (Total)	ug/kg	176	175	99	70-141	
1,2-Dichloroethane-d4 (S)	%			109	70-132	
4-Bromofluorobenzene (S)	%			107	70-130	
Dibromofluoromethane (S)	%			91	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 862095

Parameter	Units	92136638001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	<2.0	65.6	54.6	83	49-180	
Benzene	ug/kg	<1.8	65.6	51.3	78	50-166	
Chlorobenzene	ug/kg	<2.1	65.6	64.5	98	43-169	
Toluene	ug/kg	<2.0	65.6	61.6	94	52-163	
Trichloroethene	ug/kg	<2.4	65.6	61.1	93	49-167	
1,2-Dichloroethane-d4 (S)	%				103	70-132	
4-Bromofluorobenzene (S)	%				86	70-130	
Dibromofluoromethane (S)	%				101	70-130	
Toluene-d8 (S)	%				92	70-130	

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	71.2J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862094

Parameter	Units	92136136001 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	110	114	26	
4-Bromofluorobenzene (S)	%	91	86	16	
Dibromofluoromethane (S)	%	99	119	40	
Toluene-d8 (S)	%	98	100	24	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20890 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 92135495028, 92135495029, 92135495030, 92135495031, 92135495032, 92135495033, 92135495034, 92135495035, 92135495036, 92135495037, 92135495038

METHOD BLANK: 861905 Matrix: Solid

Associated Lab Samples: 92135495028, 92135495029, 92135495030, 92135495031, 92135495032, 92135495033, 92135495034, 92135495035, 92135495036, 92135495037, 92135495038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,1,1-Trichloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,1,2-Trichloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,1-Dichloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,1-Dichloroethene	ug/kg	ND	6.1	10/29/12 09:51	
1,1-Dichloropropene	ug/kg	ND	6.1	10/29/12 09:51	
1,2,3-Trichlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,2,3-Trichloropropane	ug/kg	ND	6.1	10/29/12 09:51	
1,2,4-Trichlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,2,4-Trimethylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.1	10/29/12 09:51	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.1	10/29/12 09:51	
1,2-Dichlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,2-Dichloroethane	ug/kg	ND	6.1	10/29/12 09:51	
1,2-Dichloropropane	ug/kg	ND	6.1	10/29/12 09:51	
1,3,5-Trimethylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,3-Dichlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
1,3-Dichloropropane	ug/kg	ND	6.1	10/29/12 09:51	
1,4-Dichlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
2,2-Dichloropropane	ug/kg	ND	6.1	10/29/12 09:51	
2-Butanone (MEK)	ug/kg	ND	121	10/29/12 09:51	
2-Chlorotoluene	ug/kg	ND	6.1	10/29/12 09:51	
2-Hexanone	ug/kg	ND	60.7	10/29/12 09:51	
4-Chlorotoluene	ug/kg	ND	6.1	10/29/12 09:51	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	60.7	10/29/12 09:51	
Acetone	ug/kg	ND	121	10/29/12 09:51	
Benzene	ug/kg	ND	6.1	10/29/12 09:51	
Bromobenzene	ug/kg	ND	6.1	10/29/12 09:51	
Bromochloromethane	ug/kg	ND	6.1	10/29/12 09:51	
Bromodichloromethane	ug/kg	ND	6.1	10/29/12 09:51	
Bromoform	ug/kg	ND	6.1	10/29/12 09:51	
Bromomethane	ug/kg	ND	12.1	10/29/12 09:51	
Carbon tetrachloride	ug/kg	ND	6.1	10/29/12 09:51	
Chlorobenzene	ug/kg	ND	6.1	10/29/12 09:51	
Chloroethane	ug/kg	ND	12.1	10/29/12 09:51	
Chloroform	ug/kg	ND	6.1	10/29/12 09:51	
Chloromethane	ug/kg	ND	12.1	10/29/12 09:51	
cis-1,2-Dichloroethene	ug/kg	ND	6.1	10/29/12 09:51	
cis-1,3-Dichloropropene	ug/kg	ND	6.1	10/29/12 09:51	
Dibromochloromethane	ug/kg	ND	6.1	10/29/12 09:51	



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

METHOD BLANK: 861905

Matrix: Solid

Associated Lab Samples: 92135495028, 92135495029, 92135495030, 92135495031, 92135495032, 92135495033, 92135495034, 92135495035, 92135495036, 92135495037, 92135495038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	6.1	10/29/12 09:51	
Dichlorodifluoromethane	ug/kg	ND	12.1	10/29/12 09:51	
Diisopropyl ether	ug/kg	ND	6.1	10/29/12 09:51	
Ethylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
Hexachloro-1,3-butadiene	ug/kg	ND	6.1	10/29/12 09:51	
Isopropylbenzene (Cumene)	ug/kg	ND	6.1	10/29/12 09:51	
m&p-Xylene	ug/kg	ND	12.1	10/29/12 09:51	
Methyl-tert-butyl ether	ug/kg	ND	6.1	10/29/12 09:51	
Methylene Chloride	ug/kg	ND	24.3	10/29/12 09:51	
n-Butylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
n-Propylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
Naphthalene	ug/kg	ND	6.1	10/29/12 09:51	
o-Xylene	ug/kg	ND	6.1	10/29/12 09:51	
p-Isopropyltoluene	ug/kg	ND	6.1	10/29/12 09:51	
sec-Butylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
Styrene	ug/kg	ND	6.1	10/29/12 09:51	
tert-Butylbenzene	ug/kg	ND	6.1	10/29/12 09:51	
Tetrachloroethene	ug/kg	ND	6.1	10/29/12 09:51	
Toluene	ug/kg	ND	6.1	10/29/12 09:51	
trans-1,2-Dichloroethene	ug/kg	ND	6.1	10/29/12 09:51	
trans-1,3-Dichloropropene	ug/kg	ND	6.1	10/29/12 09:51	
Trichloroethene	ug/kg	ND	6.1	10/29/12 09:51	
Trichlorofluoromethane	ug/kg	ND	6.1	10/29/12 09:51	
Vinyl acetate	ug/kg	ND	60.7	10/29/12 09:51	
Vinyl chloride	ug/kg	ND	12.1	10/29/12 09:51	
Xylene (Total)	ug/kg	ND	12.1	10/29/12 09:51	
1,2-Dichloroethane-d4 (S)	%	107	70-132	10/29/12 09:51	
4-Bromofluorobenzene (S)	%	95	70-130	10/29/12 09:51	
Dibromofluoromethane (S)	%	96	70-130	10/29/12 09:51	
Toluene-d8 (S)	%	97	70-130	10/29/12 09:51	

LABORATORY CONTROL SAMPLE: 861906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	68.3	70.1	103	70-131	
1,1,1-Trichloroethane	ug/kg	68.3	70.7	104	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	68.3	65.9	96	70-130	
1,1,2-Trichloroethane	ug/kg	68.3	69.7	102	70-132	
1,1-Dichloroethane	ug/kg	68.3	63.1	92	70-143	
1,1-Dichloroethene	ug/kg	68.3	67.2	98	70-137	
1,1-Dichloropropene	ug/kg	68.3	65.3	96	70-135	
1,2,3-Trichlorobenzene	ug/kg	68.3	73.6	108	69-153	
1,2,3-Trichloropropane	ug/kg	68.3	65.6	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	68.3	74.1	109	55-171	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	68.3	72.2	106	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	68.3	71.9	105	68-141	
1,2-Dibromoethane (EDB)	ug/kg	68.3	71.5	105	70-130	
1,2-Dichlorobenzene	ug/kg	68.3	68.8	101	70-140	
1,2-Dichloroethane	ug/kg	68.3	66.8	98	70-137	
1,2-Dichloropropane	ug/kg	68.3	67.8	99	70-133	
1,3,5-Trimethylbenzene	ug/kg	68.3	71.6	105	70-143	
1,3-Dichlorobenzene	ug/kg	68.3	69.3	101	70-144	
1,3-Dichloropropane	ug/kg	68.3	69.8	102	70-132	
1,4-Dichlorobenzene	ug/kg	68.3	69.5	102	70-142	
2,2-Dichloropropane	ug/kg	68.3	68.4	100	68-152	
2-Butanone (MEK)	ug/kg	137	124J	91	70-149	
2-Chlorotoluene	ug/kg	68.3	72.1	106	70-141	
2-Hexanone	ug/kg	137	144	105	70-149	
4-Chlorotoluene	ug/kg	68.3	70.2	103	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	137	145	106	70-153	
Acetone	ug/kg	137	127J	93	70-157	
Benzene	ug/kg	68.3	69.3	102	70-130	
Bromobenzene	ug/kg	68.3	72.1	106	70-141	
Bromochloromethane	ug/kg	68.3	63.5	93	70-149	
Bromodichloromethane	ug/kg	68.3	69.4	102	70-130	
Bromoform	ug/kg	68.3	73.9	108	70-131	
Bromomethane	ug/kg	68.3	46.0	67	64-136	
Carbon tetrachloride	ug/kg	68.3	71.4	105	70-154	
Chlorobenzene	ug/kg	68.3	68.4	100	70-135	
Chloroethane	ug/kg	68.3	68.8	101	68-151	
Chloroform	ug/kg	68.3	67.2	98	70-130	
Chloromethane	ug/kg	68.3	71.5	105	70-132	
cis-1,2-Dichloroethene	ug/kg	68.3	63.1	92	70-140	
cis-1,3-Dichloropropene	ug/kg	68.3	73.7	108	70-137	
Dibromochloromethane	ug/kg	68.3	74.4	109	70-130	
Dibromomethane	ug/kg	68.3	64.3	94	70-136	
Dichlorodifluoromethane	ug/kg	68.3	61.5	90	36-148	
Diisopropyl ether	ug/kg	68.3	66.0	97	70-139	
Ethylbenzene	ug/kg	68.3	69.5	102	70-137	
Hexachloro-1,3-butadiene	ug/kg	68.3	72.1	106	70-145	
Isopropylbenzene (Cumene)	ug/kg	68.3	70.8	104	70-141	
m&p-Xylene	ug/kg	137	142	104	70-140	
Methyl-tert-butyl ether	ug/kg	68.3	69.5	102	45-150	
Methylene Chloride	ug/kg	68.3	62.1	91	70-133	
n-Butylbenzene	ug/kg	68.3	74.7	109	65-155	
n-Propylbenzene	ug/kg	68.3	71.2	104	70-148	
Naphthalene	ug/kg	68.3	69.6	102	70-148	
o-Xylene	ug/kg	68.3	71.2	104	70-141	
p-Isopropyltoluene	ug/kg	68.3	72.9	107	70-148	
sec-Butylbenzene	ug/kg	68.3	72.1	106	70-145	
Styrene	ug/kg	68.3	70.1	103	70-138	
tert-Butylbenzene	ug/kg	68.3	70.8	104	70-143	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 861906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	68.3	70.5	103	70-140	
Toluene	ug/kg	68.3	66.4	97	70-130	
trans-1,2-Dichloroethene	ug/kg	68.3	64.1	94	70-136	
trans-1,3-Dichloropropene	ug/kg	68.3	73.8	108	70-138	
Trichloroethene	ug/kg	68.3	69.0	101	70-132	
Trichlorofluoromethane	ug/kg	68.3	75.6	111	69-134	
Vinyl acetate	ug/kg	137	178	130	24-161	
Vinyl chloride	ug/kg	68.3	63.5	93	55-140	
Xylene (Total)	ug/kg	205	213	104	70-141	
1,2-Dichloroethane-d4 (S)	%			102	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 862335

