



September 18, 2014

Mr. Mostafa Mehran
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Re: Surface Water and Sediment Sampling near Whirlpool Facility
Whirlpool Corporation
Fort Smith, Arkansas
EPA No. ARD042755389
AFIN No. 66-00048
CAO LIS 13-202

Dear Mr. Mehran:

ENVIRON International Corporation (ENVIRON), on behalf of Whirlpool Corporation, is submitting this letter report summarizing the investigation of surface water and sediment near the Whirlpool facility in response to the Arkansas Department of Environmental Quality's (ADEQ's) request for collection of surface water and sediment samples from Mill Creek in the ADEQ correspondence dated August 6, 2014 (ADEQ comment on the Northeast Corner Supplemental Work Plan). In Whirlpool's response letter dated August 11, 2014, and ADEQ's response letter dated August 15, 2014, it was determined that as part of the current sequential investigative approach for the site, surface water and sediment samples would be collected from the permitted outfalls at the Whirlpool property to assess if there was any trichloroethene (TCE) impact before stepping out and sampling Mill Creek.

As described in more detail below, no TCE or other chlorinated solvents were found in any of the two surface water runoff samples or the multiple sediment samples taken from two discharge locations on the Whirlpool property and the drainage ditch south of the Boys and Girls Club parking lot.

INVESTIGATION BACKGROUND

The objective of the investigation was to determine potential TCE impact to surface water runoff from the Whirlpool property and water that discharges into nearby Mill Creek. As outlined in the August 11, 2014, letter, Outfall 001 discharges from the Whirlpool property at the northeast corner of the site to the ditch along the south side of the parking lot for the Boys and Girls Club. This ditch flows east and ultimately discharges to Mill Creek approximately 1,200 feet east of the northeast corner of Jenny Lind Road and Ingersoll Avenue. Outfall 002 discharges from the Whirlpool property at the west central portion of the Whirlpool property (see Figure 1 for Outfall locations).

Immediately following a thunderstorm rain event on August 18, 2014, two surface water samples were collected near Outfall 001 and Outfall 002 (Figure 1) (lightning precluded sampling during the storm). The rain event on August 18, 2014, totaled 0.27 inches at the Ft. Smith Regional Airport located approximately 1.5 miles northeast of the Whirlpool site. Rain events for the prior ten days included a trace amount of rain on August 16, 2014, 0.19 inches of

rain on August 10, 2014, 0.3 inches of rain on August 9, 2014, and 0.01 inches of rain on August 8, 2014.

The surface water sample at Outfall 001 in the northeast corner of the facility (NE-MANHOLE-SW) was collected from the last onsite stormwater manhole before stormwater discharges into the culvert underlying Jenny Lind Road (this culvert discharges to the ditch along the south side of the Boys and Girls Club parking lot). This collection point was chosen in order to collect a sample before onsite stormwater mixed with stormwater drainage along Ingersoll Avenue and Jenny Lind Road. The Outfall 002 stormwater sample (WEST-SW) was collected on the south side of the drainage culvert along the west central portion of the site due to safe access. The north side of the culvert was too eroded to safely collect a water sample.

On August 20, 2014, three offsite sediment samples were collected near Outfall 001 and five onsite sediment samples near Outfall 002 at locations depicted on Figure 1. Sediment samples were collected from a depth of 0.5 to 1 foot below ground surface (bgs). Sediment samples were collected two days after the rain event on August 18, 2014, to allow standing water to dissipate from the ditch along the south side of the Boys and Girls Club parking lot and the drainage features along the west central portion of the Whirlpool property.

RESULTS

Surface water and sediment sample analytical results are provided in Table 1 and Table 2, and Figure 1 depicts the specific sampling locations. The laboratory reports are provided as Attachment A.

No TCE or other chlorinated solvents were detected in the surface water samples collected from the two Whirlpool stormwater outfalls during the rain storm on Monday, August 18, 2014. No TCE or other chlorinated solvents were detected in three sediment samples collected from the drainage ditch located northeast of the Whirlpool property along the south side of the Boys and Girls Club parking lot or in the five sediment samples collected from the drainage ditches located at the west central portion of the Whirlpool property on Wednesday, August 20, 2014.

SUMMARY

In summary, no TCE or other chlorinated solvent impact was discovered in surface water or sediment associated with the stormwater outfalls from the former Whirlpool facility; therefore, no further investigation of surface water or sediment is necessary.

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We look forward to discussing this report in greater detail and to addressing any questions you may have.

Sincerely,

ENVIRON International Corporation



Michael F. Ellis, PE
Principal

cc: Robert Karwowski – Whirlpool

LIST OF ATTACHMENTS

- Table 1: Summary of Groundwater Sample Analytical Results
- Table 2: Summary of Sediment Sample Analytical Results
- Figure 1: Surface Water and Sediment Sample Locations
- Appendix A: Laboratory Reports

