August 28, 2014

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

Re: Boys and Girls Club Initial Report of Findings
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, today submitted an Initial Report of Findings to the Executive Director of the Boys and Girls Club summarizing the investigation thus far at the Boys and Girls Club facility located at 6015 Boys and Girls Club Lane in Fort Smith, Arkansas. With this letter, we are also providing this information to the Arkansas Department of Environmental Quality (ADEQ) for regulatory review.

In summary, following a well-defined scientific process, no trichloroethene (TCE) was found in any soil samples or in eight of the nine groundwater samples taken on the Boys and Girls Club property. These results indicate that impacted groundwater only marginally extends beyond the boundaries of the Jenny Lind Road expansion project. The impacted groundwater is only beneath a small corner of the undeveloped piece of the Boys and Girls Club property that will be separated from the rest of the Boys and Girls Club property by the Ingersoll Avenue expansion project.

Additionally, no TCE was detected in a surface water sample collected from the Whirlpool property surface water discharge to the drainage ditch that flows from Jenny Lind Road along the south side of the Boys and Girls Club parking lot. Further, no TCE was detected in sediment samples collected from the drainage ditch.

Thus, with the exception of one groundwater sample taken just off the location of the planned road expansion, no TCE was found in the groundwater, in soils, or in drainage areas on the Boys and Girls Club property. Even in the area where the single sample indicated groundwater with TCE above detection limits, there continues to be no exposure pathway to TCE and thus no health risk to anyone enjoying the Boys and Girls Club facilities or undeveloped fields.

In order to facilitate ongoing monitoring of this location, Whirlpool is requesting access to install four permanent monitoring wells. We propose working with the Boys and Girls Club to select final locations for these wells in areas that meet the scientific objectives to validate the ongoing safety of the area while minimizing any impact on the Boys and Girls Club's intended use of the property. The monitoring well locations will then be submitted to ADEQ for approval before installation. Attached Figure 2 contains proposed locations for permanent monitoring wells.

A Final Northeast Corner Investigation Report will be prepared after the proposed monitoring wells are installed and sampled. This future report will contain all documentation prepared for this investigation including logs for membrane interface probes (MIPs), soil probes and monitoring wells, and laboratory data reports. This future report will be submitted to ADEQ with a copy provided to the Boys and Girls Club.

INVESTIGATION BACKGROUND

The objective of the investigation was to delineate the extent of TCE impact in the soil and groundwater extending north and east from the Whirlpool property. The scope of this investigation was described in a July 29, 2014, letter (July 29 letter) to ADEQ titled *Northeast Corner Supplemental Work Plan* (June 20, 2014, correspondence with ADEQ described the installation of the five new monitoring wells installed on the Whirlpool property which are part of this investigation).

The investigation was performed in two phases. The initial phase consisted of five new groundwater monitoring wells on the Whirlpool property. The second phase included MIPs and soil probes for collection of soil and groundwater samples at locations on the Whirlpool property and at off-site locations on the Boys and Girls Club and City of Fort Smith properties.

Collectively, the investigation included the following:

- Five new groundwater monitoring wells on the Whirlpool property;
- Seventeen MIPs (used for preliminary soil and groundwater screening) on Whirlpool property, Boys and Girls Club property and city of Fort Smith property;
- Fourteen soil probes for collection of soil and groundwater samples on Whirlpool property, Boys and Girls Club property and city of Fort Smith property;
- One surface water sample from the Whirlpool discharge to the drainage ditch; and
- Three sediment samples from the drainage ditch.

The five monitoring wells and 14 soil probes facilitated collection of 44 soil samples and 19 groundwater samples to confirm no impact to soil exists and to delineate the limited extent of groundwater impact extending north and east towards the Boys and Girls Club property.

In addition, surface water and sediment samples were collected from the drainage ditch located at the northeast corner of the intersection of Jenny Lind Road and Ingersoll Avenue. This drainage ditch flows east toward Mill Creek from Ingersoll Avenue and is located south of the Boys and Girls Club parking lot.

RESULTS

A summary of groundwater sample analytical results is provided as Table 1 and Figure 1 depicts the groundwater results for the specific sampling locations.

Phase I

As outlined in the July 29 letter and shown on Figure 1, TCE was not detected in monitoring wells directly north of the northeast corner of the Whirlpool manufacturing building at MW-88 and MW-90. TCE was detected at 19.5 parts per billion (ppb) in groundwater at MW-89, located at the northeast corner of the Whirlpool property. TCE was also detected in groundwater at MW-87 and MW-91, at 564 ppb and 234 ppb, respectively. TCE was not detected in any of the soil samples collected from the soil borings for installation of these five wells (Table 2). The laboratory reports are provided as Attachment A.

Although TCE was detected in groundwater in samples taken from three of these five wells, the TCE concentrations measured in groundwater at the northeast corner are significantly lower than concentrations measure during previous investigations and current monitoring at the northwest corner of the Whirlpool property. In addition, the TCE concentrations in groundwater decreased significantly near the Whirlpool property boundaries.

Phase II

The results of Phase II of the investigation to delineate the extent of TCE impacts in groundwater are depicted on Figure 1. Figure 1 shows two TCE concentration contour lines consisting of non-detect and 5 ppb. The 5 ppb TCE concentration is the Remedial Action Level (RAL) for groundwater at locations beyond the Whirlpool property boundaries [5 ppb is the drinking water criteria established by USEPA identified as the maximum contaminant level (MCL)]. The TCE concentrations in many of the groundwater samples collected from the soil probes were below detection limits. However, the results depicted on Figure 2 indicate that the northwest corner of the Boys and Girls Club property south of the future Ingersoll Avenue road expansion project exhibits TCE impacts in groundwater marginally above the 5 ppb RAL. The TCE concentration in DP-45 located at the northwest corner of this parcel was 6.8 ppb. The only other soil probe location exhibiting a TCE concentration in groundwater exceeding the RAL consisted of DP-42 located west of the Boys and Girls Club property on the City of Ft. Smith property. The TCE concentration at DP-42 was 6.4 ppb.

No TCE or chlorinated solvents have been detected in soil samples collected during the initial or the current phase of the investigation (see Table 2). Low concentrations of acetone (a typical laboratory artifact) and bromomethane and bromoform (inadvertent byproducts of chlorination of drinking water) were detected in soil samples. These constituents are not associated with the Whirlpool property and pose no risks at the concentrations detected in soil samples.

No TCE or chlorinated solvents were detected in a surface water sample collected from the surface water discharge to the drainage ditch during a rain storm on the evening of Monday, August 18, 2014. No TCE or chlorinated solvents were detected in three sediment samples collected from the drainage ditch on Wednesday, August 20, 2014. The sample locations are depicted on Figure 3 and the laboratory results of these samples are summarized on Table 3. The laboratory reports are provided as Attachment A.

In summary, limited TCE impact was discovered in groundwater at concentrations marginally exceeding the RAL. This impact is limited to the northwest corner of the Boys and Girls Club property south of the future expansion of Ingersoll Avenue and to the City of Fort Smith property acquired for the expansion of Jenny Lind Road. No TCE impact was discovered in soil, sediment or surface water during this investigation.

There are no known complete exposure pathways to the impacted groundwater that marginally extends beyond the Whirlpool property boundary to cause health risk concerns.

We request access to install four permanent groundwater monitoring wells at the locations depicted on Figure 2. These permanent groundwater monitoring wells will be used to confirm the results of this investigation and to monitor groundwater in the future for any significant changes in groundwater conditions. These monitoring wells are proposed to be installed as flush-mount wells with bolted covers to preclude access from visitors to the Boys and Girls Club facility. Three of the proposed locations are located in generally inconspicuous locations along the parking lot and at the front entrance to the facility, and one monitoring well is positioned near the future right-of-way along the future Jenny Lind Road expansion project. Assuming we can reach an agreement with the Boys and Girls Club on location and terms of installation of these monitoring wells, and receive approval on these locations from ADEQ, we intend to conduct installation during September 2014.

-oo0oo-

If you have any questions or comments please contact me at your earliest convenience.

Sincerely,

ENVIRON International Corporation

Michael F. Ellis, PE
Principal

LIST OF APPENDICES

Table 1:	Summary of Groundwater Sample Analytical Results
Table 2:	Summary of Soil Sample Analytical Results
Table 3:	Summary of Surface Water and Sediment Results
Figure 1:	Northeast Corner Groundwater Results
Figure 2:	Proposed Monitoring Well Locations
Figure 3:	Surface water and sediment sample locations
Appendix A:	Laboratory Reports (only laboratory reports applicable to the Boys and Girls Club are included)

TABLES

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
Whirlpool Corporation; Fort Smith, AR

Location	Remedial Action Levels per ADEQ RADD Issued 2014	MW-87	MW-88	MW-89	MW-90	MW-91	DP-40	DP-41	DP-42	DP-43	DP-44
ENVIRON Sample ID		20140625-GW-MW-87	20140624-GW-MW-88	20140624-GW-MW-89	20140625-GW-MW-90	20140625-GW-MW-91	DP-40-082014	DP-41-082014	DP-42-082014	DP-43-082014	DP-44-082014
Lab Sample ID		60172431001	60172300001	60172300002	60172431002	60172431003	60175526002	60175526001	60175526003	60175526004	60175526005
Sample Method											
Sample Date		06/25/2014	06/24/2014	06/24/2014	06/25/2014	06/25/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014
Comments											
Volatile Organic Compounds											
Acetone	12000	U (10)	U (10)	U (10)	U (10)	U (10)	7.5 J (10)	5.9 J (10)	6.4 J (10)	6.9 J (10)	U (10)
Benzene	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Bromodichloromethane	80	U (5)	U (5)	U (5)	U (5)	U (5)	7.5 J (5)	5.9 J (5)	6.4 J (5)	6.9 J (5)	U (5)
Bromoform	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Bromomethane	7.0	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)
2-Butanone	4900	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Disulfide	720	U (10)	U (10)	U (10)	3.2 J (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Tetrachloride	5	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chlorobenzene	100	U (5)	U (5)	U (5)	U (5)	U (5)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
Chloroethane	12000	U (10)	U (10)	U (10)	U (10)	U (10)	U (5)	U (5)	U (5)	U (5)	U (5)
Chloroform	80	U (5)	U (5)	U (5)	1.6 J (5)	4.8 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chloromethane	190	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Dibromochloromethane	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethane	2.4	2.1 J (2.4)	U (2.4)	U (2.4)	U (2.4)	0.93 J (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
1,2-Dichloroethane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethene	7.0	5.8 (5)	U (5)	U (5)	U (5)	2.6 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
cis-1,2-Dichloroethene	70	41.8 (5)	U (5)	U (5)	U (5)	21.7 (5)	0.55 J (5)	U (5)	U (5)	U (5)	U (5)
trans-1,2-Dichloroethene	100	4.5 J (5)	U (5)	U (5)	U (5)	2.2 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,2-Dichloropropane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,3-Dichloropropene (total)	0.41	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
cis-1,3-Dichloropropene		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
trans-1,3-Dichloropropene		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
Ethyl Benzene	700	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
2-Hexanone	34	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
4-Methyl-2-pentanone	1000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Methylene Chloride	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Styrene	100	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,2,2-Tetrachloroethane	0.066	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
Tetrachloroethene	5.0	2.6 J (5)	U (5)	U (5)	U (5)	1.1 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Toluene	1000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,1-Trichloroethane	200	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,2-Trichloroethane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Trichloroethene	5.0	564 (50)	U (5)	19.5 (5)	U (5)	234 (25)	3.2 J (5)	U (5)	6.4 (5)	U (5)	U (5)
Vinyl Chloride	2.0	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)
Xylenes (total)	10000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)