Parameter	Units	92135495030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	47.9	48.8	102	49-180	
Benzene	ug/kg	ND	47.9	48.9	102	50-166	
Chlorobenzene	ug/kg	ND	47.9	57.8	121	43-169	
Toluene	ug/kg	ND	47.9	62.1	130	52-163	
Trichloroethene	ug/kg	ND	47.9	51.6	108	49-167	
1,2-Dichloroethane-d4 (S)	%				118	70-132	
4-Bromofluorobenzene (S)	%				97	70-130	
Dibromofluoromethane (S)	%				97	70-130	
Toluene-d8 (S)	%				107	70-130	

SAMPLE DUPLICATE: 862334

Parameter	Units	92135495029 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862334

Parameter	Units	92135495029 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862334

Parameter	Units	92135495029 Result	Dup Result	RPD	Qualifiers
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	102	93	7	
4-Bromofluorobenzene (S)	%	91	93	4	
Dibromofluoromethane (S)	%	91	91	2	
Toluene-d8 (S)	%	99	97	1	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20898

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 92135495039

METHOD BLANK: 862088

Matrix: Solid

Associated Lab Samples: 92135495039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,1,1-Trichloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,1,2-Trichloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,1-Dichloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,1-Dichloroethene	ug/kg	ND	6.5	10/29/12 22:29	
1,1-Dichloropropene	ug/kg	ND	6.5	10/29/12 22:29	
1,2,3-Trichlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,2,3-Trichloropropane	ug/kg	ND	6.5	10/29/12 22:29	
1,2,4-Trichlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,2,4-Trimethylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.5	10/29/12 22:29	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.5	10/29/12 22:29	
1,2-Dichlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,2-Dichloroethane	ug/kg	ND	6.5	10/29/12 22:29	
1,2-Dichloropropane	ug/kg	ND	6.5	10/29/12 22:29	
1,3,5-Trimethylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,3-Dichlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
1,3-Dichloropropane	ug/kg	ND	6.5	10/29/12 22:29	
1,4-Dichlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
2,2-Dichloropropane	ug/kg	ND	6.5	10/29/12 22:29	
2-Butanone (MEK)	ug/kg	ND	131	10/29/12 22:29	
2-Chlorotoluene	ug/kg	ND	6.5	10/29/12 22:29	
2-Hexanone	ug/kg	ND	65.4	10/29/12 22:29	
4-Chlorotoluene	ug/kg	ND	6.5	10/29/12 22:29	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	65.4	10/29/12 22:29	
Acetone	ug/kg	ND	131	10/29/12 22:29	
Benzene	ug/kg	ND	6.5	10/29/12 22:29	
Bromobenzene	ug/kg	ND	6.5	10/29/12 22:29	
Bromochloromethane	ug/kg	ND	6.5	10/29/12 22:29	
Bromodichloromethane	ug/kg	ND	6.5	10/29/12 22:29	
Bromoform	ug/kg	ND	6.5	10/29/12 22:29	
Bromomethane	ug/kg	ND	13.1	10/29/12 22:29	
Carbon tetrachloride	ug/kg	ND	6.5	10/29/12 22:29	
Chlorobenzene	ug/kg	ND	6.5	10/29/12 22:29	
Chloroethane	ug/kg	ND	13.1	10/29/12 22:29	
Chloroform	ug/kg	ND	6.5	10/29/12 22:29	
Chloromethane	ug/kg	ND	13.1	10/29/12 22:29	
cis-1,2-Dichloroethene	ug/kg	ND	6.5	10/29/12 22:29	
cis-1,3-Dichloropropene	ug/kg	ND	6.5	10/29/12 22:29	
Dibromochloromethane	ug/kg	ND	6.5	10/29/12 22:29	
Dibromomethane	ug/kg	ND	6.5	10/29/12 22:29	
Dichlorodifluoromethane	ug/kg	ND	13.1	10/29/12 22:29	

Date: 11/01/2012 04:51 PM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 862088

Matrix: Solid

Associated Lab Samples: 92135495039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.5	10/29/12 22:29	
Ethylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
Hexachloro-1,3-butadiene	ug/kg	ND	6.5	10/29/12 22:29	
Isopropylbenzene (Cumene)	ug/kg	ND	6.5	10/29/12 22:29	
m&p-Xylene	ug/kg	ND	13.1	10/29/12 22:29	
Methyl-tert-butyl ether	ug/kg	ND	6.5	10/29/12 22:29	
Methylene Chloride	ug/kg	ND	26.2	10/29/12 22:29	
n-Butylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
n-Propylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
Naphthalene	ug/kg	ND	6.5	10/29/12 22:29	
o-Xylene	ug/kg	ND	6.5	10/29/12 22:29	
p-Isopropyltoluene	ug/kg	ND	6.5	10/29/12 22:29	
sec-Butylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
Styrene	ug/kg	ND	6.5	10/29/12 22:29	
tert-Butylbenzene	ug/kg	ND	6.5	10/29/12 22:29	
Tetrachloroethene	ug/kg	ND	6.5	10/29/12 22:29	
Toluene	ug/kg	ND	6.5	10/29/12 22:29	
trans-1,2-Dichloroethene	ug/kg	ND	6.5	10/29/12 22:29	
trans-1,3-Dichloropropene	ug/kg	ND	6.5	10/29/12 22:29	
Trichloroethene	ug/kg	ND	6.5	10/29/12 22:29	
Trichlorofluoromethane	ug/kg	ND	6.5	10/29/12 22:29	
Vinyl acetate	ug/kg	ND	65.4	10/29/12 22:29	
Vinyl chloride	ug/kg	ND	13.1	10/29/12 22:29	
Xylene (Total)	ug/kg	ND	13.1	10/29/12 22:29	
1,2-Dichloroethane-d4 (S)	%	99	70-132	10/29/12 22:29	
4-Bromofluorobenzene (S)	%	103	70-130	10/29/12 22:29	
Dibromofluoromethane (S)	%	108	70-130	10/29/12 22:29	
Toluene-d8 (S)	%	106	70-130	10/29/12 22:29	

LABORATORY CONTROL SAMPLE: 862089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	58.7	61.9	105	70-131	
1,1,1-Trichloroethane	ug/kg	58.7	54.7	93	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	58.7	58.3	99	70-130	
1,1,2-Trichloroethane	ug/kg	58.7	64.2	109	70-132	
1,1-Dichloroethane	ug/kg	58.7	50.0	85	70-143	
1,1-Dichloroethene	ug/kg	58.7	51.1	87	70-137	
1,1-Dichloropropene	ug/kg	58.7	45.8	78	70-135	
1,2,3-Trichlorobenzene	ug/kg	58.7	58.8	100	69-153	
1,2,3-Trichloropropane	ug/kg	58.7	57.3	98	70-130	
1,2,4-Trichlorobenzene	ug/kg	58.7	54.4	93	55-171	
1,2,4-Trimethylbenzene	ug/kg	58.7	56.5	96	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	58.7	57.9	99	68-141	
1,2-Dibromoethane (EDB)	ug/kg	58.7	60.8	104	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	58.7	56.4	96	70-140	
1,2-Dichloroethane	ug/kg	58.7	54.6	93	70-137	
1,2-Dichloropropane	ug/kg	58.7	58.5	100	70-133	
1,3,5-Trimethylbenzene	ug/kg	58.7	56.1	96	70-143	
1,3-Dichlorobenzene	ug/kg	58.7	54.2	92	70-144	
1,3-Dichloropropane	ug/kg	58.7	59.1	101	70-132	
1,4-Dichlorobenzene	ug/kg	58.7	54.8	93	70-142	
2,2-Dichloropropane	ug/kg	58.7	43.5	74	68-152	
2-Butanone (MEK)	ug/kg	117	85.6J	73	70-149	
2-Chlorotoluene	ug/kg	58.7	55.4	94	70-141	
2-Hexanone	ug/kg	117	120	102	70-149	
4-Chlorotoluene	ug/kg	58.7	55.2	94	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	117	123	105	70-153	
Acetone	ug/kg	117	115J	98	70-157	
Benzene	ug/kg	58.7	56.9	97	70-130	
Bromobenzene	ug/kg	58.7	57.8	99	70-141	
Bromochloromethane	ug/kg	58.7	50.4	86	70-149	
Bromodichloromethane	ug/kg	58.7	57.4	98	70-130	
Bromoform	ug/kg	58.7	66.1	113	70-131	
Bromomethane	ug/kg	58.7	37.3	64	64-136	
Carbon tetrachloride	ug/kg	58.7	52.8	90	70-154	
Chlorobenzene	ug/kg	58.7	57.2	98	70-135	
Chloroethane	ug/kg	58.7	57.7	98	68-151	
Chloroform	ug/kg	58.7	51.2	87	70-130	
Chloromethane	ug/kg	58.7	67.5	115	70-132	
cis-1,2-Dichloroethene	ug/kg	58.7	48.4	83	70-140	
cis-1,3-Dichloropropene	ug/kg	58.7	57.6	98	70-137	
Dibromochloromethane	ug/kg	58.7	62.2	106	70-130	
Dibromomethane	ug/kg	58.7	52.5	89	70-136	
Dichlorodifluoromethane	ug/kg	58.7	49.0	83	36-148	
Diisopropyl ether	ug/kg	58.7	54.6	93	70-139	
Ethylbenzene	ug/kg	58.7	56.6	97	70-137	
Hexachloro-1,3-butadiene	ug/kg	58.7	53.7	92	70-145	
Isopropylbenzene (Cumene)	ug/kg	58.7	57.5	98	70-141	
m&p-Xylene	ug/kg	117	114	97	70-140	
Methyl-tert-butyl ether	ug/kg	58.7	51.0	87	45-150	
Methylene Chloride	ug/kg	58.7	49.7	85	70-133	
n-Butylbenzene	ug/kg	58.7	53.6	91	65-155	
n-Propylbenzene	ug/kg	58.7	54.7	93	70-148	
Naphthalene	ug/kg	58.7	56.2	96	70-148	
o-Xylene	ug/kg	58.7	56.1	96	70-141	
p-Isopropyltoluene	ug/kg	58.7	54.7	93	70-148	
sec-Butylbenzene	ug/kg	58.7	55.8	95	70-145	
Styrene	ug/kg	58.7	59.2	101	70-138	
tert-Butylbenzene	ug/kg	58.7	55.6	95	70-143	
Tetrachloroethene	ug/kg	58.7	55.1	94	70-140	
Toluene	ug/kg	58.7	58.4	99	70-130	
trans-1,2-Dichloroethene	ug/kg	58.7	45.2	77	70-136	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	58.7	62.0	106	70-138	
Trichloroethene	ug/kg	58.7	58.6	100	70-132	
Trichlorofluoromethane	ug/kg	58.7	56.5	96	69-134	
Vinyl acetate	ug/kg	117	38.2J	33	24-161	
Vinyl chloride	ug/kg	58.7	48.8	83	55-140	
Xylene (Total)	ug/kg	176	170	97	70-141	
1,2-Dichloroethane-d4 (S)	%			98	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			87	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 862355

Parameter	Units	92135516023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	49.4	25.9	52	49-180	
Benzene	ug/kg	ND	49.4	23.8	48	50-166	M0
Chlorobenzene	ug/kg	ND	49.4	32.1	65	43-169	
Toluene	ug/kg	ND	49.4	28.5	58	52-163	
Trichloroethene	ug/kg	ND	49.4	27.8	56	49-167	
1,2-Dichloroethane-d4 (S)	%				102	70-132	
4-Bromofluorobenzene (S)	%				94	70-130	
Dibromofluoromethane (S)	%				121	70-130	
Toluene-d8 (S)	%				94	70-130	

SAMPLE DUPLICATE: 862354

Parameter	Units	92135516022 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862354

Parameter	Units	92135516022 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	33.9J	17.2J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 862354