TABLES

TABLE 1
SUMMARY OF SURFACE WATER RESULTS
Whirlpool Corporation; Fort Smith, AR

ENVIRON Sample ID	Remedial Action	NE-MANHOLE-SW-20140818	WEST-SW-20140818
Lab Sample ID	Levels per ADEQ	60176049002	60176049003
Sample Method	RADD Issued 2014		
Sample Date		8/18/2014	8/18/2014
Volatile Organic Compounds			
Bromodichloromethane	80	U (5.0)	U (5.0)
Carbon Tetrachloride	5	U (5.0)	U (5.0)
Chlorobenzene	100	U (5.0)	U (5.0)
Chloroethane	21,000	U (10.0)	U (10.0)
Chloroform	80	U (5.0)	U (5.0)
Chloromethane	190	U (10.0)	U (10.0)
Dibromochloromethane	80	U (2.4)	U (2.4)
1,1-Dichloroethane	2.4	U (5.0)	U (5.0)
1,2-Dichloroethane	5	U (5.0)	U (5.0)
1,1-Dichloroethene	7	U (5.0)	U (5.0)
cis-1,2-Dichloroethene	70	U (5.0)	U (5.0)
trans-1,2-Dichloroethene	100	U (5.0)	U (5.0)
1,2-Dichloropropane	5	U (5.0)	U (5.0)
cis-1,3-Dichloropropene	0.41	U (1.0)	U (1.0)
trans-1,3-Dichloropropene	0.41	U (5.0)	U (5.0)
Methylene Chloride	5	U (5.0)	U (5.0)
1,1,2,2-Tetrachloroethane	0.066	U (5.0)	U (5.0)
Tetrachloroethene	5	U (5.0)	U (5.0)
1,1,1-Trichloroethane	200	U (5.0)	U (5.0)
1,1,2-Trichloroethane	5	U (5.0)	U (5.0)
Trichloroethene	5	U (5.0)	U (5.0)
Vinyl Chloride	2	U (2.0)	U (2.0)

Notes:

All concentrations are presented in ug/L

Abbreviations:

U -- Not Detected.

() -- Detection Limit.

RADD -- Remedial Action Decision Document

ADEQ -- Arkansas Department of Environmental Quality

ug/L = microgram per liter

TABLE 2
SUMMARY OF SEDIMENT RESULTS
Whirlpool Corporation; Fort Smith, AR

Location		SED-01	SED-02	SED-03	SED-04	SED-05	SED-06	SED-07	SED-08
ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	SED-01-SL-20140820	SED-02-SL-20140820	SED-03-SL-20140820	SED-04-SL-20140820	SED-05-SL-20140820	SED-06-SL-20140820	SED-07-SL-20140820	SED-08-SL-20140820
Lab Sample ID	60176262001	60176262002	60176262003	60176262004	60176262005	60176262006	60176262007	60176262008	
Sample Method		8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014	8/20/2014
Volatile Organic Compounds									
Bromodichloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Carbon Tetrachloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chlorobenzene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloroform	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Chloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Dibromochloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,2-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
cis-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
trans-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,2-Dichloropropane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
cis-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
trans-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Methylene Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,2,2-Tetrachloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Tetrachloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,1-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
1,1,2-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Trichloroethene	0.129	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)
Vinyl Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (0.0049)	U (0.0051)	U (0.0054)	U (0.0050)	U (0.0050)

Notes:

All concentrations are presented in mg/kg

Abbreviations:

U -- Not Detected.

() -- Detection Limit.

RADD -- Remedial Action Decision Document

ADEQ -- Arkansas Department of Environmental Quality

mg/kg = milligram per kilogram

NE = Not Established

Mr. Mostafa Mehran - ADEQ

Surface Water and Sediment Sampling Near Whirlpool Facility

Whirlpool Corporation

Fort Smith, AR

September 18, 2014

FIGURE



Mr. Mostafa Mehran - ADEQ

Surface Water and Sediment Sampling Near Whirlpool Facility

Whirlpool Corporation

Fort Smith, AR

September 18, 2014

APPENDIX A:

Laboratory Reports

August 21, 2014

Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith AR
Pace Project No.: 60176049

Dear Wendy Stonestreet:

Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Ft. Smith AR
Pace Project No.: 60176049

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176049001	DP-49-GW-20140817	Water	08/17/14 08:54	08/19/14 02:00
60176049002	NE-MANHOLE-SW-20140818	Water	08/18/14 17:15	08/19/14 02:00
60176049003	WEST-SW-20140818	Water	08/18/14 17:15	08/19/14 02:00
60176049004	TB20-20140818	Water	08/17/14 08:54	08/19/14 02:00

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SAMPLE ANALYTE COUNT

Project: Ft. Smith AR
Pace Project No.: 60176049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176049001	DP-49-GW-20140817	EPA 5030B/8260	PRG	38
60176049002	NE-MANHOLE-SW-20140818	EPA 5030B/8260	PRG	26
60176049003	WEST-SW-20140818	EPA 5030B/8260	PRG	26
60176049004	TB20-20140818	EPA 5030B/8260	PRG	38

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Ft. Smith AR
Pace Project No.: 60176049