Notes:

1 All concentrations are presented in ug/L.
2 Only compounds with at least one detection are shown.
3 Results that exceed the ALs for Fort Smith ADEQ RADD issued Dec 2013 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
( ) -- Detection Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = micrograms per Liter

ENVIRON

TABLE 1
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS
Whirlpool Corporation; Fort Smith, AR

Location	Remedial Action Levels per ADEQ RADD Issued 2014	DP-45	DP-46	DP-47	DP-48	DP-49	DP-50	DP-51	DP-52	DP-53
ENVIRON Sample ID		DP-45-082014	DP-46-082014	DP-47-082014	DP-48-082014	DP-49-GW-20140817	DP-50-082014	DP-51-GW-082014	DP-52-GW-082014	DP-53-GW-082014
Lab Sample ID		60175526006	60175765001	60175765002	60145935001	60176049001	60145935002	60176267001	60176125001	60176267002
Sample Method										
Sample Date		8/11/2014	8/13/2014	8/13/2014	8/15/2014	8/17/2014	8/15/2014	8/20/2014	8/19/2014	8/20/2014
Comments										
Volatile Organic Compounds										
Acetone	12000	U (10)	U (10)	10.8 (10)	9.2 J (10)	U (10)	22.0 (10)	U (10)	16.5 (10)	U (10)
Benzene	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Bromodichloromethane	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	16.5 (5)	U (5)
Bromoform	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Bromomethane	7.0	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)	U (7)
2-Butanone	4900	U (10)	U (10)	U (10)	U (10)	16.4 (10)	6.3 J (10)	U (10)	U (10)	U (10)
Carbon Disulfide	720	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Carbon Tetrachloride	5	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chlorobenzene	100	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
Chloroethane	12000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chloroform	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Chloromethane	190	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Dibromochloromethane	80	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethane	2.4	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)	U (2.4)
1,2-Dichloroethane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1-Dichloroethene	7.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
cis-1,2-Dichloroethene	70	1.3 J (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
trans-1,2-Dichloroethene	100	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,2-Dichloropropane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,3-Dichloropropene (total)	0.41	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
cis-1,3-Dichloropropene		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
trans-1,3-Dichloropropene		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
Ethyl Benzene	700	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
2-Hexanone	34	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
4-Methyl-2-pentanone	1000	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
Methylene Chloride	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Styrene	100	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,2,2-Tetrachloroethane	0.066	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
Tetrachloroethene	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Toluene	1000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,1-Trichloroethane	200	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
1,1,2-Trichloroethane	5.0	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Trichloroethene	5.0	6.8 (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
Vinyl Chloride	2.0	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)
Xylenes (total)	10000	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)

Notes:

1 All concentrations are presented in ug/L.
2 Only compounds with at least one detection are shown.
3 Results that exceed the ALs for Fort Smith ADEQ RADD issued Dec 2013 are double underlined.

Abbreviations:

U -- Not Detected
J -- Estimated Concentration
( ) -- Detection Limit
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
ug/L = micrograms per Liter

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location		MW-87	MW-87	MW-88	MW-89	MW-90	MW-90	MW-91	DP-40	DP-40
ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	MW-87 (15.0 FT) - 062014	MW-87 (4.5 FT) - 062014	MW-88 (12.0 FT) - 062014	MW-89 (17.5 FT) - 062014	MW-90 (14.5 FT) - 062014	MW-90 (20.5 FT) - 062014	MW-91 (12.5 FT) - 062014	DP-40 (4.0 FT) - 082014	DP-40 (11.0 FT) - 082014
Lab Sample ID		60172280002	60172280001	60172176003	60172176004	60172176001	60172176002	60172280003	60175335001	60175335002
Collection Depth (ft bgs)		15	4.5	12	17.5	14.5	20.5	12.5	4.0	11.0
Sample Method										
Sample Date		06/24/2014	06/24/2014	06/23/2014	06/23/2014	06/23/2014	06/23/2014	06/24/2014	8/7/2014	8/7/2014
Comments										
Volatile Organic Compounds										
Acetone	NE	U (0.0169)	0.0259 (0.0177)	U (0.0176)	U (0.0176)	U (0.0203)	U (0.0201)	0.0188 (0.0186)	U (0.0195)	U (0.0177)
Benzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromodichloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromoform	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Bromomethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
2-Butanone	NE	U (0.0084)	U (0.0088)	U (0.0088)	U (0.0088)	U (0.0102)	U (0.01)	U (0.0093)	U (0.0097)	U (0.0089)
Carbon Disulfide	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Carbon Tetrachloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chlorobenzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloroform	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Chloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Dibromochloromethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1-Dichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,2-Dichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
cis-1,2-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
trans-1,2-Dichloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,2-Dichloropropane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,3-Dichloropropene (total)	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
cis-1,3-Dichloropropene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
trans-1,3-Dichloropropene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Ethyl Benzene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
2-Hexanone	NE	U (0.0169)	U (0.0177)	U (0.0176)	U (0.0176)	U (0.0203)	U (0.0201)	U (0.0186)	U (0.0195)	U (0.0177)
4-Methyl-2-pentanone	NE	U (0.0084)	U (0.0088)	U (0.0088)	U (0.0088)	U (0.0102)	U (0.01)	U (0.0093)	U (0.0097)	U (0.0089)
Methylene Chloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Styrene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,2,2-Tetrachloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Tetrachloroethene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Toluene	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,1-Trichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
1,1,2-Trichloroethane	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Trichloroethene	0.129	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Vinyl Chloride	NE	U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)
Xylenes (total)		U (0.0042)	U (0.0044)	U (0.0044)	U (0.0044)	U (0.0051)	U (0.005)	U (0.0047)	U (0.0049)	U (0.0044)

Notes:

1 All concentrations are presented in mg/kg.
2 Only compounds with at least one detection are shown.
3 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-40	DP-41	DP-41	DP-41	DP-42	DP-42	DP-42	DP-43	DP-43	DP-43
ENVIRON Sample ID	DP-40 (14.5 FT) - 082014	DP-41 (4.0 FT) - 082014	DP-41 (10.0 FT) - 082014	DP-41 (14.0 FT) - 082014	DP-42 (4.0 FT) - 082014	DP-42 (8.0 FT) - 082014	DP-42 (12.0 FT) - 082014	DP-43-SL (4.0 FT) - 20140811	DP-43-SL (10.0 FT) - 20140811	DP-43-SL (19.0 FT) - 20140811
Lab Sample ID	60175335003	60175425001	60175425002	60175425003	60175425004	60175425005	60175425006	60175525001	60175525002	60175525003
Collection Depth (ft bgs)	14.5	4.0	10.0	14.0	4.0	8.0	12.0	4.0	10.0	19.0
Sample Method										
Sample Date	8/7/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/11/2014	8/11/2014	8/11/2014
Comments										
Volatile Organic Compounc										
Acetone	U (0.0194)	U (0.0240)	U (0.0182)	U (0.0181)	U (0.0196)	U (0.0185)	U (0.0171)	U (0.0243)	U (0.0173)	U (0.0167)
Benzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromodichloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromoform	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Bromomethane	U (0.0048)	0.0031 J (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
2-Butanone	U (0.0097)	U (0.0120)	U (0.0091)	U (0.0091)	U (0.0098)	U (0.0092)	U (0.0086)	U (0.0121)	U (0.0089)	U (0.0084)
Carbon Disulfide	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Carbon Tetrachloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chlorobenzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloroform	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Chloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Dibromochloromethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1-Dichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,2-Dichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
cis-1,2-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
trans-1,2-Dichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,2-Dichloropropane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,3-Dichloropropene (total)	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
cis-1,3-Dichloropropene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
trans-1,3-Dichloropropene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Ethyl Benzene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
2-Hexanone	U (0.0194)	U (0.0240)	U (0.0182)	U (0.0181)	U (0.0196)	U (0.0185)	U (0.0171)	U (0.0243)	U (0.0173)	U (0.0167)
4-Methyl-2-pentanone	U (0.0097)	U (0.0120)	U (0.0091)	U (0.0091)	U (0.0196)	U (0.0092)	U (0.0086)	U (0.0121)	U (0.0089)	U (0.0084)
Methylene Chloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0098)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Styrene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,2,2-Tetrachloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Tetrachloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Toluene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,1-Trichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
1,1,2-Trichloroethane	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Trichloroethene	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Vinyl Chloride	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)
Xylenes (total)	U (0.0048)	U (0.0060)	U (0.0043)	U (0.0045)	U (0.0049)	U (0.0046)	U (0.0043)	U (0.0061)	U (0.0044)	U (0.0042)

Notes:

1 All concentrations are presented in mg/kg.
2 Only compounds with at least one detection are shown.
3 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-44	DP-44	DP-44	DP-44	DP-45	DP-45	DP-45	DP-46	DP-46	DP-46
ENVIRON Sample ID	DP-44-SL (4.0 FT) - 20140811	DP-44-SL (11.0 FT) - 20140811	DP-44-SL (18.0 FT) - 20140811	DP-44-SL (21.5 FT) - 20140811	DP-45-SL (4.0 FT) - 20140811	DP-45-SL (12.0 FT) - 20140811	DP-45-SL (18.0 FT) - 20140811	DP-46-SL (4.5 FT) - 20140811	DP-46-SL (13.5 FT) - 20140811	DP-46-SL (18.0 FT) - 20140811
Lab Sample ID	60175525004	60175525005	60175525006	60175525007	60175525008	60175525009	60175525008	60175646001	60175646002	60175646003
Collection Depth (ft bgs)	4.0	11.0	18.0	21.5	4.0	12.0	18.0	4.5	13.5	18.0
Sample Method										
Sample Date	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/11/2014	8/12/2014	8/12/2014	8/12/2014
Comments										
Volatile Organic Compounc										
Acetone	U (0.0233)	U (0.0184)	U (0.0196)	U (0.0204)	0.0371 (0.0177)	U (0.0197)	U (0.0180)	U (0.0210)	U (0.0166)	U (0.0167)
Benzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromodichloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromoform	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Bromomethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
2-Butanone	U (0.0117)	U (0.0092)	U (0.0098)	U (0.0102)	U (0.0089)	U (0.0098)	U (0.0090)	U (0.0105)	U (0.0083)	U (0.0083)
Carbon Disulfide	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Carbon Tetrachloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chlorobenzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloroform	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Chloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Dibromochloromethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1-Dichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,2-Dichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
cis-1,2-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
trans-1,2-Dichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,2-Dichloropropane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,3-Dichloropropene (total)	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
cis-1,3-Dichloropropene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
trans-1,3-Dichloropropene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Ethyl Benzene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
2-Hexanone	U (0.0233)	U (0.0184)	U (0.0196)	U (0.0204)	U (0.0177)	U (0.0197)	U (0.0180)	U (0.0210)	U (0.0166)	U (0.0167)
4-Methyl-2-pentanone	U (0.0117)	U (0.0092)	U (0.0098)	U (0.0102)	U (0.0089)	U (0.0098)	U (0.0090)	U (0.0105)	U (0.0083)	U (0.0083)
Methylene Chloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Styrene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,2,2-Tetrachloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Tetrachloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Toluene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,1-Trichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
1,1,2-Trichloroethane	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Trichloroethene	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Vinyl Chloride	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)
Xylenes (total)	U (0.0058)	U (0.0046)	U (0.0049)	U (0.0051)	U (0.0044)	U (0.0049)	U (0.0045)	U (0.0052)	U (0.0042)	U (0.0042)