Parameter	Units	92135516022 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	82	105	21	
4-Bromofluorobenzene (S)	%	94	90	7	
Dibromofluoromethane (S)	%	87	95	5	
Toluene-d8 (S)	%	96	100	0	



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 862483

Matrix: Solid

Associated Lab Samples: 92135495040, 92135495041, 92135495042, 92135495043, 92135495044, 92135495045, 92135495046, 92135495047, 92135495048, 92135495049, 92135495050, 92135495051, 92135495052, 92135495053

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.9	10/30/12 13:36	
Dichlorodifluoromethane	ug/kg	ND	11.8	10/30/12 13:36	
Diisopropyl ether	ug/kg	ND	5.9	10/30/12 13:36	
Ethylbenzene	ug/kg	ND	5.9	10/30/12 13:36	
Hexachloro-1,3-butadiene	ug/kg	ND	5.9	10/30/12 13:36	
Isopropylbenzene (Cumene)	ug/kg	ND	5.9	10/30/12 13:36	
m&p-Xylene	ug/kg	ND	11.8	10/30/12 13:36	
Methyl-tert-butyl ether	ug/kg	ND	5.9	10/30/12 13:36	
Methylene Chloride	ug/kg	ND	23.5	10/30/12 13:36	
n-Butylbenzene	ug/kg	ND	5.9	10/30/12 13:36	
n-Propylbenzene	ug/kg	ND	5.9	10/30/12 13:36	
Naphthalene	ug/kg	ND	5.9	10/30/12 13:36	
o-Xylene	ug/kg	ND	5.9	10/30/12 13:36	
p-Isopropyltoluene	ug/kg	ND	5.9	10/30/12 13:36	
sec-Butylbenzene	ug/kg	ND	5.9	10/30/12 13:36	
Styrene	ug/kg	ND	5.9	10/30/12 13:36	
tert-Butylbenzene	ug/kg	ND	5.9	10/30/12 13:36	
Tetrachloroethene	ug/kg	ND	5.9	10/30/12 13:36	
Toluene	ug/kg	ND	5.9	10/30/12 13:36	
trans-1,2-Dichloroethene	ug/kg	ND	5.9	10/30/12 13:36	
trans-1,3-Dichloropropene	ug/kg	ND	5.9	10/30/12 13:36	
Trichloroethene	ug/kg	ND	5.9	10/30/12 13:36	
Trichlorofluoromethane	ug/kg	ND	5.9	10/30/12 13:36	
Vinyl acetate	ug/kg	ND	58.8	10/30/12 13:36	
Vinyl chloride	ug/kg	ND	11.8	10/30/12 13:36	
Xylene (Total)	ug/kg	ND	11.8	10/30/12 13:36	
1,2-Dichloroethane-d4 (S)	%	92	70-132	10/30/12 13:36	
4-Bromofluorobenzene (S)	%	94	70-130	10/30/12 13:36	
Dibromofluoromethane (S)	%	106	70-130	10/30/12 13:36	
Toluene-d8 (S)	%	101	70-130	10/30/12 13:36	

LABORATORY CONTROL SAMPLE: 862484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	63.9	64.6	101	70-131	
1,1,1-Trichloroethane	ug/kg	63.9	71.2	111	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	63.9	60.7	95	70-130	
1,1,2-Trichloroethane	ug/kg	63.9	62.3	97	70-132	
1,1-Dichloroethane	ug/kg	63.9	51.4	80	70-143	
1,1-Dichloroethene	ug/kg	63.9	62.7	98	70-137	
1,1-Dichloropropene	ug/kg	63.9	66.4	104	70-135	
1,2,3-Trichlorobenzene	ug/kg	63.9	70.2	110	69-153	
1,2,3-Trichloropropane	ug/kg	63.9	61.6	96	70-130	
1,2,4-Trichlorobenzene	ug/kg	63.9	70.7	111	55-171	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	63.9	69.9	109	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	63.9	66.7	104	68-141	
1,2-Dibromoethane (EDB)	ug/kg	63.9	63.4	99	70-130	
1,2-Dichlorobenzene	ug/kg	63.9	68.3	107	70-140	
1,2-Dichloroethane	ug/kg	63.9	58.7	92	70-137	
1,2-Dichloropropane	ug/kg	63.9	62.1	97	70-133	
1,3,5-Trimethylbenzene	ug/kg	63.9	70.7	111	70-143	
1,3-Dichlorobenzene	ug/kg	63.9	66.3	104	70-144	
1,3-Dichloropropane	ug/kg	63.9	64.4	101	70-132	
1,4-Dichlorobenzene	ug/kg	63.9	67.3	105	70-142	
2,2-Dichloropropane	ug/kg	63.9	63.1	99	68-152	
2-Butanone (MEK)	ug/kg	128	123J	96	70-149	
2-Chlorotoluene	ug/kg	63.9	69.6	109	70-141	
2-Hexanone	ug/kg	128	136	107	70-149	
4-Chlorotoluene	ug/kg	63.9	68.6	107	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	128	124	97	70-153	
Acetone	ug/kg	128	125J	97	70-157	
Benzene	ug/kg	63.9	63.4	99	70-130	
Bromobenzene	ug/kg	63.9	68.8	108	70-141	
Bromochloromethane	ug/kg	63.9	67.7	106	70-149	
Bromodichloromethane	ug/kg	63.9	62.1	97	70-130	
Bromoform	ug/kg	63.9	65.4	102	70-131	
Bromomethane	ug/kg	63.9	86.8	136	64-136	F3
Carbon tetrachloride	ug/kg	63.9	67.8	106	70-154	
Chlorobenzene	ug/kg	63.9	64.5	101	70-135	
Chloroethane	ug/kg	63.9	75.4	118	68-151	
Chloroform	ug/kg	63.9	71.4	112	70-130	
Chloromethane	ug/kg	63.9	75.7	118	70-132	
cis-1,2-Dichloroethene	ug/kg	63.9	61.2	96	70-140	
cis-1,3-Dichloropropene	ug/kg	63.9	66.4	104	70-137	
Dibromochloromethane	ug/kg	63.9	65.0	102	70-130	
Dibromomethane	ug/kg	63.9	59.0	92	70-136	
Dichlorodifluoromethane	ug/kg	63.9	75.5	118	36-148	
Diisopropyl ether	ug/kg	63.9	59.4	93	70-139	
Ethylbenzene	ug/kg	63.9	67.1	105	70-137	
Hexachloro-1,3-butadiene	ug/kg	63.9	70.2	110	70-145	
Isopropylbenzene (Cumene)	ug/kg	63.9	66.1	103	70-141	
m&p-Xylene	ug/kg	128	136	106	70-140	
Methyl-tert-butyl ether	ug/kg	63.9	61.3	96	45-150	
Methylene Chloride	ug/kg	63.9	60.6	95	70-133	
n-Butylbenzene	ug/kg	63.9	70.6	110	65-155	
n-Propylbenzene	ug/kg	63.9	68.1	106	70-148	
Naphthalene	ug/kg	63.9	76.9	120	70-148	
o-Xylene	ug/kg	63.9	66.4	104	70-141	
p-Isopropyltoluene	ug/kg	63.9	74.0	116	70-148	
sec-Butylbenzene	ug/kg	63.9	71.4	112	70-145	
Styrene	ug/kg	63.9	71.5	112	70-138	
tert-Butylbenzene	ug/kg	63.9	71.8	112	70-143	



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	63.9	63.0	99	70-140	
Toluene	ug/kg	63.9	62.7	98	70-130	
trans-1,2-Dichloroethene	ug/kg	63.9	58.4	91	70-136	
trans-1,3-Dichloropropene	ug/kg	63.9	64.5	101	70-138	
Trichloroethene	ug/kg	63.9	61.5	96	70-132	
Trichlorofluoromethane	ug/kg	63.9	78.0	122	69-134	
Vinyl acetate	ug/kg	128	105	82	24-161	
Vinyl chloride	ug/kg	63.9	66.4	104	55-140	
Xylene (Total)	ug/kg	192	202	105	70-141	
1,2-Dichloroethane-d4 (S)	%			90	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 863213

Parameter	Units	92135495041 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	49.8	58.2	117	49-180	
Benzene	ug/kg	ND	49.8	53.6	108	50-166	
Chlorobenzene	ug/kg	ND	49.8	63.2	127	43-169	
Toluene	ug/kg	ND	49.8	61.0	122	52-163	
Trichloroethene	ug/kg	ND	49.8	59.6	120	49-167	
1,2-Dichloroethane-d4 (S)	%				110	70-132	
4-Bromofluorobenzene (S)	%				90	70-130	
Dibromofluoromethane (S)	%				98	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 863212

Parameter	Units	92135495040 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 863212

Parameter	Units	92135495040 Result	Dup Result	RPD	Qualifiers
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	38.1J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

SAMPLE DUPLICATE: 863212

Parameter	Units	92135495040 Result	Dup Result	RPD	Qualifiers
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	100	104	7	
4-Bromofluorobenzene (S)	%	83	85	5	
Dibromofluoromethane (S)	%	106	106	3	
Toluene-d8 (S)	%	100	102	5	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20902 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92135495054, 92135495055, 92135495056, 92135495057, 92135495058, 92135495059

METHOD BLANK: 862485 Matrix: Solid

Associated Lab Samples: 92135495054, 92135495055, 92135495056, 92135495057, 92135495058, 92135495059

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,1,1-Trichloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,1,2-Trichloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,1-Dichloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,1-Dichloroethene	ug/kg	ND	6.7	10/30/12 13:17	
1,1-Dichloropropene	ug/kg	ND	6.7	10/30/12 13:17	
1,2,3-Trichlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,2,3-Trichloropropane	ug/kg	ND	6.7	10/30/12 13:17	
1,2,4-Trichlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,2,4-Trimethylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.7	10/30/12 13:17	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.7	10/30/12 13:17	
1,2-Dichlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,2-Dichloroethane	ug/kg	ND	6.7	10/30/12 13:17	
1,2-Dichloropropane	ug/kg	ND	6.7	10/30/12 13:17	
1,3,5-Trimethylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,3-Dichlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
1,3-Dichloropropane	ug/kg	ND	6.7	10/30/12 13:17	
1,4-Dichlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
2,2-Dichloropropane	ug/kg	ND	6.7	10/30/12 13:17	
2-Butanone (MEK)	ug/kg	ND	133	10/30/12 13:17	
2-Chlorotoluene	ug/kg	ND	6.7	10/30/12 13:17	
2-Hexanone	ug/kg	ND	66.7	10/30/12 13:17	
4-Chlorotoluene	ug/kg	ND	6.7	10/30/12 13:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	66.7	10/30/12 13:17	
Acetone	ug/kg	ND	133	10/30/12 13:17	
Benzene	ug/kg	ND	6.7	10/30/12 13:17	
Bromobenzene	ug/kg	ND	6.7	10/30/12 13:17	
Bromochloromethane	ug/kg	ND	6.7	10/30/12 13:17	
Bromodichloromethane	ug/kg	ND	6.7	10/30/12 13:17	
Bromoform	ug/kg	ND	6.7	10/30/12 13:17	
Bromomethane	ug/kg	ND	13.3	10/30/12 13:17	
Carbon tetrachloride	ug/kg	ND	6.7	10/30/12 13:17	
Chlorobenzene	ug/kg	ND	6.7	10/30/12 13:17	
Chloroethane	ug/kg	ND	13.3	10/30/12 13:17	
Chloroform	ug/kg	ND	6.7	10/30/12 13:17	
Chloromethane	ug/kg	ND	13.3	10/30/12 13:17	
cis-1,2-Dichloroethene	ug/kg	ND	6.7	10/30/12 13:17	
cis-1,3-Dichloropropene	ug/kg	ND	6.7	10/30/12 13:17	
Dibromochloromethane	ug/kg	ND	6.7	10/30/12 13:17	
Dibromomethane	ug/kg	ND	6.7	10/30/12 13:17	
Dichlorodifluoromethane	ug/kg	ND	13.3	10/30/12 13:17	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 862485