Method: EPA 5030B/8260

Description: 8260 MSV

Client: Environ_AR

Date: August 21, 2014

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/63778

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: DP-49-GW-20140817 Lab ID: 60176049001 Collected: 08/17/14 08:54 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND ug/L		10.0	5.0	1		08/20/14 22:36	67-64-1	
Benzene	ND ug/L		5.0	0.50	1		08/20/14 22:36	71-43-2	
Bromodichloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:36	75-27-4	
Bromoform	ND ug/L		5.0	0.50	1		08/20/14 22:36	75-25-2	
Bromomethane	ND ug/L		7.0	2.5	1		08/20/14 22:36	74-83-9	
2-Butanone (MEK)	16.4 ug/L		10.0	5.0	1		08/20/14 22:36	78-93-3	
Carbon disulfide	ND ug/L		10.0	2.5	1		08/20/14 22:36	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	0.50	1		08/20/14 22:36	56-23-5	
Chlorobenzene	ND ug/L		5.0	0.50	1		08/20/14 22:36	108-90-7	
Chloroethane	ND ug/L		10.0	0.50	1		08/20/14 22:36	75-00-3	
Chloroform	ND ug/L		5.0	0.50	1		08/20/14 22:36	67-66-3	
Chloromethane	ND ug/L		10.0	0.50	1		08/20/14 22:36	74-87-3	
Dibromochloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:36	124-48-1	
1,1-Dichloroethane	ND ug/L		2.4	0.50	1		08/20/14 22:36	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:36	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:36	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:36	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:36	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	0.50	1		08/20/14 22:36	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:36	10061-02-6	
Ethylbenzene	ND ug/L		5.0	0.50	1		08/20/14 22:36	100-41-4	
2-Hexanone	ND ug/L		10.0	5.0	1		08/20/14 22:36	591-78-6	
Methylene chloride	ND ug/L		5.0	0.50	1		08/20/14 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	2.5	1		08/20/14 22:36	108-10-1	
Styrene	ND ug/L		5.0	0.50	1		08/20/14 22:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		08/20/14 22:36	79-34-5	
Tetrachloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:36	127-18-4	
Toluene	ND ug/L		5.0	0.50	1		08/20/14 22:36	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:36	79-00-5	
Trichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:36	79-01-6	
Vinyl chloride	ND ug/L		2.0	0.50	1		08/20/14 22:36	75-01-4	
Xylene (Total)	ND ug/L		5.0	1.5	1		08/20/14 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102 %		80-120		1		08/20/14 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		80-120		1		08/20/14 22:36	17060-07-0	
Toluene-d8 (S)	98 %		80-120		1		08/20/14 22:36	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		08/20/14 22:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: NE-MANHOLE-SW-
20140818 Lab ID: 60176049002 Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:50	75-27-4	
Carbon tetrachloride	ND ug/L		5.0	0.50	1		08/20/14 22:50	56-23-5	
Chlorobenzene	ND ug/L		5.0	0.50	1		08/20/14 22:50	108-90-7	
Chloroethane	ND ug/L		10.0	0.50	1		08/20/14 22:50	75-00-3	
Chloroform	ND ug/L		5.0	0.50	1		08/20/14 22:50	67-66-3	
Chloromethane	ND ug/L		10.0	0.50	1		08/20/14 22:50	74-87-3	
Dibromochloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:50	124-48-1	
1,1-Dichloroethane	ND ug/L		2.4	0.50	1		08/20/14 22:50	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:50	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:50	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:50	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:50	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	0.50	1		08/20/14 22:50	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:50	10061-02-6	
Methylene chloride	ND ug/L		5.0	0.50	1		08/20/14 22:50	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		08/20/14 22:50	79-34-5	
Tetrachloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:50	127-18-4	
1,1,1-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:50	79-00-5	
Trichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:50	79-01-6	
Vinyl chloride	ND ug/L		2.0	0.50	1		08/20/14 22:50	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97 %		80-120		1		08/20/14 22:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		80-120		1		08/20/14 22:50	17060-07-0	
Toluene-d8 (S)	97 %		80-120		1		08/20/14 22:50	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		08/20/14 22:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: WEST-SW-20140818 Lab ID: 60176049003 Collected: 08/18/14 17:15 Received: 08/19/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromodichloromethane	ND ug/L		5.0	0.50	1		08/20/14 23:04	75-27-4	
Carbon tetrachloride	ND ug/L		5.0	0.50	1		08/20/14 23:04	56-23-5	
Chlorobenzene	ND ug/L		5.0	0.50	1		08/20/14 23:04	108-90-7	
Chloroethane	ND ug/L		10.0	0.50	1		08/20/14 23:04	75-00-3	
Chloroform	ND ug/L		5.0	0.50	1		08/20/14 23:04	67-66-3	
Chloromethane	ND ug/L		10.0	0.50	1		08/20/14 23:04	74-87-3	
Dibromochloromethane	ND ug/L		5.0	0.50	1		08/20/14 23:04	124-48-1	
1,1-Dichloroethane	ND ug/L		2.4	0.50	1		08/20/14 23:04	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	0.50	1		08/20/14 23:04	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 23:04	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 23:04	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 23:04	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	0.50	1		08/20/14 23:04	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 23:04	10061-02-6	
Methylene chloride	ND ug/L		5.0	0.50	1		08/20/14 23:04	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		08/20/14 23:04	79-34-5	
Tetrachloroethene	ND ug/L		5.0	0.50	1		08/20/14 23:04	127-18-4	
1,1,1-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 23:04	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 23:04	79-00-5	
Trichloroethene	ND ug/L		5.0	0.50	1		08/20/14 23:04	79-01-6	
Vinyl chloride	ND ug/L		2.0	0.50	1		08/20/14 23:04	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	97 %		80-120		1		08/20/14 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		80-120		1		08/20/14 23:04	17060-07-0	
Toluene-d8 (S)	92 %		80-120		1		08/20/14 23:04	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		08/20/14 23:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith AR
Pace Project No.: 60176049

Sample: TB20-20140818	Lab ID: 60176049004	Collected: 08/17/14 08:54	Received: 08/19/14 02:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND ug/L		10.0	5.0	1		08/20/14 22:07	67-64-1	
Benzene	ND ug/L		5.0	0.50	1		08/20/14 22:07	71-43-2	
Bromodichloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:07	75-27-4	
Bromoform	ND ug/L		5.0	0.50	1		08/20/14 22:07	75-25-2	
Bromomethane	ND ug/L		7.0	2.5	1		08/20/14 22:07	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	5.0	1		08/20/14 22:07	78-93-3	
Carbon disulfide	ND ug/L		10.0	2.5	1		08/20/14 22:07	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	0.50	1		08/20/14 22:07	56-23-5	
Chlorobenzene	ND ug/L		5.0	0.50	1		08/20/14 22:07	108-90-7	
Chloroethane	ND ug/L		10.0	0.50	1		08/20/14 22:07	75-00-3	
Chloroform	ND ug/L		5.0	0.50	1		08/20/14 22:07	67-66-3	
Chloromethane	ND ug/L		10.0	0.50	1		08/20/14 22:07	74-87-3	
Dibromochloromethane	ND ug/L		5.0	0.50	1		08/20/14 22:07	124-48-1	
1,1-Dichloroethane	ND ug/L		2.4	0.50	1		08/20/14 22:07	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:07	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:07	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:07	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:07	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	0.50	1		08/20/14 22:07	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:07	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.50	1		08/20/14 22:07	10061-02-6	
Ethylbenzene	ND ug/L		5.0	0.50	1		08/20/14 22:07	100-41-4	
2-Hexanone	ND ug/L		10.0	5.0	1		08/20/14 22:07	591-78-6	
Methylene chloride	ND ug/L		5.0	0.50	1		08/20/14 22:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	2.5	1		08/20/14 22:07	108-10-1	
Styrene	ND ug/L		5.0	0.50	1		08/20/14 22:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	0.50	1		08/20/14 22:07	79-34-5	
Tetrachloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:07	127-18-4	
Toluene	ND ug/L		5.0	0.50	1		08/20/14 22:07	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:07	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	0.50	1		08/20/14 22:07	79-00-5	
Trichloroethene	ND ug/L		5.0	0.50	1		08/20/14 22:07	79-01-6	
Vinyl chloride	ND ug/L		2.0	0.50	1		08/20/14 22:07	75-01-4	
Xylene (Total)	ND ug/L		5.0	1.5	1		08/20/14 22:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100 %		80-120		1		08/20/14 22:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102 %		80-120		1		08/20/14 22:07	17060-07-0	
Toluene-d8 (S)	94 %		80-120		1		08/20/14 22:07	2037-26-5	
Preservation pH	1.0		0.10	0.10	1		08/20/14 22:07		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ft. Smith AR