Notes:

1 All concentrations are presented in mg/kg.
2 Only compounds with at least one detection are shown.
3 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-47	DP-47	DP-48	DP-48	DP-49	DP-49	DP-49	DP-50	DP-50	DP-51
ENVIRON Sample ID	DP-47-SL (5.0 FT) - 20140811	DP-47-SL (22.0 FT) - 20140811	DP-48-SL (4.0 FT) - 20140814	DP-48-SL (11.5 FT) - 20140814	DP-49-SL (4.0 FT) - 20140814	DP-49-SL (10.0 FT) - 20140814	DP-49-SL (13.0 FT) - 20140814	DP-50 - SL (4.0 FT) - 20140814	DP-50 - SL (10.0 FT) - 20140814	DP-51-SL-(1.0) FT - 20140818
Lab Sample ID	60175646004	60175646005	60175927001	60175927002	60175927003	60175927004	60175927005	60175927006	60175927007	60176014001
Collection Depth (ft bgs)	5.0	22.0	4.0	11.5	4.0	10.0	13.0	4.0	10.0	1.0
Sample Method										
Sample Date	8/12/2014	8/12/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/14/2014	8/19/2014
Comments										
Volatile Organic Compounc										
Acetone	U (0.0202)	U (0.0173)	0.0153 J (0.0185)	0.0093 J (0.0172)	0.0154 J (0.0194)	0.0123 J (0.0174)	0.0142 J (0.0226)	U (0.0184)	U (0.0159)	0.0414 (0.0197)
Benzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromodichloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromoform	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Bromomethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
2-Butanone	U (0.0101)	U (0.0087)	U (0.0092)	U (0.0086)	U (0.0097)	U (0.0087)	U (0.0113)	U (0.0092)	U (0.0079)	U (0.0098)
Carbon Disulfide	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Carbon Tetrachloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chlorobenzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloroform	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Chloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Dibromochloromethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1-Dichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,2-Dichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
cis-1,2-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
trans-1,2-Dichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,2-Dichloropropane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,3-Dichloropropene (total)	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
cis-1,3-Dichloropropene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
trans-1,3-Dichloropropene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Ethyl Benzene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
2-Hexanone	U (0.0202)	U (0.0173)	U (0.0185)	U (0.0172)	U (0.0194)	U (0.0174)	U (0.0226)	U (0.0184)	U (0.0159)	U (0.0197)
4-Methyl-2-pentanone	U (0.0101)	U (0.0087)	U (0.0092)	U (0.0086)	U (0.0097)	U (0.0087)	U (0.0113)	U (0.0092)	U (0.0079)	U (0.0098)
Methylene Chloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Styrene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,2,2-Tetrachloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Tetrachloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Toluene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,1-Trichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
1,1,2-Trichloroethane	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Trichloroethene	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Vinyl Chloride	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)
Xylenes (total)	U (0.0050)	U (0.0043)	U (0.0046)	U (0.0043)	U (0.0048)	U (0.0043)	U (0.0056)	U (0.0046)	U (0.0040)	U (0.0049)

Notes:

1 All concentrations are presented in mg/kg.
2 Only compounds with at least one detection are shown.
3 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environmental Quality
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - NORTHEAST CORNER
Whirlpool Corporation; Fort Smith, AR

Location	DP-51	DP-52	DP-52	DP-53	DP-53
ENVIRON Sample ID	DP-51-SL-(14.0 FT) - 20140818	DP-52-SL-(4.0 FT) - 20140818	DP-52-SL-(11.0 FT) - 20140818	DP-53-SL-(1.0 FT) - 20140818	DP-53-SL-(8.5 FT) - 20140818
Lab Sample ID	60176014002	60176014003	60176014004	60176014004	60176014005
Collection Depth (ft bgs)	14.0	4.0	11.0	1.0	8.5
Sample Method					
Sample Date	8/19/2014	8/19/2014	8/19/2014	8/19/2014	8/19/2014
Comments					
Volatile Organic Compounc					
Acetone	U (0.0159)	0.0202 (0.0185)	0.0094 J (0.0164)	0.0587 (0.0179)	0.0101 (0.0177)
Benzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromodichloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromoform	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Bromomethane	0.0081 (0.0040)	0.0093 (0.0046)	U (0.0041)	0.0093 (0.0045)	U (0.0044)
2-Butanone	U (0.0079)	U (0.0093)	U (0.0093)	0.0063 J (0.0082)	U (0.0089)
Carbon Disulfide	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Carbon Tetrachloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chlorobenzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloroform	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Chloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Dibromochloromethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1-Dichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,2-Dichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
cis-1,2-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
trans-1,2-Dichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,2-Dichloropropane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,3-Dichloropropene (total)	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
cis-1,3-Dichloropropene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
trans-1,3-Dichloropropene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Ethyl Benzene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
2-Hexanone	U (0.0159)	U (0.0185)	U (0.0164)	U (0.0179)	U (0.0177)
4-Methyl-2-pentanone	U (0.0079)	U (0.0093)	U (0.0093)	U (0.0082)	U (0.0089)
Methylene Chloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Styrene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,2,2-Tetrachloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Tetrachloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Toluene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,1-Trichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
1,1,2-Trichloroethane	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Trichloroethene	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Vinyl Chloride	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)
Xylenes (total)	U (0.0040)	U (0.0046)	U (0.0041)	U (0.0045)	U (0.0044)

Notes:

1 All concentrations are presented in mg/kg.
2 Only compounds with at least one detection are shown.
3 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Detection Limit.
RADD -- Remedial Action Decision Document
ADEQ -- Arkansas Department of Environme
mg/kg = miligram per kilogram
NE = Not Established

ENVIRON

TABLE 3
SUMMARY OF SURFACE WATER AND SEDIMENT RESULTS
Whirlpool Corporation; Fort Smith, AR

Location		SED-01	SED-02	SED-03	NE- MANHOLE*
ENVIRON Sample ID	Remedial Action Levels per ADEQ RADD Issued 2014	SED-01-SL-20140820	SED-02-SL-20140820	SED-03-SL-20140820	NE-MANHOLE-SW-20140818
Lab Sample ID		60176262001	60176262002	60176262003	60176049002
Sample Method					
Sample Date		8/20/2014	8/20/2014	8/20/2014	8/18/2014
Comments					
Volatile Organic Compounds					
Bromodichloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Carbon Tetrachloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Chlorobenzene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Chloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (10.0)
Chloroform	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Chloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (10.0)
Dibromochloromethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (2.4)
1,1-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,2-Dichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,1-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
cis-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
trans-1,2-Dichloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,2-Dichloropropane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
cis-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (1.0)
trans-1,3-Dichloropropene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Methylene Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,1,2,2-Tetrachloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Tetrachloroethene	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,1,1-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
1,1,2-Trichloroethane	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Trichloroethene	0.129	U (0.0055)	U (0.0065)	U (0.0045)	U (5.0)
Vinyl Chloride	NE	U (0.0055)	U (0.0065)	U (0.0045)	U (2.0)

Notes:

1 All concentrations are presented in mg/kg except where noted with an asterick (*) by sample location.
2 None of the detected concentration exceed the ALs for Fort Smith ADEQ RADD issued December 2013.
3 * Locations are presented in ug/L.

ENVIRON

FIGURES

FILE: D:\GIS\PROJECT\WHIRLPOOL\DOCs\20140801_LLMIHPT\NE-BnGelub Report\Figure 1 - NE Corner TCE Iso Map 20140825.mxd

MW-60
MW-61
MW-67
MW-66
MW-57
MW-56
MW-62
MW-63
MW-319
MW-90 (ND)
MW-88 (ND)
MW-89 (19.5 µg/L)
MW-22
MW-87 (564 µg/L)
MW-91 (234 µg/L)
M-300
M-301
M-302
DP-50 (ND)
M-328
DP-49 (ND)
M-327
DP-52 (ND)
M-332
DP-53 (ND)
M-333
DP-51 (ND)
M-331
DP-48 (ND)
M-326A
DP-42 (6.4 µg/L)
M-314
DP-40 (3.2 µg/L)
M-312
DP-41 (ND)
M-313
DP-45 (6.8 µg/L)
M-317
DP-46 (ND)
M-318
DP-44 (ND)
M-315
DP-43 (ND)
M-316
ND
5 µg/L
WESTPHAL INVESTMENT MANAGEMENT
FARMER, SHIRLEY A REVOCABLE TRUST
BOST HUMAN DEVELOPMENT SERVICES
JARRETT FAMILY TRUST
NEWBOLD, WILLIAM R LIVING TRUST
REITH PROPERTIES LLC
BREEDEN'S AUTO & BOAT SALES, I
TAYLOR, ALAN & NATASHA
KRALICEK & FLUSCHE LLC
PRZYBYSZ, JOHN
MAHAM, LLC
CITY OF FORT SMITH
PRZYBYSZ, JOHN L
MORGAN, WANDA M
SCROGGINS, CAROL S ET AL
MATHEWS, WILLIAM D & MYRNA M MATHEW
POTTS FAMILY ENTERPRISES, LLC
CORLEY, HAROLD & VERNA
BREEDEN, CLOVIS & MARTHA
Jacobs Ave
Boys Club Ln
Jenny Lind Rd
SEBASTIAN COUNTY, ARKANSAS
WESTPHAL, ROBERT, BETSY, BENNIE & R
LINSON, LARRY
KEITH, DEBRA E
LONG, OSCAR T JR, DELMAR LONG
WILSON, GLENDA VAUGHT
LOVE, DAVID & BECKY
RIEDER, SHIRLEY A
GAMBLE, MARK MIGUEL
CITY OF FORT SMITH
Ingersoll Ave
Ingersoll Ave (Proposed)
FORT SMITH BOYS & GIRLS CLUBS
WHIRLPOOL CORPORATION
ANDERSON, WOODROW JR
RIVERSIDE FURNITURE CORP
THE CITY OF FORT SMITH, ARKANSAS

0 200 400
Feet
1 inch = 200 feet

Notes:
- MW-87 to MW-91 sampled June 25 and 26, 2014.
- DP locations sampled August 2014.
- ND Contour (Non Detect < 1 µg/L). Dashed were inferred.
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.
- Areas depicted are approximate and for planning purposes only
- Parcel boundaries and database updated May 2014
- 2006 aerial photograph (Source: USGS)

Boring Location (Completed August 2014)
- DP - Direct Push (Soil/GW)
- MIP - Membrane Interface Probe

Boring Location (Completed September 2013 through January 2014)
- MIP - Membrane Interface Probe
- DP - Direct Push (Soil/GW)

Existing Monitoring Well Location

Trichloroethene (TCE) Isocontour
- TCE in Groundwater
- TCE in Groundwater (dashed where inferred)