Matrix: Solid

Associated Lab Samples: 92135495054, 92135495055, 92135495056, 92135495057, 92135495058, 92135495059

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/kg	ND	6.7	10/30/12 13:17	
Ethylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
Hexachloro-1,3-butadiene	ug/kg	ND	6.7	10/30/12 13:17	
Isopropylbenzene (Cumene)	ug/kg	ND	6.7	10/30/12 13:17	
m&p-Xylene	ug/kg	ND	13.3	10/30/12 13:17	
Methyl-tert-butyl ether	ug/kg	ND	6.7	10/30/12 13:17	
Methylene Chloride	ug/kg	ND	26.7	10/30/12 13:17	
n-Butylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
n-Propylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
Naphthalene	ug/kg	ND	6.7	10/30/12 13:17	
o-Xylene	ug/kg	ND	6.7	10/30/12 13:17	
p-Isopropyltoluene	ug/kg	ND	6.7	10/30/12 13:17	
sec-Butylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
Styrene	ug/kg	ND	6.7	10/30/12 13:17	
tert-Butylbenzene	ug/kg	ND	6.7	10/30/12 13:17	
Tetrachloroethene	ug/kg	ND	6.7	10/30/12 13:17	
Toluene	ug/kg	ND	6.7	10/30/12 13:17	
trans-1,2-Dichloroethene	ug/kg	ND	6.7	10/30/12 13:17	
trans-1,3-Dichloropropene	ug/kg	ND	6.7	10/30/12 13:17	
Trichloroethene	ug/kg	ND	6.7	10/30/12 13:17	
Trichlorofluoromethane	ug/kg	ND	6.7	10/30/12 13:17	
Vinyl acetate	ug/kg	ND	66.7	10/30/12 13:17	
Vinyl chloride	ug/kg	ND	13.3	10/30/12 13:17	
Xylene (Total)	ug/kg	ND	13.3	10/30/12 13:17	
1,2-Dichloroethane-d4 (S)	%	101	70-132	10/30/12 13:17	
4-Bromofluorobenzene (S)	%	98	70-130	10/30/12 13:17	
Dibromofluoromethane (S)	%	111	70-130	10/30/12 13:17	
Toluene-d8 (S)	%	97	70-130	10/30/12 13:17	

LABORATORY CONTROL SAMPLE: 862486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	63.3	61.4	97	70-131	
1,1,1-Trichloroethane	ug/kg	63.3	54.7	86	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	63.3	58.9	93	70-130	
1,1,2-Trichloroethane	ug/kg	63.3	60.5	96	70-132	
1,1-Dichloroethane	ug/kg	63.3	57.8	91	70-143	
1,1-Dichloroethene	ug/kg	63.3	62.6	99	70-137	
1,1-Dichloropropene	ug/kg	63.3	53.7	85	70-135	
1,2,3-Trichlorobenzene	ug/kg	63.3	65.5	103	69-153	
1,2,3-Trichloropropane	ug/kg	63.3	60.4	95	70-130	
1,2,4-Trichlorobenzene	ug/kg	63.3	66.4	105	55-171	
1,2,4-Trimethylbenzene	ug/kg	63.3	65.4	103	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	63.3	61.6	97	68-141	
1,2-Dibromoethane (EDB)	ug/kg	63.3	62.0	98	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/kg	63.3	63.2	100	70-140	
1,2-Dichloroethane	ug/kg	63.3	59.4	94	70-137	
1,2-Dichloropropane	ug/kg	63.3	60.3	95	70-133	
1,3,5-Trimethylbenzene	ug/kg	63.3	64.9	103	70-143	
1,3-Dichlorobenzene	ug/kg	63.3	61.4	97	70-144	
1,3-Dichloropropane	ug/kg	63.3	62.1	98	70-132	
1,4-Dichlorobenzene	ug/kg	63.3	62.0	98	70-142	
2,2-Dichloropropane	ug/kg	63.3	52.9	84	68-152	
2-Butanone (MEK)	ug/kg	127	91.5J	72	70-149	
2-Chlorotoluene	ug/kg	63.3	64.9	102	70-141	
2-Hexanone	ug/kg	127	124	98	70-149	
4-Chlorotoluene	ug/kg	63.3	64.2	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	127	120	95	70-153	
Acetone	ug/kg	127	135	107	70-157	
Benzene	ug/kg	63.3	61.8	98	70-130	
Bromobenzene	ug/kg	63.3	63.9	101	70-141	
Bromochloromethane	ug/kg	63.3	55.9	88	70-149	
Bromodichloromethane	ug/kg	63.3	58.9	93	70-130	
Bromoform	ug/kg	63.3	63.1	100	70-131	
Bromomethane	ug/kg	63.3	79.8	126	64-136 F3	
Carbon tetrachloride	ug/kg	63.3	55.3	87	70-154	
Chlorobenzene	ug/kg	63.3	60.9	96	70-135	
Chloroethane	ug/kg	63.3	67.5	107	68-151	
Chloroform	ug/kg	63.3	55.5	88	70-130	
Chloromethane	ug/kg	63.3	67.5	107	70-132	
cis-1,2-Dichloroethene	ug/kg	63.3	54.4	86	70-140	
cis-1,3-Dichloropropene	ug/kg	63.3	62.7	99	70-137	
Dibromochloromethane	ug/kg	63.3	63.6	100	70-130	
Dibromomethane	ug/kg	63.3	56.5	89	70-136	
Dichlorodifluoromethane	ug/kg	63.3	69.1	109	36-148	
Diisopropyl ether	ug/kg	63.3	56.9	90	70-139	
Ethylbenzene	ug/kg	63.3	63.7	101	70-137	
Hexachloro-1,3-butadiene	ug/kg	63.3	63.3	100	70-145	
Isopropylbenzene (Cumene)	ug/kg	63.3	62.0	98	70-141	
m&p-Xylene	ug/kg	127	131	103	70-140	
Methyl-tert-butyl ether	ug/kg	63.3	65.0	103	45-150	
Methylene Chloride	ug/kg	63.3	65.6	104	70-133	
n-Butylbenzene	ug/kg	63.3	65.4	103	65-155	
n-Propylbenzene	ug/kg	63.3	63.1	100	70-148	
Naphthalene	ug/kg	63.3	71.0	112	70-148	
o-Xylene	ug/kg	63.3	63.2	100	70-141	
p-Isopropyltoluene	ug/kg	63.3	67.6	107	70-148	
sec-Butylbenzene	ug/kg	63.3	66.0	104	70-145	
Styrene	ug/kg	63.3	66.9	106	70-138	
tert-Butylbenzene	ug/kg	63.3	65.3	103	70-143	
Tetrachloroethene	ug/kg	63.3	59.8	95	70-140	
Toluene	ug/kg	63.3	60.3	95	70-130	
trans-1,2-Dichloroethene	ug/kg	63.3	59.9	95	70-136	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 862486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/kg	63.3	62.6	99	70-138	
Trichloroethene	ug/kg	63.3	58.2	92	70-132	
Trichlorofluoromethane	ug/kg	63.3	67.0	106	69-134	
Vinyl acetate	ug/kg	127	106	84	24-161	
Vinyl chloride	ug/kg	63.3	61.3	97	55-140	
Xylene (Total)	ug/kg	190	194	102	70-141	
1,2-Dichloroethane-d4 (S)	%			93	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			81	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 863217

Parameter	Units	92135495057 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	44.7	65.8	147	49-180	
Benzene	ug/kg	ND	44.7	61.8	138	50-166	
Chlorobenzene	ug/kg	ND	44.7	75.2	168	43-169	
Toluene	ug/kg	ND	44.7	72.6	162	52-163	
Trichloroethene	ug/kg	ND	44.7	68.9	154	49-167	
1,2-Dichloroethane-d4 (S)	%				115	70-132	
4-Bromofluorobenzene (S)	%				85	70-130	
Dibromofluoromethane (S)	%				108	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 863216

Parameter	Units	92135495056 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 863216

Parameter	Units	92135495056 Result	Dup Result	RPD	Qualifiers
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 863216

Parameter	Units	92135495056 Result	Dup Result	RPD	Qualifiers
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	108	118	12	
4-Bromofluorobenzene (S)	%	86	94	11	
Dibromofluoromethane (S)	%	94	105	14	
Toluene-d8 (S)	%	101	105	7	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20908 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92135495060, 92135495061, 92135495062, 92135495063, 92135495064, 92135495065, 92135495066, 92135495067, 92135495068

METHOD BLANK: 863474 Matrix: Solid

Associated Lab Samples: 92135495060, 92135495061, 92135495062, 92135495063, 92135495064, 92135495065, 92135495066, 92135495067, 92135495068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,1,1-Trichloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,1,2-Trichloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,1-Dichloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,1-Dichloroethene	ug/kg	ND	6.0	10/31/12 12:30	
1,1-Dichloropropene	ug/kg	ND	6.0	10/31/12 12:30	
1,2,3-Trichlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,2,3-Trichloropropane	ug/kg	ND	6.0	10/31/12 12:30	
1,2,4-Trichlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,2,4-Trimethylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.0	10/31/12 12:30	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.0	10/31/12 12:30	
1,2-Dichlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,2-Dichloroethane	ug/kg	ND	6.0	10/31/12 12:30	
1,2-Dichloropropane	ug/kg	ND	6.0	10/31/12 12:30	
1,3,5-Trimethylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,3-Dichlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
1,3-Dichloropropane	ug/kg	ND	6.0	10/31/12 12:30	
1,4-Dichlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
2,2-Dichloropropane	ug/kg	ND	6.0	10/31/12 12:30	
2-Butanone (MEK)	ug/kg	ND	121	10/31/12 12:30	
2-Chlorotoluene	ug/kg	ND	6.0	10/31/12 12:30	
2-Hexanone	ug/kg	ND	60.4	10/31/12 12:30	
4-Chlorotoluene	ug/kg	ND	6.0	10/31/12 12:30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	60.4	10/31/12 12:30	
Acetone	ug/kg	ND	121	10/31/12 12:30	
Benzene	ug/kg	ND	6.0	10/31/12 12:30	
Bromobenzene	ug/kg	ND	6.0	10/31/12 12:30	
Bromochloromethane	ug/kg	ND	6.0	10/31/12 12:30	
Bromodichloromethane	ug/kg	ND	6.0	10/31/12 12:30	
Bromoform	ug/kg	ND	6.0	10/31/12 12:30	
Bromomethane	ug/kg	ND	12.1	10/31/12 12:30	
Carbon tetrachloride	ug/kg	ND	6.0	10/31/12 12:30	
Chlorobenzene	ug/kg	ND	6.0	10/31/12 12:30	
Chloroethane	ug/kg	ND	12.1	10/31/12 12:30	
Chloroform	ug/kg	ND	6.0	10/31/12 12:30	
Chloromethane	ug/kg	ND	12.1	10/31/12 12:30	
cis-1,2-Dichloroethene	ug/kg	ND	6.0	10/31/12 12:30	
cis-1,3-Dichloropropene	ug/kg	ND	6.0	10/31/12 12:30	
Dibromochloromethane	ug/kg	ND	6.0	10/31/12 12:30	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 863474

Matrix: Solid

Associated Lab Samples: 92135495060, 92135495061, 92135495062, 92135495063, 92135495064, 92135495065, 92135495066, 92135495067, 92135495068