Pace Project No.: 60176049

QC Batch:	MSV/63778	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60176049001, 60176049002, 60176049003, 60176049004		

METHOD BLANK: 1428967 Matrix: Water

Associated Lab Samples: 60176049001, 60176049002, 60176049003, 60176049004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/20/14 21:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,1-Dichloroethane	ug/L	ND	2.4	08/20/14 21:39	
1,1-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloropropane	ug/L	ND	5.0	08/20/14 21:39	
2-Butanone (MEK)	ug/L	ND	10.0	08/20/14 21:39	
2-Hexanone	ug/L	ND	10.0	08/20/14 21:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/20/14 21:39	
Acetone	ug/L	ND	10.0	08/20/14 21:39	
Benzene	ug/L	ND	5.0	08/20/14 21:39	
Bromodichloromethane	ug/L	ND	5.0	08/20/14 21:39	
Bromoform	ug/L	ND	5.0	08/20/14 21:39	
Bromomethane	ug/L	ND	7.0	08/20/14 21:39	
Carbon disulfide	ug/L	ND	10.0	08/20/14 21:39	
Carbon tetrachloride	ug/L	ND	5.0	08/20/14 21:39	
Chlorobenzene	ug/L	ND	5.0	08/20/14 21:39	
Chloroethane	ug/L	ND	10.0	08/20/14 21:39	
Chloroform	ug/L	ND	5.0	08/20/14 21:39	
Chloromethane	ug/L	ND	10.0	08/20/14 21:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Dibromochloromethane	ug/L	ND	5.0	08/20/14 21:39	
Ethylbenzene	ug/L	ND	5.0	08/20/14 21:39	
Methylene chloride	ug/L	ND	5.0	08/20/14 21:39	
Styrene	ug/L	ND	5.0	08/20/14 21:39	
Tetrachloroethene	ug/L	ND	5.0	08/20/14 21:39	
Toluene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/20/14 21:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/20/14 21:39	
Trichloroethene	ug/L	ND	5.0	08/20/14 21:39	
Vinyl chloride	ug/L	ND	2.0	08/20/14 21:39	
Xylene (Total)	ug/L	ND	5.0	08/20/14 21:39	
1,2-Dichloroethane-d4 (S)	%	96	80-120	08/20/14 21:39	
4-Bromofluorobenzene (S)	%	94	80-120	08/20/14 21:39	
Toluene-d8 (S)	%	93	80-120	08/20/14 21:39	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ft. Smith AR
Pace Project No.: 60176049

LABORATORY CONTROL SAMPLE: 1428968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	73-124	
1,1,2-Trichloroethane	ug/L	20	20.3	102	80-120	
1,1-Dichloroethane	ug/L	20	19.0	95	77-120	
1,1-Dichloroethene	ug/L	20	17.4	87	78-126	
1,2-Dichloroethane	ug/L	20	20.2	101	77-123	
1,2-Dichloropropane	ug/L	20	18.7	94	80-121	
2-Butanone (MEK)	ug/L	100	94.8	95	52-145	
2-Hexanone	ug/L	100	91.1	91	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.8	96	71-131	
Acetone	ug/L	100	98.2	98	32-155	
Benzene	ug/L	20	18.4	92	80-120	
Bromodichloromethane	ug/L	20	21.6	108	80-120	
Bromoform	ug/L	20	19.8	99	73-124	
Bromomethane	ug/L	20	16.1	80	31-144	
Carbon disulfide	ug/L	20	19.0	95	65-125	
Carbon tetrachloride	ug/L	20	19.4	97	78-128	
Chlorobenzene	ug/L	20	20.7	104	80-120	
Chloroethane	ug/L	20	18.1	91	55-137	
Chloroform	ug/L	20	19.5	97	79-120	
Chloromethane	ug/L	20	14.2	71	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	80-120	
Dibromochloromethane	ug/L	20	21.0	105	80-120	
Ethylbenzene	ug/L	20	20.7	103	80-121	
Methylene chloride	ug/L	20	19.4	97	73-126	
Styrene	ug/L	20	21.1	105	80-120	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	19.4	97	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	80-127	
Trichloroethene	ug/L	20	19.0	95	80-120	
Vinyl chloride	ug/L	20	15.7	78	59-120	
Xylene (Total)	ug/L	60	58.9	98	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			100	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Ft. Smith AR
Pace Project No.: 60176049

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/63778

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith AR
 Pace Project No.: 60176049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176049001	DP-49-GW-20140817	EPA 5030B/8260	MSV/63778		
60176049002	NE-MANHOLE-SW-20140818	EPA 5030B/8260	MSV/63778		
60176049003	WEST-SW-20140818	EPA 5030B/8260	MSV/63778		
60176049004	TB20-20140818	EPA 5030B/8260	MSV/63778		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60176049