ENVIRON

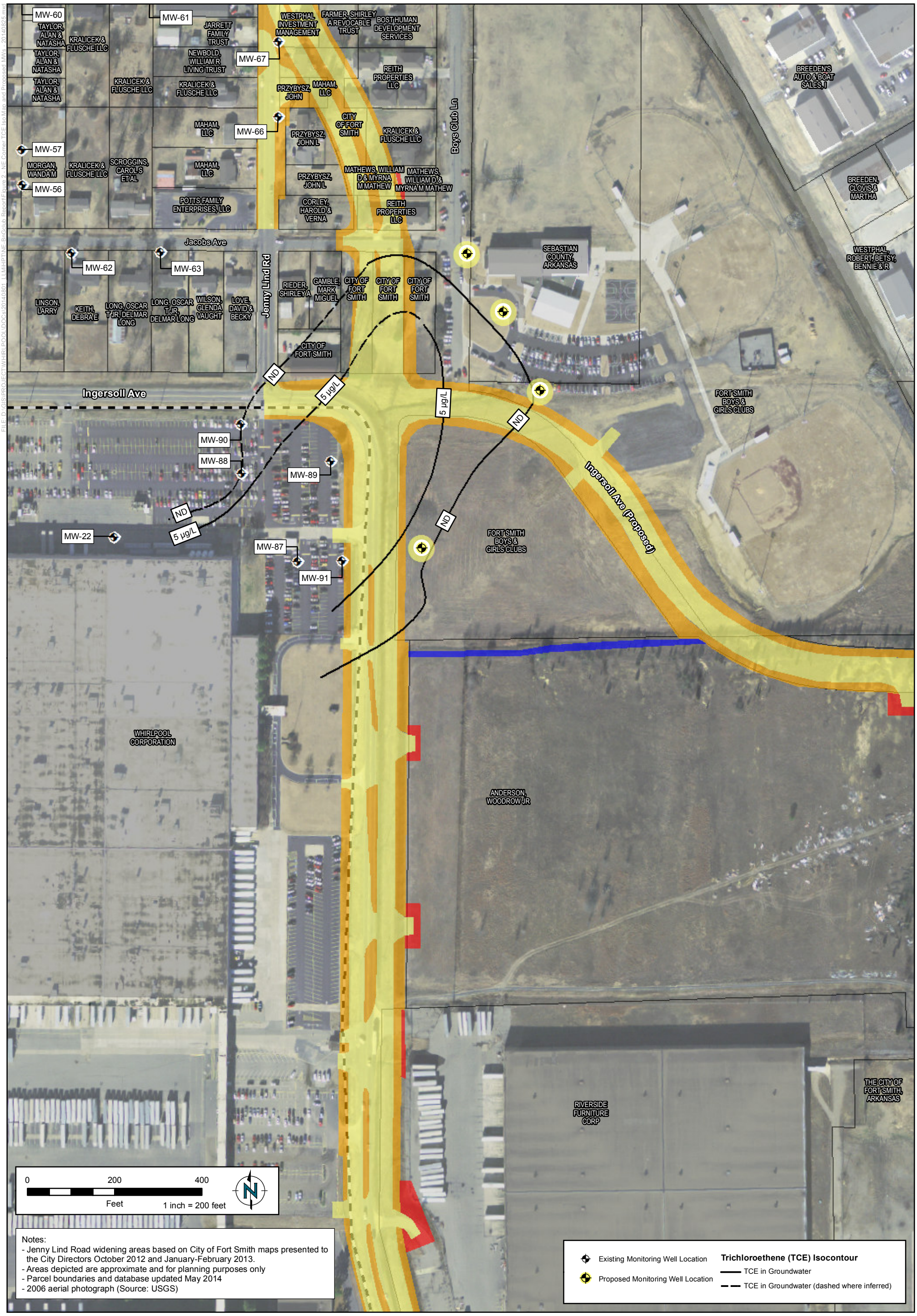
DRAFTED BY: KTS | DATE: 08/25/2014

TCE ISOCONCENTRATION MAP
MIP, DP AND EXISTING MONITORING WELL LOCATIONS

Whirlpool Facility - Fort Smith, Arkansas

Figure 1

PROJECT: 3434446A



Notes:
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.
- Areas depicted are approximate and for planning purposes only
- Parcel boundaries and database updated May 2014
- 2006 aerial photograph (Source: USGS)

ENVIRON

DRAFTED BY: KTS | DATE: 08/25/2014

TCE ISOCONCENTRATION MAP AND PROPOSED MONITORING WELL LOCATIONS MIP, DP AND EXISTING MONITORING WELL LOCATIONS

Whirlpool Facility - Fort Smith, Arkansas

Figure 2

PROJECT: 3434446A

Jacobs Ave

Jenny Lind Rd

Boys Club Ln

Ingersoll Ave

SED-03

SED-01

SED-02

NE-Manhole-SW

Ingersoll Ave (Proposed)

Jenny Lind Rd

0 200 400

Feet

1 inch = 200 feet

Notes:
- Surface and sediment samples collected August 2014.
- Jenny Lind Road widening areas based on City of Fort Smith maps presented to the City Directors October 2012 and January-February 2013.
- Areas depicted are approximate and for planning purposes only
- Parcel boundaries and database updated May 2014
- 2006 aerial photograph (Source: USGS)

Surface Water and Sediment Sample Locations

- Sediment Sample
- Surface Water Sample
- Approximate Property Boundary

ENVIRON

DRAFTED BY: KTS | DATE: 08/25/2014

SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS

Whirlpool Facility - Fort Smith, Arkansas

Figure 3

PROJECT: 3434446A

APPENDIX A: Laboratory Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 15, 2014

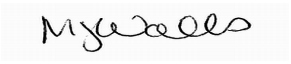
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60172176

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172176

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172176001	**MW-90 (14.5 FT) - 062014**	Solid	06/23/14 11:20	06/24/14 01:48
60172176002	**MW-90 (20.5 FT) - 062014**	Solid	06/23/14 11:45	06/24/14 01:48
60172176003	**MW-88 (12.0 FT) - 062014**	Solid	06/23/14 08:50	06/24/14 01:48
60172176004	**MW-89 (17.5 FT) - 062014**	Solid	06/23/14 14:00	06/24/14 01:48
60172176005	**TRIP BLANK 01 - 062014**	Solid	06/23/14 08:50	06/24/14 01:48

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172176001	**MW-90 (14.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176002	**MW-90 (20.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176003	**MW-88 (12.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176004	**MW-89 (17.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172176005	**TRIP BLANK 01 - 062014**	EPA 8260	JKL	37

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172176

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 15, 2014

General Information:
5 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.

QC Batch: MSV/62527

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-90 (14.5 FT) - 062014 **Lab ID: 60172176001** Collected: 06/23/14 11:20 Received: 06/24/14 01:48 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								
Acetone	ND	ug/kg	20.3	10.2	1		06/24/14 19:09	67-64-1	
Benzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	71-43-2	
Bromodichloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-27-4	
Bromoform	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-25-2	
Bromomethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.2	5.1	1		06/24/14 19:09	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-00-3	
Chloroform	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	67-66-3	
Chloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	74-87-3	
Dibromochloromethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	100-41-4	
2-Hexanone	ND	ug/kg	20.3	10.2	1		06/24/14 19:09	591-78-6	
Methylene chloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	5.1	1		06/24/14 19:09	108-10-1	
Styrene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	127-18-4	
Toluene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-00-5	
Trichloroethene	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	79-01-6	
Vinyl chloride	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	75-01-4	
Xylene (Total)	ND	ug/kg	5.1	2.5	1		06/24/14 19:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	80-120		1		06/24/14 19:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		06/24/14 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		06/24/14 19:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-90 (20.5 FT) - 062014 **Lab ID: 60172176002** Collected: 06/23/14 11:45 Received: 06/24/14 01:48 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								
Acetone	ND	ug/kg	20.1	10.0	1		06/24/14 19:24	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		06/24/14 19:24	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	100-41-4	
2-Hexanone	ND	ug/kg	20.1	10.0	1		06/24/14 19:24	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		06/24/14 19:24	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		06/24/14 19:24	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		06/24/14 19:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		06/24/14 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		06/24/14 19:24	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.4**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-88 (12.0 FT) - 062014 **Lab ID: 60172176003** Collected: 06/23/14 08:50 Received: 06/24/14 01:48 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								
Acetone	ND	ug/kg	17.6	8.8	1		06/24/14 19:40	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	100-41-4	
2-Hexanone	ND	ug/kg	17.6	8.8	1		06/24/14 19:40	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:40	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		06/24/14 19:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		06/24/14 19:40	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		06/24/14 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		06/24/14 19:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.2**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: MW-89 (17.5 FT) - 062014 **Lab ID: 60172176004** Collected: 06/23/14 14:00 Received: 06/24/14 01:48 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								
Acetone	ND	ug/kg	17.6	8.8	1		06/24/14 19:55	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:55	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	100-41-4	
2-Hexanone	ND	ug/kg	17.6	8.8	1		06/24/14 19:55	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		06/24/14 19:55	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		06/24/14 19:55	1330-20-7	
Surrogates									
Toluene-d8 (S)	98	%	80-120		1		06/24/14 19:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		06/24/14 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		06/24/14 19:55	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.7**	%	0.50	0.50	1		06/25/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172176

Sample: TRIP BLANK 01 - 062014 **Lab ID: 60172176005** Collected: 06/23/14 08:50 Received: 06/24/14 01:48 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		06/24/14 20:10	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		06/24/14 20:10	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		06/24/14 20:10	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		06/24/14 20:10	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		06/24/14 20:10	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%	80-120		1		06/24/14 20:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		06/24/14 20:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	75-129		1		06/24/14 20:10	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

QC Batch: MSV/62527 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004, 60172176005

METHOD BLANK: 1400132 Matrix: Solid
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004, 60172176005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1-Dichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,1-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloroethane	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloropropane	ug/kg	ND	5.0	06/24/14 17:37	
2-Butanone (MEK)	ug/kg	ND	10.0	06/24/14 17:37	
2-Hexanone	ug/kg	ND	20.0	06/24/14 17:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/24/14 17:37	
Acetone	ug/kg	ND	20.0	06/24/14 17:37	
Benzene	ug/kg	ND	5.0	06/24/14 17:37	
Bromodichloromethane	ug/kg	ND	5.0	06/24/14 17:37	
Bromoform	ug/kg	ND	5.0	06/24/14 17:37	
Bromomethane	ug/kg	ND	5.0	06/24/14 17:37	
Carbon disulfide	ug/kg	ND	5.0	06/24/14 17:37	
Carbon tetrachloride	ug/kg	ND	5.0	06/24/14 17:37	
Chlorobenzene	ug/kg	ND	5.0	06/24/14 17:37	
Chloroethane	ug/kg	ND	5.0	06/24/14 17:37	
Chloroform	ug/kg	ND	5.0	06/24/14 17:37	
Chloromethane	ug/kg	ND	5.0	06/24/14 17:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/24/14 17:37	
Dibromochloromethane	ug/kg	ND	5.0	06/24/14 17:37	
Ethylbenzene	ug/kg	ND	5.0	06/24/14 17:37	
Methylene chloride	ug/kg	ND	5.0	06/24/14 17:37	
Styrene	ug/kg	ND	5.0	06/24/14 17:37	
Tetrachloroethene	ug/kg	ND	5.0	06/24/14 17:37	
Toluene	ug/kg	ND	5.0	06/24/14 17:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/24/14 17:37	
Trichloroethene	ug/kg	ND	5.0	06/24/14 17:37	
Vinyl chloride	ug/kg	ND	5.0	06/24/14 17:37	
Xylene (Total)	ug/kg	ND	5.0	06/24/14 17:37	
1,2-Dichloroethane-d4 (S)	%	93	75-129	06/24/14 17:37	
4-Bromofluorobenzene (S)	%	97	76-123	06/24/14 17:37	
Toluene-d8 (S)	%	97	80-120	06/24/14 17:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