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	6.0	10/31/12 12:30	
Dichlorodifluoromethane	ug/kg	ND	12.1	10/31/12 12:30	
Diisopropyl ether	ug/kg	ND	6.0	10/31/12 12:30	
Ethylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
Hexachloro-1,3-butadiene	ug/kg	ND	6.0	10/31/12 12:30	
Isopropylbenzene (Cumene)	ug/kg	ND	6.0	10/31/12 12:30	
m&p-Xylene	ug/kg	ND	12.1	10/31/12 12:30	
Methyl-tert-butyl ether	ug/kg	ND	6.0	10/31/12 12:30	
Methylene Chloride	ug/kg	ND	24.2	10/31/12 12:30	
n-Butylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
n-Propylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
Naphthalene	ug/kg	ND	6.0	10/31/12 12:30	
o-Xylene	ug/kg	ND	6.0	10/31/12 12:30	
p-Isopropyltoluene	ug/kg	ND	6.0	10/31/12 12:30	
sec-Butylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
Styrene	ug/kg	ND	6.0	10/31/12 12:30	
tert-Butylbenzene	ug/kg	ND	6.0	10/31/12 12:30	
Tetrachloroethene	ug/kg	ND	6.0	10/31/12 12:30	
Toluene	ug/kg	ND	6.0	10/31/12 12:30	
trans-1,2-Dichloroethene	ug/kg	ND	6.0	10/31/12 12:30	
trans-1,3-Dichloropropene	ug/kg	ND	6.0	10/31/12 12:30	
Trichloroethene	ug/kg	ND	6.0	10/31/12 12:30	
Trichlorofluoromethane	ug/kg	ND	6.0	10/31/12 12:30	
Vinyl acetate	ug/kg	ND	60.4	10/31/12 12:30	
Vinyl chloride	ug/kg	ND	12.1	10/31/12 12:30	
Xylene (Total)	ug/kg	ND	12.1	10/31/12 12:30	
1,2-Dichloroethane-d4 (S)	%	102	70-132	10/31/12 12:30	
4-Bromofluorobenzene (S)	%	95	70-130	10/31/12 12:30	
Dibromofluoromethane (S)	%	110	70-130	10/31/12 12:30	
Toluene-d8 (S)	%	100	70-130	10/31/12 12:30	

LABORATORY CONTROL SAMPLE: 863475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	67.9	70.2	103	70-131	
1,1,1-Trichloroethane	ug/kg	67.9	74.2	109	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	67.9	68.0	100	70-130	
1,1,2-Trichloroethane	ug/kg	67.9	70.5	104	70-132	
1,1-Dichloroethane	ug/kg	67.9	70.7	104	70-143	
1,1-Dichloroethene	ug/kg	67.9	73.1	108	70-137	
1,1-Dichloropropene	ug/kg	67.9	71.5	105	70-135	
1,2,3-Trichlorobenzene	ug/kg	67.9	77.9	115	69-153	
1,2,3-Trichloropropane	ug/kg	67.9	72.4	107	70-130	
1,2,4-Trichlorobenzene	ug/kg	67.9	77.0	113	55-171	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 863475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	67.9	72.8	107	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	67.9	73.4	108	68-141	
1,2-Dibromoethane (EDB)	ug/kg	67.9	70.8	104	70-130	
1,2-Dichlorobenzene	ug/kg	67.9	72.5	107	70-140	
1,2-Dichloroethane	ug/kg	67.9	65.7	97	70-137	
1,2-Dichloropropane	ug/kg	67.9	71.8	106	70-133	
1,3,5-Trimethylbenzene	ug/kg	67.9	74.4	110	70-143	
1,3-Dichlorobenzene	ug/kg	67.9	71.2	105	70-144	
1,3-Dichloropropane	ug/kg	67.9	69.9	103	70-132	
1,4-Dichlorobenzene	ug/kg	67.9	70.5	104	70-142	
2,2-Dichloropropane	ug/kg	67.9	67.4	99	68-152	
2-Butanone (MEK)	ug/kg	136	129J	95	70-149	
2-Chlorotoluene	ug/kg	67.9	73.7	108	70-141	
2-Hexanone	ug/kg	136	148	109	70-149	
4-Chlorotoluene	ug/kg	67.9	74.7	110	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	136	152	112	70-153	
Acetone	ug/kg	136	154	114	70-157	
Benzene	ug/kg	67.9	69.2	102	70-130	
Bromobenzene	ug/kg	67.9	72.6	107	70-141	
Bromochloromethane	ug/kg	67.9	75.7	111	70-149	
Bromodichloromethane	ug/kg	67.9	73.8	109	70-130	
Bromoform	ug/kg	67.9	73.2	108	70-131	
Bromomethane	ug/kg	67.9	73.9	109	64-136	
Carbon tetrachloride	ug/kg	67.9	72.2	106	70-154	
Chlorobenzene	ug/kg	67.9	73.0	107	70-135	
Chloroethane	ug/kg	67.9	83.3	123	68-151	
Chloroform	ug/kg	67.9	75.0	110	70-130	
Chloromethane	ug/kg	67.9	86.2	127	70-132	
cis-1,2-Dichloroethene	ug/kg	67.9	72.9	107	70-140	
cis-1,3-Dichloropropene	ug/kg	67.9	75.2	111	70-137	
Dibromochloromethane	ug/kg	67.9	70.2	103	70-130	
Dibromomethane	ug/kg	67.9	70.7	104	70-136	
Dichlorodifluoromethane	ug/kg	67.9	72.9	107	36-148	
Diisopropyl ether	ug/kg	67.9	67.9	100	70-139	
Ethylbenzene	ug/kg	67.9	73.7	108	70-137	
Hexachloro-1,3-butadiene	ug/kg	67.9	77.8	114	70-145	
Isopropylbenzene (Cumene)	ug/kg	67.9	73.4	108	70-141	
m&p-Xylene	ug/kg	136	152	112	70-140	
Methyl-tert-butyl ether	ug/kg	67.9	73.2	108	45-150	
Methylene Chloride	ug/kg	67.9	67.3	99	70-133	
n-Butylbenzene	ug/kg	67.9	72.7	107	65-155	
n-Propylbenzene	ug/kg	67.9	71.9	106	70-148	
Naphthalene	ug/kg	67.9	77.5	114	70-148	
o-Xylene	ug/kg	67.9	75.9	112	70-141	
p-Isopropyltoluene	ug/kg	67.9	75.3	111	70-148	
sec-Butylbenzene	ug/kg	67.9	74.1	109	70-145	
Styrene	ug/kg	67.9	78.1	115	70-138	
tert-Butylbenzene	ug/kg	67.9	73.3	108	70-143	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 863475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	67.9	68.7	101	70-140	
Toluene	ug/kg	67.9	74.1	109	70-130	
trans-1,2-Dichloroethene	ug/kg	67.9	70.0	103	70-136	
trans-1,3-Dichloropropene	ug/kg	67.9	71.2	105	70-138	
Trichloroethene	ug/kg	67.9	69.4	102	70-132	
Trichlorofluoromethane	ug/kg	67.9	82.4	121	69-134	
Vinyl acetate	ug/kg	136	134	99	24-161	
Vinyl chloride	ug/kg	67.9	72.6	107	55-140	
Xylene (Total)	ug/kg	204	228	112	70-141	
1,2-Dichloroethane-d4 (S)	%			100	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			102	70-130	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

QC Batch: MSV/20916 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 92135495069, 92135495070, 92135495071, 92135495072, 92135495073, 92135495074, 92135495075,  
 92135495076, 92135495077, 92135495078, 92135495079, 92135495080, 92135495081, 92135495082,  
 92135495083

METHOD BLANK: 863699 Matrix: Solid

Associated Lab Samples: 92135495069, 92135495070, 92135495071, 92135495072, 92135495073, 92135495074, 92135495075,  
 92135495076, 92135495077, 92135495078, 92135495079, 92135495080, 92135495081, 92135495082,  
 92135495083

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,1,1-Trichloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,1,2-Trichloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,1-Dichloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,1-Dichloroethene	ug/kg	ND	6.3	10/31/12 21:26	
1,1-Dichloropropene	ug/kg	ND	6.3	10/31/12 21:26	
1,2,3-Trichlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,2,3-Trichloropropane	ug/kg	ND	6.3	10/31/12 21:26	
1,2,4-Trichlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,2,4-Trimethylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.3	10/31/12 21:26	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.3	10/31/12 21:26	
1,2-Dichlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,2-Dichloroethane	ug/kg	ND	6.3	10/31/12 21:26	
1,2-Dichloropropane	ug/kg	ND	6.3	10/31/12 21:26	
1,3,5-Trimethylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,3-Dichlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
1,3-Dichloropropane	ug/kg	ND	6.3	10/31/12 21:26	
1,4-Dichlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
2,2-Dichloropropane	ug/kg	ND	6.3	10/31/12 21:26	
2-Butanone (MEK)	ug/kg	ND	127	10/31/12 21:26	
2-Chlorotoluene	ug/kg	ND	6.3	10/31/12 21:26	
2-Hexanone	ug/kg	ND	63.3	10/31/12 21:26	
4-Chlorotoluene	ug/kg	ND	6.3	10/31/12 21:26	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	63.3	10/31/12 21:26	
Acetone	ug/kg	ND	127	10/31/12 21:26	
Benzene	ug/kg	ND	6.3	10/31/12 21:26	
Bromobenzene	ug/kg	ND	6.3	10/31/12 21:26	
Bromochloromethane	ug/kg	ND	6.3	10/31/12 21:26	
Bromodichloromethane	ug/kg	ND	6.3	10/31/12 21:26	
Bromoform	ug/kg	ND	6.3	10/31/12 21:26	
Bromomethane	ug/kg	ND	12.7	10/31/12 21:26	
Carbon tetrachloride	ug/kg	ND	6.3	10/31/12 21:26	
Chlorobenzene	ug/kg	ND	6.3	10/31/12 21:26	
Chloroethane	ug/kg	ND	12.7	10/31/12 21:26	
Chloroform	ug/kg	ND	6.3	10/31/12 21:26	
Chloromethane	ug/kg	ND	12.7	10/31/12 21:26	
cis-1,2-Dichloroethene	ug/kg	ND	6.3	10/31/12 21:26	



### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

METHOD BLANK: 863699

Matrix: Solid

Associated Lab Samples: 92135495069, 92135495070, 92135495071, 92135495072, 92135495073, 92135495074, 92135495075, 92135495076, 92135495077, 92135495078, 92135495079, 92135495080, 92135495081, 92135495082, 92135495083

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	6.3	10/31/12 21:26	
Dibromochloromethane	ug/kg	ND	6.3	10/31/12 21:26	
Dibromomethane	ug/kg	ND	6.3	10/31/12 21:26	
Dichlorodifluoromethane	ug/kg	ND	12.7	10/31/12 21:26	
Diisopropyl ether	ug/kg	ND	6.3	10/31/12 21:26	
Ethylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
Hexachloro-1,3-butadiene	ug/kg	ND	6.3	10/31/12 21:26	
Isopropylbenzene (Cumene)	ug/kg	ND	6.3	10/31/12 21:26	
m&p-Xylene	ug/kg	ND	12.7	10/31/12 21:26	
Methyl-tert-butyl ether	ug/kg	ND	6.3	10/31/12 21:26	
Methylene Chloride	ug/kg	ND	25.3	10/31/12 21:26	
n-Butylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
n-Propylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
Naphthalene	ug/kg	ND	6.3	10/31/12 21:26	
o-Xylene	ug/kg	ND	6.3	10/31/12 21:26	
p-Isopropyltoluene	ug/kg	ND	6.3	10/31/12 21:26	
sec-Butylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
Styrene	ug/kg	ND	6.3	10/31/12 21:26	
tert-Butylbenzene	ug/kg	ND	6.3	10/31/12 21:26	
Tetrachloroethene	ug/kg	ND	6.3	10/31/12 21:26	
Toluene	ug/kg	ND	6.3	10/31/12 21:26	
trans-1,2-Dichloroethene	ug/kg	ND	6.3	10/31/12 21:26	
trans-1,3-Dichloropropene	ug/kg	ND	6.3	10/31/12 21:26	
Trichloroethene	ug/kg	ND	6.3	10/31/12 21:26	
Trichlorofluoromethane	ug/kg	ND	6.3	10/31/12 21:26	
Vinyl acetate	ug/kg	ND	63.3	10/31/12 21:26	
Vinyl chloride	ug/kg	ND	12.7	10/31/12 21:26	
Xylene (Total)	ug/kg	ND	12.7	10/31/12 21:26	
1,2-Dichloroethane-d4 (S)	%	115	70-132	10/31/12 21:26	
4-Bromofluorobenzene (S)	%	91	70-130	10/31/12 21:26	
Dibromofluoromethane (S)	%	103	70-130	10/31/12 21:26	
Toluene-d8 (S)	%	99	70-130	10/31/12 21:26	