60176049

Client Name: Enviro

Courier: Fed Ex UPS USPS Client Commercial Pace Other via

Tracking #: _____

Pace Shipping Label Used? Yes No

Optional
Proj Due Date:
Proj Name:

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Packing Material: Bubble Wrap Bubble Bags Foam None Other *plastic*Thermometer Used: 1-239 / T-194Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 2.6Date and initials of person examining
contents: art 8/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses	Matrix: <u>U1</u>	13.	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>061114-20ED</u>		15.	
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>1/2 TB Headspace</u>	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MWDate: 8/11/14

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Environ	Report To: Wendy Stonestreet	Copy To: Tamara Gleason	Attention: Tamara Gleason		
Address: 7500 College Blvd., Ste. 925		tgleason@environcorp.com	Company Name:		
Overland Park, KS 66210			Address:		
Email To: wstonestreet@environcorp.com		Purchase Order No.:	Pace Quote Reference:		
Phone: 913-553-5926	Fax:	Project Name: Fort Smith, AR	Pace Project Manager:	MJ Walls	Site Location
Requested Due Date/TAT:		Project Number: 343446A	Pace Profile #:	7444 water, 7709 soil	STATE: AR
Residual Chlorine (Y/N)					
REGULATORY AGENCY					
<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					
Pace Project No/ Lab I.D.					
2060 client specific list					
Analysis Test Y/N					
Preservatives					
# OF CONTAINERS					
SAMPLE TEMP AT COLLECTION					
# OF PRESERVED					
Unpreserved					
Other					
Na2S2O3					
NaOH					
HCl					
HNO3					
H2SO4					
SAMPLE TYPE (G=GRAB C=COMP)					
MATERIAL CODE (see valid codes to left)					
COLLECTED					
COMPOSITE ENDGRAB					
COMPOSITE START					
DATE TIME DATE TIME					
ITEM #					
SAMPLE ID: (A-Z 0-9 / -) Sample IDs MUST BE UNIQUE					
1	DP-49-GW-20140817	WT G	8/17/14 0854	2	X X
2	NE-Manhole-Sw-20140818	WT G	8/18/14 1715	3	X
3	west-Sw-20140818	WT G	8/18/14 1733	3	X
4	Trip Blank 12-082014	WT		2	X
5					
6					
7					
8					
9					
10					
11					
12					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION
CALL WENDY STONESTREET		ENVIRON	8/18/14	0200	2.00
FOR SPECIFIC TEST					Y Y Y Y
FOR CHLORINE					
SAMPLE NAME AND SIGNATURE					
PRINT NAME of SAMPLER: Michael Gleason					
SIGNATURE of SAMPLER: Aug 7					
Temp in °C					
Received on _____					
Custody Sealed (Y/N)					
Custodian (Y/N)					
Samples intact (Y/N)					
Printed Name _____					
Signature _____					
Date Signed (MM/DD/YY): 8/18/14					

*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.

August 22, 2014

Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Soil
Pace Project No.: 60176262

Dear Wendy Stonestreet:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Mary Jane Walls
maryjane.walls@pacelabs.com
PM Lab Management

Enclosures

cc: EDD, Environ_AR
Tamara Gleason, ENVIRON International Corporation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: Ft. Smith Soil
 Pace Project No.: 60176262

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60176262001	SED-01-SL-20140820	Solid	08/20/14 12:45	08/21/14 01:30
60176262002	SED-02-SL-20140820	Solid	08/20/14 13:00	08/21/14 01:30
60176262003	SED-03-SL-20140820	Solid	08/20/14 13:15	08/21/14 01:30
60176262004	SED-04-SL-20140820	Solid	08/20/14 14:10	08/21/14 01:30
60176262005	SED-05-SL-20140820	Solid	08/20/14 14:50	08/21/14 01:30
60176262006	SED-06-SL-20140820	Solid	08/20/14 15:00	08/21/14 01:30
60176262007	SED-07-SL-20140820	Solid	08/20/14 15:10	08/21/14 01:30
60176262008	SED-08-SL-20140820	Solid	08/20/14 15:20	08/21/14 01:30

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SAMPLE ANALYTE COUNT

Project: Ft. Smith Soil
Pace Project No.: 60176262

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60176262001	SED-01-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262002	SED-02-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262003	SED-03-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262004	SED-04-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262005	SED-05-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262006	SED-06-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262007	SED-07-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1
60176262008	SED-08-SL-20140820	EPA 8260	JKL	25
		ASTM D2974	DWC	1

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PROJECT NARRATIVE

Project: Ft. Smith Soil
Pace Project No.: 60176262

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 22, 2014

General Information:

8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-01-SL-20140820 Lab ID: 60176262001 Collected: 08/20/14 12:45 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-27-4	
Carbon tetrachloride	ND ug/kg		5.5	2.7	1		08/21/14 17:02	56-23-5	
Chlorobenzene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	108-90-7	
Chloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-00-3	
Chloroform	ND ug/kg		5.5	2.7	1		08/21/14 17:02	67-66-3	
Chloromethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	74-87-3	
Dibromochloromethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	124-48-1	
1,1-Dichloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	10061-02-6	
Methylene chloride	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	79-34-5	
Tetrachloroethene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		5.5	2.7	1		08/21/14 17:02	79-00-5	
Trichloroethene	ND ug/kg		5.5	2.7	1		08/21/14 17:02	79-01-6	
Vinyl chloride	ND ug/kg		5.5	2.7	1		08/21/14 17:02	75-01-4	
Surrogates									
Toluene-d8 (S)	99 %		80-120		1		08/21/14 17:02	2037-26-5	
4-Bromofluorobenzene (S)	99 %		76-123		1		08/21/14 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		75-129		1		08/21/14 17:02	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	17.7 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-02-SL-20140820 Lab ID: 60176262002 Collected: 08/20/14 13:00 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260							
Bromodichloromethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-27-4	
Carbon tetrachloride	ND ug/kg		6.5	3.3	1		08/21/14 17:17	56-23-5	
Chlorobenzene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	108-90-7	
Chloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-00-3	
Chloroform	ND ug/kg		6.5	3.3	1		08/21/14 17:17	67-66-3	
Chloromethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	74-87-3	
Dibromochloromethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	124-48-1	
1,1-Dichloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-34-3	
1,2-Dichloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	107-06-2	
1,1-Dichloroethene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	156-60-5	
1,2-Dichloropropane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	10061-02-6	
Methylene chloride	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	79-34-5	
Tetrachloroethene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		6.5	3.3	1		08/21/14 17:17	79-00-5	
Trichloroethene	ND ug/kg		6.5	3.3	1		08/21/14 17:17	79-01-6	
Vinyl chloride	ND ug/kg		6.5	3.3	1		08/21/14 17:17	75-01-4	
Surrogates									
Toluene-d8 (S)	100 %		80-120		1		08/21/14 17:17	2037-26-5	
4-Bromofluorobenzene (S)	101 %		76-123		1		08/21/14 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	104 %		75-129		1		08/21/14 17:17	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	21.1 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-03-SL-20140820 Lab ID: 60176262003 Collected: 08/20/14 13:15 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-27-4	
Carbon tetrachloride	ND ug/kg		4.5	2.3	1		08/21/14 17:32	56-23-5	
Chlorobenzene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	108-90-7	
Chloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-00-3	
Chloroform	ND ug/kg		4.5	2.3	1		08/21/14 17:32	67-66-3	
Chloromethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	74-87-3	
Dibromochloromethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	124-48-1	
1,1-Dichloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	10061-02-6	
Methylene chloride	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	79-34-5	
Tetrachloroethene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.5	2.3	1		08/21/14 17:32	79-00-5	
Trichloroethene	ND ug/kg		4.5	2.3	1		08/21/14 17:32	79-01-6	
Vinyl chloride	ND ug/kg		4.5	2.3	1		08/21/14 17:32	75-01-4	
Surrogates									
Toluene-d8 (S)	99 %		80-120		1		08/21/14 17:32	2037-26-5	
4-Bromofluorobenzene (S)	100 %		76-123		1		08/21/14 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106 %		75-129		1		08/21/14 17:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	16.1 %		0.50	0.50	1		08/21/14 00:00		

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-04-SL-20140820 Lab ID: 60176262004 Collected: 08/20/14 14:10 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260							
Bromodichloromethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-27-4	
Carbon tetrachloride	ND ug/kg		4.9	2.5	1		08/21/14 17:48	56-23-5	
Chlorobenzene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	108-90-7	
Chloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-00-3	
Chloroform	ND ug/kg		4.9	2.5	1		08/21/14 17:48	67-66-3	
Chloromethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	74-87-3	
Dibromochloromethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	124-48-1	
1,1-Dichloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	10061-02-6	
Methylene chloride	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	79-34-5	
Tetrachloroethene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.9	2.5	1		08/21/14 17:48	79-00-5	
Trichloroethene	ND ug/kg		4.9	2.5	1		08/21/14 17:48	79-01-6	
Vinyl chloride	ND ug/kg		4.9	2.5	1		08/21/14 17:48	75-01-4	
Surrogates									
Toluene-d8 (S)	101 %		80-120		1		08/21/14 17:48	2037-26-5	
4-Bromofluorobenzene (S)	105 %		76-123		1		08/21/14 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		75-129		1		08/21/14 17:48	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	22.8 %		0.50	0.50	1		08/21/14 00:00		

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-05-SL-20140820 Lab ID: 60176262005 Collected: 08/20/14 14:50 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260							
Bromodichloromethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-27-4	
Carbon tetrachloride	ND ug/kg		6.4	3.2	1		08/21/14 18:03	56-23-5	
Chlorobenzene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	108-90-7	
Chloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-00-3	
Chloroform	ND ug/kg		6.4	3.2	1		08/21/14 18:03	67-66-3	
Chloromethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	74-87-3	
Dibromochloromethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	124-48-1	
1,1-Dichloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-34-3	
1,2-Dichloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	107-06-2	
1,1-Dichloroethene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	156-60-5	
1,2-Dichloropropane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	10061-02-6	
Methylene chloride	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	79-34-5	
Tetrachloroethene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		6.4	3.2	1		08/21/14 18:03	79-00-5	
Trichloroethene	ND ug/kg		6.4	3.2	1		08/21/14 18:03	79-01-6	
Vinyl chloride	ND ug/kg		6.4	3.2	1		08/21/14 18:03	75-01-4	
Surrogates									
Toluene-d8 (S)	99 %		80-120		1		08/21/14 18:03	2037-26-5	
4-Bromofluorobenzene (S)	100 %		76-123		1		08/21/14 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		75-129		1		08/21/14 18:03	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	29.7 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-06-SL-20140820 Lab ID: 60176262006 Collected: 08/20/14 15:00 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260							
Bromodichloromethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-27-4	
Carbon tetrachloride	ND ug/kg		5.4	2.7	1		08/21/14 18:18	56-23-5	
Chlorobenzene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	108-90-7	
Chloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-00-3	
Chloroform	ND ug/kg		5.4	2.7	1		08/21/14 18:18	67-66-3	
Chloromethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	74-87-3	
Dibromochloromethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	124-48-1	
1,1-Dichloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	10061-02-6	
Methylene chloride	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	79-34-5	
Tetrachloroethene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		5.4	2.7	1		08/21/14 18:18	79-00-5	
Trichloroethene	ND ug/kg		5.4	2.7	1		08/21/14 18:18	79-01-6	
Vinyl chloride	ND ug/kg		5.4	2.7	1		08/21/14 18:18	75-01-4	
Surrogates									
Toluene-d8 (S)	99 %		80-120		1		08/21/14 18:18	2037-26-5	
4-Bromofluorobenzene (S)	103 %		76-123		1		08/21/14 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		75-129		1		08/21/14 18:18	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.1 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-07-SL-20140820 Lab ID: 60176262007 Collected: 08/20/14 15:10 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260							
Bromodichloromethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-27-4	
Carbon tetrachloride	ND ug/kg		4.8	2.4	1		08/21/14 18:34	56-23-5	
Chlorobenzene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	108-90-7	
Chloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-00-3	
Chloroform	ND ug/kg		4.8	2.4	1		08/21/14 18:34	67-66-3	
Chloromethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	74-87-3	
Dibromochloromethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	124-48-1	
1,1-Dichloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-34-3	
1,2-Dichloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	107-06-2	
1,1-Dichloroethene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	156-60-5	
1,2-Dichloropropane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	10061-02-6	
Methylene chloride	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	79-34-5	
Tetrachloroethene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		4.8	2.4	1		08/21/14 18:34	79-00-5	
Trichloroethene	ND ug/kg		4.8	2.4	1		08/21/14 18:34	79-01-6	
Vinyl chloride	ND ug/kg		4.8	2.4	1		08/21/14 18:34	75-01-4	
Surrogates									
Toluene-d8 (S)	100 %		80-120		1		08/21/14 18:34	2037-26-5	
4-Bromofluorobenzene (S)	104 %		76-123		1		08/21/14 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		75-129		1		08/21/14 18:34	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.9 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60176262