LABORATORY CONTROL SAMPLE: 1400133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	97.6	98	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	93.3	93	73-120	
1,1,2-Trichloroethane	ug/kg	100	92.9	93	76-120	
1,1-Dichloroethane	ug/kg	100	92.9	93	71-120	
1,1-Dichloroethene	ug/kg	100	94.6	95	76-130	
1,2-Dichloroethane	ug/kg	100	94.1	94	78-120	
1,2-Dichloropropane	ug/kg	100	91.8	92	80-120	
2-Butanone (MEK)	ug/kg	500	445	89	55-135	
2-Hexanone	ug/kg	500	473	95	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	450	90	71-128	
Acetone	ug/kg	500	515	103	43-144	
Benzene	ug/kg	100	89.3	89	80-120	
Bromodichloromethane	ug/kg	100	94.1	94	80-120	
Bromoform	ug/kg	100	102	102	75-124	
Bromomethane	ug/kg	100	136	136	38-150	
Carbon disulfide	ug/kg	100	112	112	58-137	
Carbon tetrachloride	ug/kg	100	97.6	98	75-140	
Chlorobenzene	ug/kg	100	97.4	97	80-120	
Chloroethane	ug/kg	100	100	100	65-127	
Chloroform	ug/kg	100	92.2	92	74-120	
Chloromethane	ug/kg	100	115	115	39-138	
cis-1,2-Dichloroethene	ug/kg	100	95.2	95	76-124	
cis-1,3-Dichloropropene	ug/kg	100	90.5	90	82-120	
Dibromochloromethane	ug/kg	100	102	102	80-124	
Ethylbenzene	ug/kg	100	99.4	99	80-120	
Methylene chloride	ug/kg	100	111	111	70-123	
Styrene	ug/kg	100	97.0	97	79-120	
Tetrachloroethene	ug/kg	100	99.6	100	78-128	
Toluene	ug/kg	100	92.7	93	79-120	
trans-1,2-Dichloroethene	ug/kg	100	92.2	92	76-124	
trans-1,3-Dichloropropene	ug/kg	100	97.4	97	80-124	
Trichloroethene	ug/kg	100	90.5	90	80-120	
Vinyl chloride	ug/kg	100	104	104	57-132	
Xylene (Total)	ug/kg	300	289	96	79-120	
1,2-Dichloroethane-d4 (S)	%			97	75-129	
4-Bromofluorobenzene (S)	%			101	76-123	
Toluene-d8 (S)	%			99	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172176

QC Batch: PMST/9762 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004

METHOD BLANK: 1400483 Matrix: Solid
Associated Lab Samples: 60172176001, 60172176002, 60172176003, 60172176004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/25/14 00:00	

SAMPLE DUPLICATE: 1400484

Parameter	Units	60171944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.6	23.0	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60172176

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/62527

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60172176

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172176001	**MW-90 (14.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176002	**MW-90 (20.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176003	**MW-88 (12.0 FT) - 062014**	EPA 8260	MSV/62527		
60172176004	**MW-89 (17.5 FT) - 062014**	EPA 8260	MSV/62527		
60172176005	**TRIP BLANK 01 - 062014**	EPA 8260	MSV/62527		
60172176001	**MW-90 (14.5 FT) - 062014**	ASTM D2974	PMST/9762		
60172176002	**MW-90 (20.5 FT) - 062014**	ASTM D2974	PMST/9762		
60172176003	**MW-88 (12.0 FT) - 062014**	ASTM D2974	PMST/9762		
60172176004	**MW-89 (17.5 FT) - 062014**	ASTM D2974	PMST/9762		

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt

WO#:60172176

60172176

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VIA

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 ☑ ZPlc

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV

Chain of Custody present:	☑Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☑Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☑Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☑Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes	☐No	☐N/A	6. Kits
Rush Turn Around Time requested:	☑Yes	☐No	☐N/A	7. 1Day
Sufficient volume:	☑Yes	☐No	☐N/A	8.
Correct containers used:	☑Yes	☐No	☐N/A	
Pace containers used:	☑Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☑N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: ~~WT~~ SL PV 6/24/14				13.
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	14.
Exceptions: (VOA,) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 111813-3				15.
Headspace in VOA vials (>6mm):	☐Yes	☐No	☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☑No	☐N/A	17. List State: AR

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

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: Held per Tamara Gleason pending rush water results mw 6/24/14

Project Manager Review: mw Date: 6/24/14

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925 Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone:	913-553-5926
Fax:	
Requested Due Date/TAT:	1-Day TAT

Section B — Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	3433233A

Section C — Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./Lab I.D.: 60172176

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	MW-90 (14.5 FT)-062014	SL	G			6/23/14	1120		5	X						X	X	X		2VG9U 1BP8U 001
2	MW-90 (20.5 FT)-062014	↓	↓			↓	1145		↓	↓						↓	↓	↓		002
3	MW-88 (12.0 FT)-062014	↓	↓			↓	0850		↓	↓						↓	↓	↓		003
4	MW-89 (17.5 FT)-062014	↓	↓			↓	1400		↓	↓						↓	↓	↓		004
5	Trip Blank 01-062014								2	↓			2VG9U					↓		RV 6/24/14 005
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Handwritten in analysis columns: 1D9M 1D64B (RV 6/24/14)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-Day TAT	[signature] / ENVIRON	6/23/14	1900	[signature] PASI	6/24	0148	2-4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/23/14

SAMPLE CONDITIONS

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 17, 2014

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

RE: Project: FORT SMITH, AR
Pace Project No.: 60172280

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 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.

Amended report revised to correct for reporting TCE sample 60172280010.

Amended report, REV-2 on 7/16/14, to add additional sample testing per the clients requet.

Amended report, REV-3 on 7/17/14, to add additional sample testing per the clients requets.

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172280

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172280001	**MW-87 (4.5 FT) - 062014**	Solid	06/24/14 07:40	06/25/14 08:15
60172280002	**MW-87 (15.0 FT) - 062014**	Solid	06/24/14 07:55	06/25/14 08:15
60172280003	**MW-91 (12.5 FT) - 062014**	Solid	06/24/14 09:56	06/25/14 08:15
60172280004	**DP-23 (4.5 FT) - 062014**	Solid	06/24/14 13:20	06/25/14 08:15
60172280005	**DP-23 (10.0 FT) - 062014**	Solid	06/24/14 13:35	06/25/14 08:15
60172280006	**DP-23 (15.0 FT) - 062014**	Solid	06/24/14 13:40	06/25/14 08:15
60172280007	**DP-23 (17.5 FT) - 062014**	Solid	06/24/14 13:55	06/25/14 08:15
60172280008	**DP-23 (20.5 FT) - 062014**	Solid	06/24/14 14:10	06/25/14 08:15
60172280009	**DP-28 (4.5 FT) - 062014**	Solid	06/24/14 14:50	06/25/14 08:15
60172280010	**DP-28 (7.5 FT) - 062014**	Solid	06/24/14 15:00	06/25/14 08:15
60172280011	**DP-28 (12.0 FT) - 062014**	Solid	06/24/14 15:10	06/25/14 08:15
60172280012	**DP-28 (17.0 FT) - 062014**	Solid	06/24/14 15:20	06/25/14 08:15
60172280013	**DP-28 (20.5 FT) - 062015**	Solid	06/24/14 15:40	06/25/14 08:15
60172280014	**DP-28 (26.5 FT) - 062014**	Solid	06/24/14 15:50	06/25/14 08:15
60172280015	**TRIP BLANK 02 - 062014**	Solid	06/24/14 07:40	06/25/14 08:15

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172280001	**MW-87 (4.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280002	**MW-87 (15.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280003	**MW-91 (12.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	JKL	37
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	JKL	37
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	JKL	37
		ASTM D2974	DWC	1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 17, 2014

General Information:
12 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.

H1: Analysis conducted outside the EPA method holding time.
- MW-87 (15.0 FT) - 062014 (Lab ID: 60172280002)
- MW-87 (4.5 FT) - 062014 (Lab ID: 60172280001)
- MW-91 (12.5 FT) - 062014 (Lab ID: 60172280003)

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/62575

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

QC Batch: MSV/62603

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

QC Batch: MSV/62998

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

Additional Comments:

Sample Comments:

Analyzed outside of holding time per the clients request.
- MW-87 (4.5 FT) - 062014 (Lab ID: 60172280001)

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: July 17, 2014

Sample Comments:

Analyzed outside of holding time per the clients request.
- MW-87 (15.0 FT) - 062014 (Lab ID: 60172280002)

Analysis performed outside of holding time per the clients request.
- DP-23 (4.5 FT) - 062014 (Lab ID: 60172280004)
- DP-23 (15.0 FT) - 062014 (Lab ID: 60172280006)
- DP-28 (4.5 FT) - 062014 (Lab ID: 60172280009)
- DP-28 (12.0 FT) - 062014 (Lab ID: 60172280011)
- DP-28 (17.0 FT) - 062014 (Lab ID: 60172280012)

Analyte Comments:

QC Batch: MSV/62575

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DP-23 (10.0 FT) - 062014 (Lab ID: 60172280005)
  - Vinyl chloride
- DP-28 (7.5 FT) - 062014 (Lab ID: 60172280010)
  - Vinyl chloride

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Sample: MW-87 (4.5 FT) - 062014 **Lab ID: 60172280001** Collected: 06/24/14 07:40 Received: 06/25/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis
Comments: • Analyzed outside of holding time per the clients request.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	**25.9**	ug/kg	17.7	8.8	1		07/15/14 18:19	67-64-1	H1
Benzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-27-4	H1
Bromoform	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-25-2	H1
Bromomethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	8.8	4.4	1		07/15/14 18:19	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	108-90-7	H1
Chloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-00-3	H1
Chloroform	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	67-66-3	H1
Chloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	100-41-4	H1
2-Hexanone	ND	ug/kg	17.7	8.8	1		07/15/14 18:19	591-78-6	H1
Methylene chloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	4.4	1		07/15/14 18:19	108-10-1	H1
Styrene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	127-18-4	H1
Toluene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-00-5	H1
Trichloroethene	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.4	2.2	1		07/15/14 18:19	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		07/15/14 18:19	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		07/15/14 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129		1		07/15/14 18:19	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.7**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Sample: MW-87 (15.0 FT) - 062014 **Lab ID: 60172280002** Collected: 06/24/14 07:55 Received: 06/25/14 08:15 Matrix: Solid

Results reported on a "dry-weight" basis
Comments: • Analyzed outside of holding time per the clients request.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	16.9	8.4	1		07/15/14 18:34	67-64-1	H1
Benzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-27-4	H1
Bromoform	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-25-2	H1
Bromomethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	8.4	4.2	1		07/15/14 18:34	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	108-90-7	H1
Chloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-00-3	H1
Chloroform	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	67-66-3	H1
Chloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	100-41-4	H1
2-Hexanone	ND	ug/kg	16.9	8.4	1		07/15/14 18:34	591-78-6	H1
Methylene chloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.4	4.2	1		07/15/14 18:34	108-10-1	H1
Styrene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	127-18-4	H1
Toluene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-00-5	H1
Trichloroethene	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.2	2.1	1		07/15/14 18:34	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		07/15/14 18:34	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		07/15/14 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	75-129		1		07/15/14 18:34	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.3**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172280