LABORATORY CONTROL SAMPLE: 863700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	58.3	59.6	102	70-131	
1,1,1-Trichloroethane	ug/kg	58.3	62.9	108	70-141	
1,1,2,2-Tetrachloroethane	ug/kg	58.3	58.3	100	70-130	
1,1,2-Trichloroethane	ug/kg	58.3	66.0	113	70-132	
1,1-Dichloroethane	ug/kg	58.3	62.3	107	70-143	
1,1-Dichloroethene	ug/kg	58.3	62.1	107	70-137	
1,1-Dichloropropene	ug/kg	58.3	58.5	100	70-135	
1,2,3-Trichlorobenzene	ug/kg	58.3	58.4	100	69-153	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 863700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	58.3	61.4	105	70-130	
1,2,4-Trichlorobenzene	ug/kg	58.3	55.7	96	55-171	
1,2,4-Trimethylbenzene	ug/kg	58.3	56.3	97	70-149	
1,2-Dibromo-3-chloropropane	ug/kg	58.3	65.4	112	68-141	
1,2-Dibromoethane (EDB)	ug/kg	58.3	60.5	104	70-130	
1,2-Dichlorobenzene	ug/kg	58.3	56.5	97	70-140	
1,2-Dichloroethane	ug/kg	58.3	58.7	101	70-137	
1,2-Dichloropropane	ug/kg	58.3	65.4	112	70-133	
1,3,5-Trimethylbenzene	ug/kg	58.3	57.8	99	70-143	
1,3-Dichlorobenzene	ug/kg	58.3	54.8	94	70-144	
1,3-Dichloropropane	ug/kg	58.3	59.9	103	70-132	
1,4-Dichlorobenzene	ug/kg	58.3	55.7	96	70-142	
2,2-Dichloropropane	ug/kg	58.3	51.3	88	68-152	
2-Butanone (MEK)	ug/kg	117	111J	95	70-149	
2-Chlorotoluene	ug/kg	58.3	58.7	101	70-141	
2-Hexanone	ug/kg	117	118	101	70-149	
4-Chlorotoluene	ug/kg	58.3	58.7	101	70-149	
4-Methyl-2-pentanone (MIBK)	ug/kg	117	124	107	70-153	
Acetone	ug/kg	117	135	116	70-157	
Benzene	ug/kg	58.3	64.4	110	70-130	
Bromobenzene	ug/kg	58.3	59.8	103	70-141	
Bromochloromethane	ug/kg	58.3	62.1	107	70-149	
Bromodichloromethane	ug/kg	58.3	60.5	104	70-130	
Bromoform	ug/kg	58.3	61.1	105	70-131	
Bromomethane	ug/kg	58.3	69.3	119	64-136	
Carbon tetrachloride	ug/kg	58.3	63.5	109	70-154	
Chlorobenzene	ug/kg	58.3	60.8	104	70-135	
Chloroethane	ug/kg	58.3	72.6	125	68-151	
Chloroform	ug/kg	58.3	60.9	105	70-130	
Chloromethane	ug/kg	58.3	75.4	129	70-132	
cis-1,2-Dichloroethene	ug/kg	58.3	56.6	97	70-140	
cis-1,3-Dichloropropene	ug/kg	58.3	62.6	107	70-137	
Dibromochloromethane	ug/kg	58.3	62.0	106	70-130	
Dibromomethane	ug/kg	58.3	60.8	104	70-136	
Dichlorodifluoromethane	ug/kg	58.3	69.9	120	36-148	
Diisopropyl ether	ug/kg	58.3	58.8	101	70-139	
Ethylbenzene	ug/kg	58.3	61.3	105	70-137	
Hexachloro-1,3-butadiene	ug/kg	58.3	57.5	99	70-145	
Isopropylbenzene (Cumene)	ug/kg	58.3	58.0	100	70-141	
m&p-Xylene	ug/kg	117	120	103	70-140	
Methyl-tert-butyl ether	ug/kg	58.3	60.8	104	45-150	
Methylene Chloride	ug/kg	58.3	56.6	97	70-133	
n-Butylbenzene	ug/kg	58.3	53.9	93	65-155	
n-Propylbenzene	ug/kg	58.3	56.2	96	70-148	
Naphthalene	ug/kg	58.3	60.2	103	70-148	
o-Xylene	ug/kg	58.3	61.3	105	70-141	
p-Isopropyltoluene	ug/kg	58.3	56.9	98	70-148	
sec-Butylbenzene	ug/kg	58.3	57.6	99	70-145	

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

LABORATORY CONTROL SAMPLE: 863700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/kg	58.3	62.3	107	70-138	
tert-Butylbenzene	ug/kg	58.3	58.8	101	70-143	
Tetrachloroethene	ug/kg	58.3	56.4	97	70-140	
Toluene	ug/kg	58.3	63.8	109	70-130	
trans-1,2-Dichloroethene	ug/kg	58.3	58.9	101	70-136	
trans-1,3-Dichloropropene	ug/kg	58.3	63.0	108	70-138	
Trichloroethene	ug/kg	58.3	60.9	105	70-132	
Trichlorofluoromethane	ug/kg	58.3	71.2	122	69-134	
Vinyl acetate	ug/kg	117	63.8	55	24-161	
Vinyl chloride	ug/kg	58.3	68.0	117	55-140	
Xylene (Total)	ug/kg	175	181	104	70-141	
1,2-Dichloroethane-d4 (S)	%			107	70-132	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 864300

Parameter	Units	92135495070 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/kg	ND	45.3	51.8	115	49-180	
Benzene	ug/kg	ND	45.3	46.8	104	50-166	
Chlorobenzene	ug/kg	ND	45.3	54.7	121	43-169	
Toluene	ug/kg	ND	45.3	55.1	122	52-163	
Trichloroethene	ug/kg	ND	45.3	55.3	122	49-167	
1,2-Dichloroethane-d4 (S)	%				104	70-132	
4-Bromofluorobenzene (S)	%				85	70-130	
Dibromofluoromethane (S)	%				109	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 864299

Parameter	Units	92135495069 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 864299

Parameter	Units	92135495069 Result	Dup Result	RPD	Qualifiers
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	24.6J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		

### QUALITY CONTROL DATA

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

SAMPLE DUPLICATE: 864299

Parameter	Units	92135495069 Result	Dup Result	RPD	Qualifiers
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	105	116		3
4-Bromofluorobenzene (S)	%	91	89		9
Dibromofluoromethane (S)	%	110	104		13
Toluene-d8 (S)	%	98	104		1





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**QUALITY CONTROL DATA**

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

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QC Batch: PMST/5067 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92135495021, 92135495022, 92135495023, 92135495024, 92135495025, 92135495026, 92135495027,  
 92135495028, 92135495029, 92135495030, 92135495031, 92135495032, 92135495033, 92135495034,  
 92135495035, 92135495036, 92135495037

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SAMPLE DUPLICATE: 855988

Parameter	Units	92134986001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	34.0	32.7	4	

SAMPLE DUPLICATE: 855989

Parameter	Units	92135516035 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	12.5	12.4	0	





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**QUALITY CONTROL DATA**

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

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QC Batch: PMST/5074 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92135495038, 92135495039, 92135495040, 92135495041, 92135495042, 92135495043, 92135495044,  
 92135495045, 92135495046, 92135495047, 92135495048, 92135495049, 92135495050, 92135495051,  
 92135495052

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SAMPLE DUPLICATE: 857894

Parameter	Units	92136016001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.8	21.7	1	

SAMPLE DUPLICATE: 857895

Parameter	Units	92135495052 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	4.8	4.0	19	



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**QUALITY CONTROL DATA**

Project: R-34216 66P-0116 WBS34542.1.1  
 Pace Project No.: 92135495

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QC Batch: PMST/5075 Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 92135495053, 92135495054, 92135495055, 92135495056, 92135495057, 92135495058, 92135495059,  
 92135495060, 92135495061, 92135495062, 92135495063, 92135495064, 92135495065, 92135495066,  
 92135495067, 92135495068, 92135495069, 92135495070, 92135495071, 92135495072

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SAMPLE DUPLICATE: 857896

Parameter	Units	92135495053 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	5.2	4.6	12	

SAMPLE DUPLICATE: 857897

Parameter	Units	92135495072 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.2	9.0	2	



## QUALIFIERS

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

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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.

PRL - Pace Reporting 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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.

A+ The reaction of the soil preservative, sodium bisulfate, is known to react with humic acid in soils to produce ketones. Based upon method blank results, the laboratory feels the ketones in this sample are a result of that reaction.

F3 The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135495001	B-30 13'	EPA 8260	MSV/20838		
92135495002	B-30 24'	EPA 8260	MSV/20838		
92135495003	B-32 1'	EPA 8260	MSV/20838		
92135495004	B-32 16'	EPA 8260	MSV/20838		
92135495005	B-32 28'	EPA 8260	MSV/20844		
92135495006	B-31 14'	EPA 8260	MSV/20844		
92135495007	B-31 28'	EPA 8260	MSV/20844		
92135495008	B-33 2'	EPA 8260	MSV/20844		
92135495009	B-33 18'	EPA 8260	MSV/20844		
92135495010	B-33 32'	EPA 8260	MSV/20844		
92135495011	B-36 12'	EPA 8260	MSV/20844		
92135495012	B-35 14'	EPA 8260	MSV/20844		
92135495013	B-35 16'	EPA 8260	MSV/20844		
92135495014	B-34 2'	EPA 8260	MSV/20844		
92135495015	B-34 22'	EPA 8260	MSV/20844		
92135495016	B-29 2'	EPA 8260	MSV/20844		
92135495017	B-29 14'	EPA 8260	MSV/20876		
92135495018	B-27 4'	EPA 8260	MSV/20876		
92135495019	B-27 12'	EPA 8260	MSV/20876		
92135495020	B-26 2'	EPA 8260	MSV/20876		
92135495021	B-26 6'	EPA 8260	MSV/20888		
92135495022	B-26 12'	EPA 8260	MSV/20888		
92135495023	B-25 2'	EPA 8260	MSV/20888		
92135495024	B-25 6'	EPA 8260	MSV/20888		
92135495025	B-25 10'	EPA 8260	MSV/20888		
92135495026	B-28 2'	EPA 8260	MSV/20888		
92135495027	B-28 14'	EPA 8260	MSV/20888		
92135495028	B-24 2'	EPA 8260	MSV/20890		
92135495029	B-24 12'	EPA 8260	MSV/20890		
92135495030	B-24 14'	EPA 8260	MSV/20890		
92135495031	B-23 2'	EPA 8260	MSV/20890		
92135495032	B-23 14'	EPA 8260	MSV/20890		
92135495033	B-22 10'	EPA 8260	MSV/20890		
92135495034	B-22 14'	EPA 8260	MSV/20890		
92135495035	B-2 1'	EPA 8260	MSV/20890		
92135495036	B-2 4'	EPA 8260	MSV/20890		
92135495037	B-34 32'	EPA 8260	MSV/20890		
92135495038	B-3 @ 1'	EPA 8260	MSV/20890		
92135495039	B-3 @ 3'	EPA 8260	MSV/20898		
92135495040	B-4 @ 2'	EPA 8260	MSV/20901		
92135495041	B-4 @ 8'	EPA 8260	MSV/20901		
92135495042	B-1 @ 2'	EPA 8260	MSV/20901		
92135495043	B-7 @ 2'	EPA 8260	MSV/20901		
92135495044	B-1 @ 4'	EPA 8260	MSV/20901		
92135495045	B-7 @ 6'	EPA 8260	MSV/20901		
92135495046	B-7 @ 10'	EPA 8260	MSV/20901		