Sample: SED-08-SL-20140820 Lab ID: 60176262008 Collected: 08/20/14 15:20 Received: 08/21/14 01:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Bromodichloromethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-27-4	
Carbon tetrachloride	ND ug/kg		5.0	2.5	1		08/21/14 18:49	56-23-5	
Chlorobenzene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	108-90-7	
Chloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-00-3	
Chloroform	ND ug/kg		5.0	2.5	1		08/21/14 18:49	67-66-3	
Chloromethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	74-87-3	
Dibromochloromethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	124-48-1	
1,1-Dichloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	78-87-5	
cis-1,3-Dichloropropene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	10061-02-6	
Methylene chloride	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	79-34-5	
Tetrachloroethene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	127-18-4	
1,1,1-Trichloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	71-55-6	
1,1,2-Trichloroethane	ND ug/kg		5.0	2.5	1		08/21/14 18:49	79-00-5	
Trichloroethene	ND ug/kg		5.0	2.5	1		08/21/14 18:49	79-01-6	
Vinyl chloride	ND ug/kg		5.0	2.5	1		08/21/14 18:49	75-01-4	
Surrogates									
Toluene-d8 (S)	101 %		80-120		1		08/21/14 18:49	2037-26-5	
4-Bromofluorobenzene (S)	103 %		76-123		1		08/21/14 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		75-129		1		08/21/14 18:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	20.7 %		0.50	0.50	1		08/21/14 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

QC Batch:	MSV/63820	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008		

METHOD BLANK:	1429862	Matrix:	Solid
Associated Lab Samples:	60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2-Tetrachloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,1-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloropropane	ug/kg	ND	5.0	08/21/14 16:16	
Bromodichloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Carbon tetrachloride	ug/kg	ND	5.0	08/21/14 16:16	
Chlorobenzene	ug/kg	ND	5.0	08/21/14 16:16	
Chloroethane	ug/kg	ND	5.0	08/21/14 16:16	
Chloroform	ug/kg	ND	5.0	08/21/14 16:16	
Chloromethane	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Dibromochloromethane	ug/kg	ND	5.0	08/21/14 16:16	
Methylene chloride	ug/kg	32.8	5.0	08/21/14 16:16	
Tetrachloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/21/14 16:16	
Trichloroethene	ug/kg	ND	5.0	08/21/14 16:16	
Vinyl chloride	ug/kg	ND	5.0	08/21/14 16:16	
1,2-Dichloroethane-d4 (S)	%	92	75-129	08/21/14 16:16	
4-Bromofluorobenzene (S)	%	99	76-123	08/21/14 16:16	
Toluene-d8 (S)	%	100	80-120	08/21/14 16:16	

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	93.9	94	77-126	
1,1,2-Tetrachloroethane	ug/kg	100	91.7	92	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.2	91	76-120	
1,1-Dichloroethane	ug/kg	100	95.0	95	71-120	
1,1-Dichloroethene	ug/kg	100	101	101	76-130	
1,2-Dichloroethane	ug/kg	100	98.7	99	78-120	
1,2-Dichloropropane	ug/kg	100	95.7	96	80-120	
Bromodichloromethane	ug/kg	100	101	101	80-120	
Carbon tetrachloride	ug/kg	100	94.8	95	75-140	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60176262