Sample: MW-91 (12.5 FT) - 062014 **Lab ID: 60172280003** Collected: 06/24/14 09:56 Received: 06/25/14 08:15 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								
Acetone	**18.8**	ug/kg	18.6	9.3	1		07/15/14 18:49	67-64-1	H1
Benzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	71-43-2	H1
Bromodichloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-27-4	H1
Bromoform	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-25-2	H1
Bromomethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	74-83-9	H1
2-Butanone (MEK)	ND	ug/kg	9.3	4.7	1		07/15/14 18:49	78-93-3	H1
Carbon disulfide	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-15-0	H1
Carbon tetrachloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	56-23-5	H1
Chlorobenzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	108-90-7	H1
Chloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-00-3	H1
Chloroform	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	67-66-3	H1
Chloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	74-87-3	H1
Dibromochloromethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	124-48-1	H1
1,1-Dichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-34-3	H1
1,2-Dichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	107-06-2	H1
1,1-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-35-4	H1
cis-1,2-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	156-59-2	H1
trans-1,2-Dichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	156-60-5	H1
1,2-Dichloropropane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	78-87-5	H1
cis-1,3-Dichloropropene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	10061-01-5	H1
trans-1,3-Dichloropropene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	10061-02-6	H1
Ethylbenzene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	100-41-4	H1
2-Hexanone	ND	ug/kg	18.6	9.3	1		07/15/14 18:49	591-78-6	H1
Methylene chloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-09-2	H1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.3	4.7	1		07/15/14 18:49	108-10-1	H1
Styrene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	100-42-5	H1
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-34-5	H1
Tetrachloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	127-18-4	H1
Toluene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	108-88-3	H1
1,1,1-Trichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	71-55-6	H1
1,1,2-Trichloroethane	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-00-5	H1
Trichloroethene	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	79-01-6	H1
Vinyl chloride	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	75-01-4	H1
Xylene (Total)	ND	ug/kg	4.7	2.3	1		07/15/14 18:49	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		07/15/14 18:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		07/15/14 18:49	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	75-129		1		07/15/14 18:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.5**	%	0.50	0.50	1		07/16/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62575 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

METHOD BLANK: 1400840 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1-Dichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,1-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloroethane	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloropropane	ug/kg	ND	5.0	06/25/14 16:48	
2-Butanone (MEK)	ug/kg	ND	10.0	06/25/14 16:48	
2-Hexanone	ug/kg	ND	20.0	06/25/14 16:48	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	06/25/14 16:48	
Acetone	ug/kg	ND	20.0	06/25/14 16:48	
Benzene	ug/kg	ND	5.0	06/25/14 16:48	
Bromodichloromethane	ug/kg	ND	5.0	06/25/14 16:48	
Bromoform	ug/kg	ND	5.0	06/25/14 16:48	
Bromomethane	ug/kg	2.7J	5.0	06/25/14 16:48	
Carbon disulfide	ug/kg	ND	5.0	06/25/14 16:48	
Carbon tetrachloride	ug/kg	ND	5.0	06/25/14 16:48	
Chlorobenzene	ug/kg	ND	5.0	06/25/14 16:48	
Chloroethane	ug/kg	ND	5.0	06/25/14 16:48	
Chloroform	ug/kg	ND	5.0	06/25/14 16:48	
Chloromethane	ug/kg	ND	5.0	06/25/14 16:48	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/25/14 16:48	
Dibromochloromethane	ug/kg	ND	5.0	06/25/14 16:48	
Ethylbenzene	ug/kg	ND	5.0	06/25/14 16:48	
Methylene chloride	ug/kg	ND	5.0	06/25/14 16:48	
Styrene	ug/kg	ND	5.0	06/25/14 16:48	
Tetrachloroethene	ug/kg	ND	5.0	06/25/14 16:48	
Toluene	ug/kg	ND	5.0	06/25/14 16:48	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/25/14 16:48	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/25/14 16:48	
Vinyl chloride	ug/kg	ND	5.0	06/25/14 16:48	
Xylene (Total)	ug/kg	ND	5.0	06/25/14 16:48	
1,2-Dichloroethane-d4 (S)	%	99	75-129	06/25/14 16:48	
4-Bromofluorobenzene (S)	%	99	76-123	06/25/14 16:48	
Toluene-d8 (S)	%	100	80-120	06/25/14 16:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

LABORATORY CONTROL SAMPLE: 1400841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.5	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.4	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	90.0	90	76-120	
1,1-Dichloroethane	ug/kg	100	86.5	87	71-120	
1,1-Dichloroethene	ug/kg	100	85.8	86	76-130	
1,2-Dichloroethane	ug/kg	100	89.2	89	78-120	
1,2-Dichloropropane	ug/kg	100	86.4	86	80-120	
2-Butanone (MEK)	ug/kg	500	402	80	55-135	
2-Hexanone	ug/kg	500	446	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	411	82	71-128	
Acetone	ug/kg	500	466	93	43-144	
Benzene	ug/kg	100	86.2	86	80-120	
Bromodichloromethane	ug/kg	100	90.4	90	80-120	
Bromoform	ug/kg	100	98.3	98	75-124	
Bromomethane	ug/kg	100	128	128	38-150	
Carbon disulfide	ug/kg	100	103	103	58-137	
Carbon tetrachloride	ug/kg	100	87.9	88	75-140	
Chlorobenzene	ug/kg	100	90.4	90	80-120	
Chloroethane	ug/kg	100	93.8	94	65-127	
Chloroform	ug/kg	100	86.0	86	74-120	
Chloromethane	ug/kg	100	105	105	39-138	
cis-1,2-Dichloroethene	ug/kg	100	89.7	90	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.1	84	82-120	
Dibromochloromethane	ug/kg	100	93.6	94	80-124	
Ethylbenzene	ug/kg	100	89.0	89	80-120	
Methylene chloride	ug/kg	100	94.5	94	70-123	
Styrene	ug/kg	100	88.6	89	79-120	
Tetrachloroethene	ug/kg	100	91.9	92	78-128	
Toluene	ug/kg	100	84.2	84	79-120	
trans-1,2-Dichloroethene	ug/kg	100	86.8	87	76-124	
trans-1,3-Dichloropropene	ug/kg	100	91.5	92	80-124	
Vinyl chloride	ug/kg	100	96.1	96	57-132	
Xylene (Total)	ug/kg	300	268	89	79-120	
1,2-Dichloroethane-d4 (S)	%			98	75-129	
4-Bromofluorobenzene (S)	%			98	76-123	
Toluene-d8 (S)	%			96	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62603 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

METHOD BLANK: 1401487 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010, 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/26/14 22:29	
Methylene chloride	ug/kg	ND	5.0	06/26/14 22:29	
Trichloroethene	ug/kg	ND	5.0	06/26/14 22:29	
Vinyl chloride	ug/kg	ND	5.0	06/26/14 22:29	
1,2-Dichloroethane-d4 (S)	%	97	75-129	06/26/14 22:29	
4-Bromofluorobenzene (S)	%	97	76-123	06/26/14 22:29	
Toluene-d8 (S)	%	100	80-120	06/26/14 22:29	

LABORATORY CONTROL SAMPLE: 1401488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	100	92.7	93	76-124	
Methylene chloride	ug/kg	100	113	113	70-123	
Trichloroethene	ug/kg	100	90.9	91	80-120	
Vinyl chloride	ug/kg	100	92.7	93	57-132	
1,2-Dichloroethane-d4 (S)	%			102	75-129	
4-Bromofluorobenzene (S)	%			100	76-123	
Toluene-d8 (S)	%			100	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: MSV/62998 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60172280001, 60172280002, 60172280003

METHOD BLANK: 1410713 Matrix: Solid
Associated Lab Samples: 60172280001, 60172280002, 60172280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1,2-Trichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1-Dichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,1-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloroethane	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloropropane	ug/kg	ND	5.0	07/15/14 18:03	
2-Butanone (MEK)	ug/kg	ND	10.0	07/15/14 18:03	
2-Hexanone	ug/kg	ND	20.0	07/15/14 18:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	07/15/14 18:03	
Acetone	ug/kg	ND	20.0	07/15/14 18:03	
Benzene	ug/kg	ND	5.0	07/15/14 18:03	
Bromodichloromethane	ug/kg	ND	5.0	07/15/14 18:03	
Bromoform	ug/kg	ND	5.0	07/15/14 18:03	
Bromomethane	ug/kg	ND	5.0	07/15/14 18:03	
Carbon disulfide	ug/kg	ND	5.0	07/15/14 18:03	
Carbon tetrachloride	ug/kg	ND	5.0	07/15/14 18:03	
Chlorobenzene	ug/kg	ND	5.0	07/15/14 18:03	
Chloroethane	ug/kg	ND	5.0	07/15/14 18:03	
Chloroform	ug/kg	ND	5.0	07/15/14 18:03	
Chloromethane	ug/kg	ND	5.0	07/15/14 18:03	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	07/15/14 18:03	
Dibromochloromethane	ug/kg	ND	5.0	07/15/14 18:03	
Ethylbenzene	ug/kg	ND	5.0	07/15/14 18:03	
Methylene chloride	ug/kg	ND	5.0	07/15/14 18:03	
Styrene	ug/kg	ND	5.0	07/15/14 18:03	
Tetrachloroethene	ug/kg	ND	5.0	07/15/14 18:03	
Toluene	ug/kg	ND	5.0	07/15/14 18:03	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	07/15/14 18:03	
Trichloroethene	ug/kg	ND	5.0	07/15/14 18:03	
Vinyl chloride	ug/kg	ND	5.0	07/15/14 18:03	
Xylene (Total)	ug/kg	ND	5.0	07/15/14 18:03	
1,2-Dichloroethane-d4 (S)	%	102	75-129	07/15/14 18:03	
4-Bromofluorobenzene (S)	%	100	76-123	07/15/14 18:03	
Toluene-d8 (S)	%	99	80-120	07/15/14 18:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

LABORATORY CONTROL SAMPLE: 1410714

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	94.2	94	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.0	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	88.6	89	76-120	
1,1-Dichloroethane	ug/kg	100	89.7	90	71-120	
1,1-Dichloroethene	ug/kg	100	89.4	89	76-130	
1,2-Dichloroethane	ug/kg	100	94.7	95	78-120	
1,2-Dichloropropane	ug/kg	100	89.6	90	80-120	
2-Butanone (MEK)	ug/kg	500	466	93	55-135	
2-Hexanone	ug/kg	500	473	95	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	483	97	71-128	
Acetone	ug/kg	500	458	92	43-144	
Benzene	ug/kg	100	89.3	89	80-120	
Bromodichloromethane	ug/kg	100	93.6	94	80-120	
Bromoform	ug/kg	100	96.3	96	75-124	
Bromomethane	ug/kg	100	105	105	38-150	
Carbon disulfide	ug/kg	100	100	100	58-137	
Carbon tetrachloride	ug/kg	100	92.6	93	75-140	
Chlorobenzene	ug/kg	100	87.1	87	80-120	
Chloroethane	ug/kg	100	96.4	96	65-127	
Chloroform	ug/kg	100	93.5	94	74-120	
Chloromethane	ug/kg	100	111	111	39-138	
cis-1,2-Dichloroethene	ug/kg	100	85.0	85	76-124	
cis-1,3-Dichloropropene	ug/kg	100	92.4	92	82-120	
Dibromochloromethane	ug/kg	100	92.8	93	80-124	
Ethylbenzene	ug/kg	100	87.8	88	80-120	
Methylene chloride	ug/kg	100	83.9	84	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	84.9	85	78-128	
Toluene	ug/kg	100	87.9	88	79-120	
trans-1,2-Dichloroethene	ug/kg	100	87.3	87	76-124	
trans-1,3-Dichloropropene	ug/kg	100	89.7	90	80-124	
Trichloroethene	ug/kg	100	88.6	89	80-120	
Vinyl chloride	ug/kg	100	97.6	98	57-132	
Xylene (Total)	ug/kg	300	261	87	79-120	
1,2-Dichloroethane-d4 (S)	%			100	75-129	
4-Bromofluorobenzene (S)	%			99	76-123	
Toluene-d8 (S)	%			101	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9764 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010