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135495047	B-6 @ 2'	EPA 8260	MSV/20901		
92135495048	B-6 @ 8'	EPA 8260	MSV/20901		
92135495049	B-5 @ 1'	EPA 8260	MSV/20901		
92135495050	B-5 @ 3'	EPA 8260	MSV/20901		
92135495051	B-8 @ 1'	EPA 8260	MSV/20901		
92135495052	B-8 @ 4'	EPA 8260	MSV/20901		
92135495053	B-9 @ 1'	EPA 8260	MSV/20901		
92135495054	B-9 @ 4'	EPA 8260	MSV/20902		
92135495055	B-10 @ 1'	EPA 8260	MSV/20902		
92135495056	B-10 @ 4'	EPA 8260	MSV/20902		
92135495057	B-11 @ 4'	EPA 8260	MSV/20902		
92135495058	B-11 @ 6'	EPA 8260	MSV/20902		
92135495059	B-11 @ 16'	EPA 8260	MSV/20902		
92135495060	B-12 @ 2'	EPA 8260	MSV/20908		
92135495061	B-12 @ 10'	EPA 8260	MSV/20908		
92135495062	B-12 @ 14'	EPA 8260	MSV/20908		
92135495063	B-13 @ 2'	EPA 8260	MSV/20908		
92135495064	B-13 @ 6'	EPA 8260	MSV/20908		
92135495065	B-13 @ 10'	EPA 8260	MSV/20908		
92135495066	B-14 @ 2'	EPA 8260	MSV/20908		
92135495067	B-14 @ 10'	EPA 8260	MSV/20908		
92135495068	B-14 @ 12'	EPA 8260	MSV/20908		
92135495069	B-16 @ 6'	EPA 8260	MSV/20916		
92135495070	B-16 @ 10'	EPA 8260	MSV/20916		
92135495071	B-15 @ 2'	EPA 8260	MSV/20916		
92135495072	B-15 @ 4'	EPA 8260	MSV/20916		
92135495073	B-15 @ 10'	EPA 8260	MSV/20916		
92135495074	B-18 @ 1'	EPA 8260	MSV/20916		
92135495075	B-18 @ 3'	EPA 8260	MSV/20916		
92135495076	B-17 @ 1'	EPA 8260	MSV/20916		
92135495077	B-17 @ 2'	EPA 8260	MSV/20916		
92135495078	B-19 @ 2'	EPA 8260	MSV/20916		
92135495079	B-19 @ 3'	EPA 8260	MSV/20916		
92135495080	B-20 @ 1'	EPA 8260	MSV/20916		
92135495081	B-20 @ 4'	EPA 8260	MSV/20916		
92135495082	B-21 @ 1'	EPA 8260	MSV/20916		
92135495083	B-21 @ 4'	EPA 8260	MSV/20916		
92135495001	B-30 13'	ASTM D2974-87	PMST/5066		
92135495002	B-30 24'	ASTM D2974-87	PMST/5066		
92135495003	B-32 1'	ASTM D2974-87	PMST/5066		
92135495004	B-32 16'	ASTM D2974-87	PMST/5066		
92135495005	B-32 28'	ASTM D2974-87	PMST/5066		
92135495006	B-31 14'	ASTM D2974-87	PMST/5066		
92135495007	B-31 28'	ASTM D2974-87	PMST/5066		
92135495008	B-33 2'	ASTM D2974-87	PMST/5066		
92135495009	B-33 18'	ASTM D2974-87	PMST/5066		
92135495010	B-33 32'	ASTM D2974-87	PMST/5066		

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R-34216 66P-0116 WBS34542.1.1  
Pace Project No.: 92135495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135495011	B-36 12'	ASTM D2974-87	PMST/5066		
92135495012	B-35 14'	ASTM D2974-87	PMST/5066		
92135495013	B-35 16'	ASTM D2974-87	PMST/5066		
92135495014	B-34 2'	ASTM D2974-87	PMST/5066		
92135495015	B-34 22'	ASTM D2974-87	PMST/5066		
92135495016	B-29 2'	ASTM D2974-87	PMST/5066		
92135495017	B-29 14'	ASTM D2974-87	PMST/5066		
92135495018	B-27 4'	ASTM D2974-87	PMST/5066		
92135495019	B-27 12'	ASTM D2974-87	PMST/5066		
92135495020	B-26 2'	ASTM D2974-87	PMST/5066		
92135495021	B-26 6'	ASTM D2974-87	PMST/5067		
92135495022	B-26 12'	ASTM D2974-87	PMST/5067		
92135495023	B-25 2'	ASTM D2974-87	PMST/5067		
92135495024	B-25 6'	ASTM D2974-87	PMST/5067		
92135495025	B-25 10'	ASTM D2974-87	PMST/5067		
92135495026	B-28 2'	ASTM D2974-87	PMST/5067		
92135495027	B-28 14'	ASTM D2974-87	PMST/5067		
92135495028	B-24 2'	ASTM D2974-87	PMST/5067		
92135495029	B-24 12'	ASTM D2974-87	PMST/5067		
92135495030	B-24 14'	ASTM D2974-87	PMST/5067		
92135495031	B-23 2'	ASTM D2974-87	PMST/5067		
92135495032	B-23 14'	ASTM D2974-87	PMST/5067		
92135495033	B-22 10'	ASTM D2974-87	PMST/5067		
92135495034	B-22 14'	ASTM D2974-87	PMST/5067		
92135495035	B-2 1'	ASTM D2974-87	PMST/5067		
92135495036	B-2 4'	ASTM D2974-87	PMST/5067		
92135495037	B-34 32'	ASTM D2974-87	PMST/5067		
92135495038	B-3 @ 1'	ASTM D2974-87	PMST/5074		
92135495039	B-3 @ 3'	ASTM D2974-87	PMST/5074		
92135495040	B-4 @ 2'	ASTM D2974-87	PMST/5074		
92135495041	B-4 @ 8'	ASTM D2974-87	PMST/5074		
92135495042	B-1 @ 2'	ASTM D2974-87	PMST/5074		
92135495043	B-7 @ 2'	ASTM D2974-87	PMST/5074		
92135495044	B-1 @ 4'	ASTM D2974-87	PMST/5074		
92135495045	B-7 @ 6'	ASTM D2974-87	PMST/5074		
92135495046	B-7 @ 10'	ASTM D2974-87	PMST/5074		
92135495047	B-6 @ 2'	ASTM D2974-87	PMST/5074		
92135495048	B-6 @ 8'	ASTM D2974-87	PMST/5074		
92135495049	B-5 @ 1'	ASTM D2974-87	PMST/5074		
92135495050	B-5 @ 3'	ASTM D2974-87	PMST/5074		
92135495051	B-8 @ 1'	ASTM D2974-87	PMST/5074		
92135495052	B-8 @ 4'	ASTM D2974-87	PMST/5074		
92135495053	B-9 @ 1'	ASTM D2974-87	PMST/5075		
92135495054	B-9 @ 4'	ASTM D2974-87	PMST/5075		
92135495055	B-10 @ 1'	ASTM D2974-87	PMST/5075		
92135495056	B-10 @ 4'	ASTM D2974-87	PMST/5075		
92135495057	B-11 @ 4'	ASTM D2974-87	PMST/5075		



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: R-34216 66P-0116 WBS34542.1.1

Pace Project No.: 92135495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92135495058	B-11 @ 6'	ASTM D2974-87	PMST/5075		
92135495059	B-11 @ 16'	ASTM D2974-87	PMST/5075		
92135495060	B-12 @ 2'	ASTM D2974-87	PMST/5075		
92135495061	B-12 @ 10'	ASTM D2974-87	PMST/5075		
92135495062	B-12 @ 14'	ASTM D2974-87	PMST/5075		
92135495063	B-13 @ 2'	ASTM D2974-87	PMST/5075		
92135495064	B-13 @ 6'	ASTM D2974-87	PMST/5075		
92135495065	B-13 @ 10'	ASTM D2974-87	PMST/5075		
92135495066	B-14 @ 2'	ASTM D2974-87	PMST/5075		
92135495067	B-14 @ 10'	ASTM D2974-87	PMST/5075		
92135495068	B-14 @ 12'	ASTM D2974-87	PMST/5075		
92135495069	B-16 @ 6'	ASTM D2974-87	PMST/5075		
92135495070	B-16 @ 10'	ASTM D2974-87	PMST/5075		
92135495071	B-15 @ 2'	ASTM D2974-87	PMST/5075		
92135495072	B-15 @ 4'	ASTM D2974-87	PMST/5075		
92135495073	B-15 @ 10'	ASTM D2974-87	PMST/5076		
92135495074	B-18 @ 1'	ASTM D2974-87	PMST/5076		
92135495075	B-18 @ 3'	ASTM D2974-87	PMST/5076		
92135495076	B-17 @ 1'	ASTM D2974-87	PMST/5076		
92135495077	B-17 @ 2'	ASTM D2974-87	PMST/5076		
92135495078	B-19 @ 2'	ASTM D2974-87	PMST/5076		
92135495079	B-19 @ 3'	ASTM D2974-87	PMST/5076		
92135495080	B-20 @ 1'	ASTM D2974-87	PMST/5076		
92135495081	B-20 @ 4'	ASTM D2974-87	PMST/5076		
92135495082	B-21 @ 1'	ASTM D2974-87	PMST/5076		
92135495083	B-21 @ 4'	ASTM D2974-87	PMST/5076		



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4  
**1602335**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>NCDOT</u>		Report To: <u>M. S. SABODISH</u>		Attention:	
Address:		Copy To:		Company Name: <u>NCDOT</u>	
Email To: <u>MSABODISH@FANDK.COM</u>		Purchase Order No.: <u>WBS 34542.1.1</u>		REGULATORY AGENCY	
Phone: <u>719-828-3441</u>		Project Name: <u>R-3421C</u>		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Requested Due Date/TAT: <u>STANDARD</u>		Project Number: <u>F+K+H CGP-0116</u>		Site Location: <u>Rockingham</u>	
				STATE: <u>NC</u>	

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other QT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (B=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					DATE	TIME	DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	NH <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol				
1	B-30	C13'	SL	G	<del>10-15-12</del>	10-15-12	12 <sup>23</sup>	4												001	
2	B-30	C24'	SL	G		"	"	4												002	
3	B-32	C1'				"	14 <sup>10</sup>													003	
4	B-32	C16'				"	↓													004	
5	B-32	C28'				"	↓													005	
6	B-31	C14'				"	15 <sup>00</sup>													006	
7	B-31	C28'				"	↓													007	
8	B-33	C2'				"	16 <sup>00</sup>													008	
9	B-33	C18'				"	↓													009	
10	B-33	C32'				"	↓													010	
11	B-36	C12'				"	16 <sup>40</sup>													011	
12	B-35	C14'			10-16	9 <sup>10</sup>														012	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	M. Sabodish / F&K	10-16-12	4 <sup>30P</sup>	M. Kell / F&K	10/16	4 <sup>30P</sup>	
	<del>H. [unclear] / F&amp;K</del>	10/17	11:25	<del>[unclear] / Pace</del>	10/17	11:25	
	<del>[unclear] / Pace</del>	10/17	12:10	<del>[unclear] - Dale</del>	10-17-12	12:10	