LABORATORY CONTROL SAMPLE: 1429863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/kg	100	97.6	98	80-120	
Chloroethane	ug/kg	100	104	104	65-127	
Chloroform	ug/kg	100	93.5	94	74-120	
Chloromethane	ug/kg	100	123	123	39-138	
cis-1,2-Dichloroethene	ug/kg	100	101	101	76-124	
cis-1,3-Dichloropropene	ug/kg	100	95.4	95	82-120	
Dibromochloromethane	ug/kg	100	103	103	80-124	
Methylene chloride	ug/kg	100	106	106	70-123	
Tetrachloroethene	ug/kg	100	94.5	95	78-128	
trans-1,2-Dichloroethene	ug/kg	100	89.5	90	76-124	
trans-1,3-Dichloropropene	ug/kg	100	98.5	98	80-124	
Trichloroethene	ug/kg	100	92.0	92	80-120	
Vinyl chloride	ug/kg	100	106	106	57-132	
1,2-Dichloroethane-d4 (S)	%			101	75-129	
4-Bromofluorobenzene (S)	%			102	76-123	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	MS 60176101001		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	Max RPD RPD Qual	
		Spike Result	Conc.	Spike Conc.	MS Result					RPD	RPD
1,1,1-Trichloroethane	ug/kg	ND	112	112	97.9	87.5	88	78	21-144	11	43
1,1,2,2-Tetrachloroethane	ug/kg	ND	112	112	85.6	73.6	77	66	10-151	15	46
1,1,2-Trichloroethane	ug/kg	ND	112	112	97.6	85.9	87	77	10-140	13	46
1,1-Dichloroethane	ug/kg	ND	112	112	98.9	89.1	89	80	19-137	10	43
1,1-Dichloroethene	ug/kg	ND	112	112	95.2	82.8	85	74	27-143	14	41
1,2-Dichloroethane	ug/kg	ND	112	112	104	93.3	93	84	21-147	11	38
1,2-Dichloropropane	ug/kg	ND	112	112	102	90.2	91	81	15-145	12	43
Bromodichloromethane	ug/kg	ND	112	112	106	95.1	95	85	10-143	11	42
Carbon tetrachloride	ug/kg	ND	112	112	100	88.8	90	80	15-153	12	45
Chlorobenzene	ug/kg	ND	112	112	95.6	85.5	86	77	10-145	11	46
Chloroethane	ug/kg	ND	112	112	119	106	107	95	17-134	11	42
Chloroform	ug/kg	ND	112	112	100	87.1	90	78	17-138	14	44
Chloromethane	ug/kg	ND	112	112	71.5	70.7	64	63	10-128	1	39
cis-1,2-Dichloroethene	ug/kg	ND	112	112	101	92.5	90	83	17-140	9	46
cis-1,3-Dichloropropene	ug/kg	ND	112	112	95.8	84.6	86	76	10-142	12	43
Dibromochloromethane	ug/kg	ND	112	112	104	93.7	93	84	10-149	10	42
Methylene chloride	ug/kg	ND	112	112	110	98.5	95	84	15-140	11	46
Tetrachloroethene	ug/kg	ND	112	112	89.4	81.7	80	73	10-150	9	48
trans-1,2-Dichloroethene	ug/kg	ND	112	112	87.6	76.4	79	68	20-140	14	42
trans-1,3-Dichloropropene	ug/kg	ND	112	112	96.5	85.9	86	77	10-149	12	41
Trichloroethene	ug/kg	ND	112	112	101	89.5	90	80	14-146	12	45
Vinyl chloride	ug/kg	ND	112	112	76.4	70.9	68	64	19-131	7	37
1,2-Dichloroethane-d4 (S)	%						101	101	75-129		
4-Bromofluorobenzene (S)	%						102	102	76-123		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Ft. Smith Soil
 Pace Project No.: 60176262

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1429864	1429865								
Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual	
Toluene-d8 (S)	%	60176101001					101	100	80-120			

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QUALITY CONTROL DATA

Project: Ft. Smith Soil
 Pace Project No.: 60176262

QC Batch:	PMST/9930	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008		

METHOD BLANK:	1429859	Matrix:	Solid
Associated Lab Samples:	60176262001, 60176262002, 60176262003, 60176262004, 60176262005, 60176262006, 60176262007, 60176262008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/21/14 00:00	

SAMPLE DUPLICATE: 1429860

Parameter	Units	60176101001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.4	10.0	4	20	

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QUALIFIERS

Project: Ft. Smith Soil
Pace Project No.: 60176262

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Soil
 Pace Project No.: 60176262

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60176262001	SED-01-SL-20140820	EPA 8260	MSV/63820		
60176262002	SED-02-SL-20140820	EPA 8260	MSV/63820		
60176262003	SED-03-SL-20140820	EPA 8260	MSV/63820		
60176262004	SED-04-SL-20140820	EPA 8260	MSV/63820		
60176262005	SED-05-SL-20140820	EPA 8260	MSV/63820		
60176262006	SED-06-SL-20140820	EPA 8260	MSV/63820		
60176262007	SED-07-SL-20140820	EPA 8260	MSV/63820		
60176262008	SED-08-SL-20140820	EPA 8260	MSV/63820		
60176262001	SED-01-SL-20140820	ASTM D2974	PMST/9930		
60176262002	SED-02-SL-20140820	ASTM D2974	PMST/9930		
60176262003	SED-03-SL-20140820	ASTM D2974	PMST/9930		
60176262004	SED-04-SL-20140820	ASTM D2974	PMST/9930		
60176262005	SED-05-SL-20140820	ASTM D2974	PMST/9930		
60176262006	SED-06-SL-20140820	ASTM D2974	PMST/9930		
60176262007	SED-07-SL-20140820	ASTM D2974	PMST/9930		
60176262008	SED-08-SL-20140820	ASTM D2974	PMST/9930		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60176262



60176262

Client Name: EnvironCourier: Fed Ex UPS USPS Client Commercial Pace Other VCA

Tracking #: _____

Pace Shipping Label Used? Yes No Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Packing Material: Bubble Wrap Bubble Bags Foam None Other ZIPICThermometer Used: T-239 / T-194Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>KITS</u>
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>24hr</u>
Sufficient volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>SL</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):	<u>208/2114</u>	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>AR</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MWDate: 8/21/14

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																							
Company: Environ	Report To: Wendy Stonestreet	Copy To: Tamara Gleason	Attention: Tamara Gleason																																																																																								
Address: 7500 College Blvd., Ste. 925 Overland Park, KS 66210	Purchase Order No.: wstonestreet@environcorp.com	Project Name: Fort Smith, AR	Company Name: Address:																																																																																								
Email To: wstonestreet@environcorp.com		Project Number: Requested Due Date/TAT: 24 hr TAT	Pace Quote Reference: Pace Project Manager: Pace Profile #: 7444 water, 7709 soil																																																																																								
Phone: 913-553-5926	Fax:																																																																																										
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*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.