METHOD BLANK: 1400860 Matrix: Solid
Associated Lab Samples: 60172280004, 60172280005, 60172280006, 60172280008, 60172280009, 60172280010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/25/14 00:00	

SAMPLE DUPLICATE: 1400861

Parameter	Units	7516259001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		14.1			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9766 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280011, 60172280012, 60172280013

METHOD BLANK: 1401289 Matrix: Solid
Associated Lab Samples: 60172280011, 60172280012, 60172280013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/26/14 00:00	

SAMPLE DUPLICATE: 1401290

Parameter	Units	60171814027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.0	17.4	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172280

QC Batch: PMST/9831 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60172280001, 60172280002, 60172280003

METHOD BLANK: 1411285 Matrix: Solid
Associated Lab Samples: 60172280001, 60172280002, 60172280003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	07/16/14 00:00	

SAMPLE DUPLICATE: 1411286

Parameter	Units	60172280001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	11.6	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60172280

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/62575

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

Batch: MSV/62603

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

Batch: MSV/62998

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

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H1 Analysis conducted outside the EPA method holding time.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60172280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172280001	**MW-87 (4.5 FT) - 062014**	EPA 8260	MSV/62998		
60172280002	**MW-87 (15.0 FT) - 062014**	EPA 8260	MSV/62998		
60172280003	**MW-91 (12.5 FT) - 062014**	EPA 8260	MSV/62998		
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280004	**DP-23 (4.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280005	**DP-23 (10.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280006	**DP-23 (15.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280008	**DP-23 (20.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280009	**DP-28 (4.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	MSV/62575		
60172280010	**DP-28 (7.5 FT) - 062014**	EPA 8260	MSV/62603		
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280011	**DP-28 (12.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	MSV/62575		
60172280012	**DP-28 (17.0 FT) - 062014**	EPA 8260	MSV/62603		
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	MSV/62575		
60172280013	**DP-28 (20.5 FT) - 062015**	EPA 8260	MSV/62603		
60172280001	**MW-87 (4.5 FT) - 062014**	ASTM D2974	PMST/9831		
60172280002	**MW-87 (15.0 FT) - 062014**	ASTM D2974	PMST/9831		
60172280003	**MW-91 (12.5 FT) - 062014**	ASTM D2974	PMST/9831		
60172280005	**DP-23 (10.0 FT) - 062014**	ASTM D2974	PMST/9764		
60172280008	**DP-23 (20.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280009	**DP-28 (4.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280010	**DP-28 (7.5 FT) - 062014**	ASTM D2974	PMST/9764		
60172280011	**DP-28 (12.0 FT) - 062014**	ASTM D2974	PMST/9766		
60172280012	**DP-28 (17.0 FT) - 062014**	ASTM D2974	PMST/9766		
60172280013	**DP-28 (20.5 FT) - 062015**	ASTM D2974	PMST/9766		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60172280

60172280

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8043 8677 8990 Pace Shipping Label Used? Yes ☒ No ☐ (Knight)

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: ~~T-239~~ / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.4

Date and initials of person examining contents: DRS 6/25/19 935

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 3 day TAT
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: ~~water~~ soil		13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: MA / Lot # of added preservative:
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 111813-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☒No ☐N/A	17. List State: Fort Smith, AR

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: A for (MJD) Date: 6/25

Pace Analytical
www.pacelabs.com

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:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	ENVIRON
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:	3-Day TAT	Project Number:	3433233A	Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

Pace Project No./ Lab I.D.: 60172280

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 client specific list		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-87 (4.5 FT) -062014	SL	G			6/24/14	0740		5	X						X	X	X	2 (Meoh) 1 (BPBu) 1 (DeIon) 1 (CE7B)		Hold 01
2	MW-87 (15.0 FT) -062014	↓	↓			↓	0755		↓	↓						↓	↓	↓	↓		Hold 02
3	MW-91 (12.5 FT) -062014	↓	↓			↓	0956		↓	↓						↓	↓	↓	↓		Hold 03
4	DP-23 (4.5 FT) -062014	↓	↓			↓	1320		↓	↓						↓	↓	↓	↓		04
5	DP-23 (10.0 FT) -062014	↓	↓			↓	1335		↓	↓						↓	↓	↓	↓		05
6	DP-23 (15.0 FT) -062014	↓	↓			↓	1340		↓	↓						↓	↓	↓	↓		06
7	DP-23 (17.5 FT) -062014	↓	↓			↓	1355		↓	↓						↓	↓	↓	↓		07
8	DP-23 (20.5 FT) -062014	↓	↓			↓	1410		↓	↓						↓	↓	↓	↓		08
9	DP-28 (4.5 FT) -062014	↓	↓			↓	1450		↓	↓						↓	↓	↓	↓		09
10	DP-28 (7.5 FT) -062014	↓	↓			↓	1500		↓	↓						↓	↓	↓	↓		010
11	DP-28 (12.0 FT) -062014	↓	↓			↓	1510		↓	↓						↓	↓	↓	↓		011
12	DP-28 (17.0 FT) -062014	↓	↓			↓	1520		↓	↓						↓	↓	↓	↓		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
3-Day TAT	[signature] / ENVIRON	6/24/14	1750	[signature] / Pace	6/25/14	815	2.4	Y	Y	Y
See samples for hold										
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/24/14

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical
www.pacelabs.com

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:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	3-Day TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: AR

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-28 (20.5 FT) -062014	SL	G			6/24/14	1540		5	X						X	X		X		2(VOA) 1(8260) 1(VOA) 1(8260) 003
2	DP-28 (26.5 FT) -062014	↓	↓			↓	1550			↓						↓	↓		↓		004
3	Trip Blank 02 -062014	WT																			2(VOA) 005
4	Temp Blank																				
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
3-Day TAT	/ENVIRON	6/24/14	1750	/Pace	6/25/14	815	2.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 6/24/14

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 26, 2014

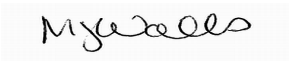
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60172300

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 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
Wayne Weber, Environ

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60172300

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 #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60172300

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172300001	**20140624-GW-MW-88**	Water	06/24/14 14:20	06/25/14 08:15
60172300002	**20140624-GW-MW-89**	Water	06/24/14 16:40	06/25/14 08:15
60172300003	**TRIP BLANK-GW-01**	Water	06/24/14 08:00	06/25/14 08:15

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60172300

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172300001	**20140624-GW-MW-88**	EPA 5030B/8260	PRG	38
60172300002	**20140624-GW-MW-89**	EPA 5030B/8260	PRG	38
60172300003	**TRIP BLANK-GW-01**	EPA 5030B/8260	PRG	38

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60172300

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: June 26, 2014

General Information:
3 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/62580

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: 20140624-GW-MW-88 **Lab ID: 60172300001** Collected: 06/24/14 14:20 Received: 06/25/14 08:15 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		06/26/14 10:16	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:16	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:16	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:16	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:16	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:16	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		06/26/14 10:16	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		06/26/14 10:16	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/14 10:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: 20140624-GW-MW-89 **Lab ID: 60172300002** Collected: 06/24/14 16:40 Received: 06/25/14 08:15 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		06/26/14 10:31	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:31	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:31	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:31	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:31	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:31	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:31	79-00-5	
Trichloroethene	**19.5**	ug/L	5.0	0.50	1		06/26/14 10:31	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	80-120		1		06/26/14 10:31	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		06/26/14 10:31	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		06/26/14 10:31	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60172300

Sample: TRIP BLANK-GW-01 **Lab ID: 60172300003** Collected: 06/24/14 08:00 Received: 06/25/14 08:15 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		06/26/14 10:02	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/26/14 10:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/26/14 10:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/26/14 10:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/26/14 10:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/26/14 10:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/26/14 10:02	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/26/14 10:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/26/14 10:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/26/14 10:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/26/14 10:02	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/26/14 10:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/26/14 10:02	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/26/14 10:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/26/14 10:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/26/14 10:02	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/26/14 10:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/26/14 10:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		06/26/14 10:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		06/26/14 10:02	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/26/14 10:02	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/26/14 10:02		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172300

QC Batch: MSV/62580 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60172300001, 60172300002, 60172300003

METHOD BLANK: 1400905 Matrix: Water
Associated Lab Samples: 60172300001, 60172300002, 60172300003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/26/14 09:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,1-Dichloroethane	ug/L	ND	2.4	06/26/14 09:48	
1,1-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloroethane	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloropropane	ug/L	ND	5.0	06/26/14 09:48	
2-Butanone (MEK)	ug/L	ND	10.0	06/26/14 09:48	
2-Hexanone	ug/L	ND	10.0	06/26/14 09:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/26/14 09:48	
Acetone	ug/L	ND	10.0	06/26/14 09:48	
Benzene	ug/L	ND	5.0	06/26/14 09:48	
Bromodichloromethane	ug/L	ND	5.0	06/26/14 09:48	
Bromoform	ug/L	ND	5.0	06/26/14 09:48	
Bromomethane	ug/L	ND	7.0	06/26/14 09:48	
Carbon disulfide	ug/L	ND	10.0	06/26/14 09:48	
Carbon tetrachloride	ug/L	ND	5.0	06/26/14 09:48	
Chlorobenzene	ug/L	ND	5.0	06/26/14 09:48	
Chloroethane	ug/L	ND	10.0	06/26/14 09:48	
Chloroform	ug/L	ND	5.0	06/26/14 09:48	
Chloromethane	ug/L	ND	10.0	06/26/14 09:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/26/14 09:48	
Dibromochloromethane	ug/L	ND	5.0	06/26/14 09:48	
Ethylbenzene	ug/L	ND	5.0	06/26/14 09:48	
Methylene chloride	ug/L	1.2J	5.0	06/26/14 09:48	
Styrene	ug/L	ND	5.0	06/26/14 09:48	
Tetrachloroethene	ug/L	ND	5.0	06/26/14 09:48	
Toluene	ug/L	ND	5.0	06/26/14 09:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/26/14 09:48	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/26/14 09:48	
Trichloroethene	ug/L	ND	5.0	06/26/14 09:48	
Vinyl chloride	ug/L	ND	2.0	06/26/14 09:48	
Xylene (Total)	ug/L	ND	5.0	06/26/14 09:48	
1,2-Dichloroethane-d4 (S)	%	95	80-120	06/26/14 09:48	
4-Bromofluorobenzene (S)	%	99	80-120	06/26/14 09:48	
Toluene-d8 (S)	%	97	80-120	06/26/14 09:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60172300

LABORATORY CONTROL SAMPLE: 1400906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	73-124	
1,1,2-Trichloroethane	ug/L	20	20.7	103	80-120	
1,1-Dichloroethane	ug/L	20	20.3	102	77-120	
1,1-Dichloroethene	ug/L	20	20.5	103	78-126	
1,2-Dichloroethane	ug/L	20	19.6	98	77-123	
1,2-Dichloropropane	ug/L	20	21.2	106	80-121	
2-Butanone (MEK)	ug/L	100	98.8	99	52-145	
2-Hexanone	ug/L	100	93.2	93	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	71-131	
Acetone	ug/L	100	94.7	95	32-155	
Benzene	ug/L	20	20.9	105	80-120	
Bromodichloromethane	ug/L	20	21.8	109	80-120	
Bromoform	ug/L	20	21.3	107	73-124	
Bromomethane	ug/L	20	16.8	84	31-144	
Carbon disulfide	ug/L	20	22.0	110	65-125	
Carbon tetrachloride	ug/L	20	20.2	101	78-128	
Chlorobenzene	ug/L	20	20.8	104	80-120	
Chloroethane	ug/L	20	23.9	119	55-137	
Chloroform	ug/L	20	21.0	105	79-120	
Chloromethane	ug/L	20	8.9J	44	22-138	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	80-120	
Dibromochloromethane	ug/L	20	20.2	101	80-120	
Ethylbenzene	ug/L	20	20.4	102	80-121	
Methylene chloride	ug/L	20	24.0	120	73-126	
Styrene	ug/L	20	21.7	108	80-120	
Tetrachloroethene	ug/L	20	20.6	103	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	79-121	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	80-127	
Trichloroethene	ug/L	20	19.9	100	80-120	
Vinyl chloride	ug/L	20	17.9	90	59-120	
Xylene (Total)	ug/L	60	62.5	104	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			95	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60172300