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Michael S. Sabodish				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	10-16-12		

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4  
**1602334**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>NC DOT</u>		Report To: <u>Mike Sabodish</u>		Attention:	
Address:		Copy To:		Company Name: <u>NC DOT</u>	
Email To: <u>MSABODISH@PACOR.COM</u>		Purchase Order No.: <u>WBS 34542-1.1</u>		REGULATORY AGENCY	
Phone: <u>919-828-7441</u> Fax:		Project Name: <u>R-3421C</u>		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT: <u>Std</u>		Project Number: <u>F+K# 66P-0116</u>		Site Location: <u>Rockingham</u>	
				STATE: <u>NC</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Legend Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test EPA 8260	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.	
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other
				DATE	TIME	DATE	TIME														
1	B-35 @ 16'	SL	G			10/16/12	9:10	4											013		
2	B-34 @ 2'						10:34												014		
3	B-34 @ 22'																		015		
4	B-29 @ 2'						11:00												016		
5	B-29 @ 14'																		017		
6	B-27 @ 4'						11:40												018		
7	B-27 @ 12'																		019		
8	B-26 @ 2'						12:22												020		
9	B-26 @ 6'																		021		
10	B-26 @ 12'																		022		
11	B-25 @ 2'						12:30												023		
12	B-25 @ 6'																		024		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	M. SABODISH / PER	10-16-12	4:30P	JL / F+R	10/16	4:30P	
	JL / IR	10/17	11:25	Face	10/17	11:25	
	Face	10/17	12:10	Ch / Face	10/17	12:10	

ORIGINAL	SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER: <u>Michael S. Sabodish Jr</u>							
	SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>10-16-12</u>							

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.





# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 4  
**1602333**

**Section A**  
Required Client Information:

Company: NCDOT  
Address:  
Email To: MSABODISH@FANOR.COM  
Phone: 719-525-3441 Fax:  
Requested Due Date/TAT:

**Section B**  
Required Project Information:

Report To: Miko Sabodish  
Copy To:  
Purchase Order No.: WGS 34542.1.1  
Project Name: R-3421C  
Project Number: Fork 660-0116

**Section C**  
Invoice Information:

Attention:  
Company Name: NCDOT  
Address:  
Pace Quote Reference:  
Pace Project Manager:  
Pace Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
Site Location: Rockingham  
STATE: NC

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ <u>EPA 8160</u>	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No / Lab I.D. <u>037</u>	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other
					DATE	TIME	DATE	TIME														
1	<b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT																				
	<u>B-34 @ 32'</u>		<u>SL</u>	<u>C</u>			<u>10-16-12</u>	<u>10:45</u>		<u>4</u>												
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>M. SABODISH / Fork</u>	<u>10-16-12</u>	<u>4:30</u>	<u>R. Bell / Fork</u>	<u>10/16</u>	<u>4:30<sup>0</sup></u>	
	<u>[Signature]</u>	<u>10/17</u>	<u>11:25</u>	<u>[Signature]</u>	<u>10/17</u>	<u>11:25</u>	
	<u>[Signature]</u>	<u>10/17</u>	<u>12:10</u>	<u>[Signature]</u>	<u>10/17</u>	<u>12:10</u>	

ORIGINAL

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Michael J. Sabodish Jr  
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 10-16-12

Temp in °C  
Received on Ice (Y/N)  
Custody Sealed Cooler (Y/N)  
Samples Intact (Y/N)

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# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 4  
**1602336**

**Section A**  
Required Client Information:

Company: NCDOT  
Address:  
Email To: MSABODISH@FARBER.COM  
Phone: 419-228-3441 Fax:  
Requested Due Date/TAT: STD

**Section B**  
Required Project Information:

Report To: Mike Sabodish  
Copy To: NCDOT  
Purchase Order No.: WBS 24542.1.1  
Project Name: NCDOT Richmond Cty  
Project Number: FAK # 66P-0116

**Section C**  
Invoice Information:

Attention: NCDOT Gordon Box  
Company Name:  
Address:  
Pace Quote Reference:  
Pace Project Manager:  
Pace Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
Site Location: Rockingham  
STATE: NC

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test: <u>FDA 9260</u>	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		DW	WT	COMPOSITE START	COMPOSITE END/GRAB	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	Methanol	Other					
		Waste Water	Product	Soil/Solid	Oil	Wipe	Air			Tissue	Other	DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			
1	B-3 C1	SL	G						4											038
2	B-3 C3																			039
3	B-4 C21																			040
4	B-4 C8																			041
5	B-1 C2																			042
6	B-1 C4																			043 <del>043</del> 044
7	B-7 C2																			043
8	B-7 C6																			045
9	B-7 C10																			046
10	B-6 C2																			047
11	B-6 C8																			048
12	B-5 C1	V	V																	049

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>M. Sabodish / PM</u>			<u>David Z. Jumper / Pace</u>	<u>10-18-12</u>	<u>11:00</u>	
	<u>Daniel J. Jumper / Pace</u>	<u>10-19-12</u>	<u>13:15</u>	<u>Matt B. Jumper / Pace</u>	<u>10/19/12</u>	<u>13:15</u>	

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Michael S. Sabodish JR</u>				
SIGNATURE of SAMPLER:	<u>Michael Sabodish</u>				
DATE Signed (MM/DD/YY):					
<u>10-18-12</u>					

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# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 4  
**1602337**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>NCDOT</u>	Report To: <u>MIKE SABODISH</u>	Attention: <u>GARDEN BOX</u>	REGULATORY AGENCY		
Address:	Copy To: <u>NCDOT</u>	Company Name: <u>NCDOT</u>	<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
Email To: <u>MSABODISH@FANDR.COM</u>	Purchase Order No.: <u>WBS 34542-1-1</u>	Address:	<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER _____
Phone: <u>919-825-3441</u> Fax:	Project Name: <u>NCDOT Richmonds Cty</u>	Pace Quote Reference:	Site Location: <u>ReeKingham</u>	STATE: <u>NC</u>	
Requested Due Date/TAT: <u>STD</u>	Project Number: <u>FR # 66P-0116</u>	Pace Project Manager:			
		Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ F-PH 8260	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
					COMPOSITE START		COMPOSITE ENDIGRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other			
					DATE	TIME	DATE	TIME													
1	B-5 @ 3'		SL	G			10-13-12	11:30	4										050		
2	B-8 @ 1'						"	12:02											051		
3	B-8 @ 4'						"	"											052		
4	B-9 @ 1'						"	12:45											053		
5	B-9 @ 4'						"	"											054		
6	B-10 @ 1'						"	1:15P											055		
7	B-10 @ 4'						"	1:15P											056		
8	B-11 @ 4'						"	1:40P											057		
9	B-11 @ 6'						"	1:40P											058		
10	B-11 @ 16'						"	1:40P											059		
11	B-12 @ 2'						"	2:25P											060		
12	B-12 @ 10'						"	2:25P											061		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	M. SABODISH / FRK			David K. Spencer / Pace	10-19-12	11:10	
	David K. Spencer / Pace	10-19-12	13:15	Matt B. / Pace	10/19/12	13:15	

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Michael S. SABODISH JR				
SIGNATURE of SAMPLER:	<i>Michael S. Sabodish</i>				
DATE Signed (MM/DD/YY):	10-18-12				

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4

**Section A**  
Required Client Information:

**Section B**  
Required Project Information:

**Section C**  
Invoice Information:

Company: <u>NCDOT</u>	Report To: <u>Mike SABODISH</u>	Attention: <u>Gordon Box</u>	1602338
Address:	Copy To: <u>NCDOT</u>	Company Name: <u>NCDOT</u>	
Email To: <u>MSABODISH@FANOR.com</u>	Purchase Order No.: <u>WBS 34542.1.1</u>	Address:	REGULATORY AGENCY
Phone: <u>919-825-3441</u>	Project Name: <u>NCDOT Richmond City</u>	Pace Quote Reference:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Requested Due Date/TAT: <u>STD</u>	Project Number: <u>FYK# 66P-0116</u>	Pace Project Manager:	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
		Pace Profile #:	Site Location: <u>Rockingham</u>
			STATE: <u>NC</u>

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (0=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ EPA 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				Other
					DATE	TIME	DATE	TIME													
1	B-12 C 14'		GC			10-17-12	2:20 P	4										0162			
2	B-13 C 2'					"	3:20 P											0163			
3	B-13 C 6'					"	"											0164			
4	B-13 C 10'					"	"											0165			
5	B-14 C 2'					"	4:40											0166			
6	B-14 C 10'					"	"											0167			
7	B-14 C 12'					"	"											0168			
8	B-16 C 6'					10-18-12	8:50											0169			
9	B-16 C 10'					"	"											0170			
10	B-15 C 2'					"	9:15											0171			
11	B-15 C 4'					"	"											0172			
12	B-15 C 10'					"	"											0173			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>M. SABODISH / FYK</u>			<u>Daniel L. Penn / Pace</u>	10-19-12	1110	
	<u>Daniel L. Penn / Pace</u>	10-19-12	1315	<u>Matt Best / Pace</u>	10/19/12	1315	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Michael S. Sabodish JK</u>	DATE Signed (MM/DD/YY): <u>10-18-12</u>				
SIGNATURE of SAMPLER: <u>Michael S. Sabodish</u>					

ORIGINAL

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

**Section B**  
Required Project Information:

**Section C**  
Invoice Information:

Page: 4 of 4

Company: <u>NCDOT</u>	Report To: <u>MIKE SARODISH</u>	Attention: <u>GORDON BOX</u>	REGULATORY AGENCY
Address:	Copy To: <u>NCDOT</u>	Company Name: <u>NCDOT</u>	
Email To: <u>MSARODISH@FANDOR.COM</u>	Purchase Order No.: <u>WBS 34542.1.1</u>	Pace Quote Reference:	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Phone: <u>919-828-3444</u>	Project Name: <u>NCDOT Richmond City</u>	Pace Project Manager:	Site Location: <u>Richmond</u>
Requested Due Date/TAT: <u>STD</u>	Project Number: <u>FYK# 66P-0116</u>	Pace Profile #:	STATE: <u>NC</u>

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPI)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ ↓ EPA 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				Other
					DATE	TIME	DATE	TIME													
1	B-18 @ 1'		SL	G			10/18/12	9:25	4									074			
2	B-18 @ 3'						"	"										075			
3	B-17 @ 1'						"	9:50										076			
4	B-17 @ 2'						"	"										077			
5	B-19 @ 2'						"	10:00										078			
6	B-19 @ 3'						"	10:05										079			
7	B-20 @ 1'						"	10:15										080			
8	B-20 @ 4'						"	10:15										081			
9	B-21 @ 1'						"	10:35										082			
10	B-21 @ 4'						"	10:35										083			
11	[Handwritten signature]																				
12	[Handwritten signature]																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>M. SARODISH / FYK</u>			<u>Daniel R. [unclear] / Pace</u>	10-18-12	11:10	
	<u>Daniel R. [unclear] / Pace</u>	10-19-12	13:15	<u>Michael [unclear] / Pace</u>	10/19/12	13:15	

*\* Picked up*

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Michael S. Sarodish + JR</u>	DATE Signed (MM/DD/YY): <u>10-18-12</u>				
SIGNATURE of SAMPLER: <u>[Signature]</u>					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SINCE



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