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62580

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60172300

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172300001	**20140624-GW-MW-88**	EPA 5030B/8260	MSV/62580		
60172300002	**20140624-GW-MW-89**	EPA 5030B/8260	MSV/62580		
60172300003	**TRIP BLANK-GW-01**	EPA 5030B/8260	MSV/62580		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60172300

60172300

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8043 8677 9004 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 ☑ Zip

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet / Blue / None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 6/25

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1 day
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 050514-SGFD	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑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: MW Date: 6/25/14

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone:	913-553-5926 Fax:
Requested Due Date/TAT:	1-Day TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60172300
1	20140624-GW-MW-88	WT	G			6-24-14	1420		3				X					X		3(DG9H) 01
2	20140624-GW-MW-89	WT	G			6-24-14	1640		3				X					X		02
3	Trip Blank - GW-01					6-24-14			2				X					X		2(DG9H) 03
4	Temperature Blank								1	X								X MM		
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-DAY TAT	[signature] / ENVIRON	6-24-14	1710	[signature] / PASI	6/25	8:15	0.8	Y	Y	Y

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Melson

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6-24-14

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

June 27, 2014

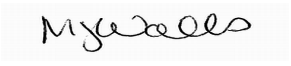
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Fort Smith
Pace Project No.: 60172431

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 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
Wayne Weber, Environ

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Fort Smith
Pace Project No.: 60172431

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 #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60172431001	**20140625-GW-MW-87**	Water	06/25/14 10:50	06/26/14 02:03
60172431002	**20140625-GW-MW-90**	Water	06/25/14 08:00	06/26/14 02:03
60172431003	**20140625-GW-MW-91**	Water	06/25/14 13:15	06/26/14 02:03
60172431004	**TRIP BLANK**	Water	06/25/14 13:15	06/26/14 02:03

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60172431001	**20140625-GW-MW-87**	EPA 5030B/8260	PRG	38
60172431002	**20140625-GW-MW-90**	EPA 5030B/8260	PRG	38
60172431003	**20140625-GW-MW-91**	EPA 5030B/8260	PRG	38
60172431004	**TRIP BLANK**	EPA 5030B/8260	PRG	38

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Fort Smith
Pace Project No.: 60172431

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: June 27, 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/62615

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-87 **Lab ID: 60172431001** Collected: 06/25/14 10:50 Received: 06/26/14 02:03 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		06/27/14 10:27	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:27	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 10:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:27	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/27/14 10:27	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	124-48-1	
1,1-Dichloroethane	**2.1J**	ug/L	2.4	0.50	1		06/27/14 10:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	107-06-2	
1,1-Dichloroethene	**5.8**	ug/L	5.0	0.50	1		06/27/14 10:27	75-35-4	
cis-1,2-Dichloroethene	**41.8**	ug/L	5.0	0.50	1		06/27/14 10:27	156-59-2	
trans-1,2-Dichloroethene	**4.5J**	ug/L	5.0	0.50	1		06/27/14 10:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:27	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:27	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:27	79-34-5	
Tetrachloroethene	**2.6J**	ug/L	5.0	0.50	1		06/27/14 10:27	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:27	79-00-5	
Trichloroethene	**564**	ug/L	50.0	5.0	10		06/27/14 11:11	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:27	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		06/27/14 10:27	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		06/27/14 10:27	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/27/14 10:27	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-90 **Lab ID: 60172431002** Collected: 06/25/14 08:00 Received: 06/26/14 02:03 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		06/27/14 10:42	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:42	78-93-3	
Carbon disulfide	**3.2J**	ug/L	10.0	2.5	1		06/27/14 10:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:42	75-00-3	
Chloroform	**1.6J**	ug/L	5.0	0.50	1		06/27/14 10:42	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:42	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/27/14 10:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:42	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:42	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 12:51	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		06/27/14 10:42	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		06/27/14 10:42	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/27/14 10:42	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:42		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: 20140625-GW-MW-91 **Lab ID: 60172431003** Collected: 06/25/14 13:15 Received: 06/26/14 02:03 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		06/27/14 10:56	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 10:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 10:56	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 10:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 10:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 10:56	75-00-3	
Chloroform	**4.8J**	ug/L	5.0	0.50	1		06/27/14 10:56	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 10:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	124-48-1	
1,1-Dichloroethane	**0.93J**	ug/L	2.4	0.50	1		06/27/14 10:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	107-06-2	
1,1-Dichloroethene	**2.6J**	ug/L	5.0	0.50	1		06/27/14 10:56	75-35-4	
cis-1,2-Dichloroethene	**21.7**	ug/L	5.0	0.50	1		06/27/14 10:56	156-59-2	
trans-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.50	1		06/27/14 10:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 10:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 10:56	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 10:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 10:56	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 10:56	79-34-5	
Tetrachloroethene	**1.1J**	ug/L	5.0	0.50	1		06/27/14 10:56	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 10:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 10:56	79-00-5	
Trichloroethene	**234**	ug/L	25.0	2.5	5		06/27/14 11:25	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 10:56	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 10:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		06/27/14 10:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120		1		06/27/14 10:56	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		06/27/14 10:56	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 10:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith
Pace Project No.: 60172431

Sample: TRIP BLANK **Lab ID: 60172431004** Collected: 06/25/14 13:15 Received: 06/26/14 02:03 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		06/27/14 09:15	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		06/27/14 09:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		06/27/14 09:15	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		06/27/14 09:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		06/27/14 09:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		06/27/14 09:15	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		06/27/14 09:15	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		06/27/14 09:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		06/27/14 09:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		06/27/14 09:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		06/27/14 09:15	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		06/27/14 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		06/27/14 09:15	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		06/27/14 09:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		06/27/14 09:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		06/27/14 09:15	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		06/27/14 09:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		06/27/14 09:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		06/27/14 09:15	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		1		06/27/14 09:15	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/27/14 09:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/27/14 09:15		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith
Pace Project No.: 60172431

QC Batch: MSV/62615 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60172431001, 60172431002, 60172431003, 60172431004

METHOD BLANK: 1401669 Matrix: Water
Associated Lab Samples: 60172431001, 60172431002, 60172431003, 60172431004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/27/14 09:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,1-Dichloroethane	ug/L	ND	2.4	06/27/14 09:01	
1,1-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloroethane	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloropropane	ug/L	ND	5.0	06/27/14 09:01	
2-Butanone (MEK)	ug/L	ND	10.0	06/27/14 09:01	
2-Hexanone	ug/L	ND	10.0	06/27/14 09:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/27/14 09:01	
Acetone	ug/L	ND	10.0	06/27/14 09:01	
Benzene	ug/L	ND	5.0	06/27/14 09:01	
Bromodichloromethane	ug/L	ND	5.0	06/27/14 09:01	
Bromoform	ug/L	ND	5.0	06/27/14 09:01	
Bromomethane	ug/L	ND	7.0	06/27/14 09:01	
Carbon disulfide	ug/L	ND	10.0	06/27/14 09:01	
Carbon tetrachloride	ug/L	ND	5.0	06/27/14 09:01	
Chlorobenzene	ug/L	ND	5.0	06/27/14 09:01	
Chloroethane	ug/L	ND	10.0	06/27/14 09:01	
Chloroform	ug/L	ND	5.0	06/27/14 09:01	
Chloromethane	ug/L	ND	10.0	06/27/14 09:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/27/14 09:01	
Dibromochloromethane	ug/L	ND	5.0	06/27/14 09:01	
Ethylbenzene	ug/L	ND	5.0	06/27/14 09:01	
Methylene chloride	ug/L	ND	5.0	06/27/14 09:01	
Styrene	ug/L	ND	5.0	06/27/14 09:01	
Tetrachloroethene	ug/L	ND	5.0	06/27/14 09:01	
Toluene	ug/L	ND	5.0	06/27/14 09:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/27/14 09:01	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/27/14 09:01	
Trichloroethene	ug/L	ND	5.0	06/27/14 09:01	
Vinyl chloride	ug/L	ND	2.0	06/27/14 09:01	
Xylene (Total)	ug/L	ND	5.0	06/27/14 09:01	
1,2-Dichloroethane-d4 (S)	%	92	80-120	06/27/14 09:01	
4-Bromofluorobenzene (S)	%	99	80-120	06/27/14 09:01	
Toluene-d8 (S)	%	99	80-120	06/27/14 09:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith
Pace Project No.: 60172431

LABORATORY CONTROL SAMPLE: 1401670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.0	100	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	73-124	
1,1,2-Trichloroethane	ug/L	20	20.5	103	80-120	
1,1-Dichloroethane	ug/L	20	20.4	102	77-120	
1,1-Dichloroethene	ug/L	20	19.4	97	78-126	
1,2-Dichloroethane	ug/L	20	18.4	92	77-123	
1,2-Dichloropropane	ug/L	20	21.7	108	80-121	
2-Butanone (MEK)	ug/L	100	101	101	52-145	
2-Hexanone	ug/L	100	96.8	97	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	71-131	
Acetone	ug/L	100	98.8	99	32-155	
Benzene	ug/L	20	20.7	104	80-120	
Bromodichloromethane	ug/L	20	21.3	106	80-120	
Bromoform	ug/L	20	21.7	108	73-124	
Bromomethane	ug/L	20	15.7	78	31-144	
Carbon disulfide	ug/L	20	20.9	104	65-125	
Carbon tetrachloride	ug/L	20	19.7	99	78-128	
Chlorobenzene	ug/L	20	20.9	105	80-120	
Chloroethane	ug/L	20	24.5	122	55-137	
Chloroform	ug/L	20	20.2	101	79-120	
Chloromethane	ug/L	20	8.8J	44	22-138	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.9	104	80-120	
Dibromochloromethane	ug/L	20	20.7	104	80-120	
Ethylbenzene	ug/L	20	20.8	104	80-121	
Methylene chloride	ug/L	20	22.5	112	73-126	
Styrene	ug/L	20	22.2	111	80-120	
Tetrachloroethene	ug/L	20	20.4	102	80-121	
Toluene	ug/L	20	20.1	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.3	91	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.6	98	80-127	
Trichloroethene	ug/L	20	19.4	97	80-120	
Vinyl chloride	ug/L	20	15.0	75	59-120	
Xylene (Total)	ug/L	60	64.1	107	80-121	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			96	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Fort Smith
Pace Project No.: 60172431

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/62615

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith
Pace Project No.: 60172431

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60172431001	**20140625-GW-MW-87**	EPA 5030B/8260	MSV/62615		
60172431002	**20140625-GW-MW-90**	EPA 5030B/8260	MSV/62615		
60172431003	**20140625-GW-MW-91**	EPA 5030B/8260	MSV/62615		
60172431004	**TRIP BLANK**	EPA 5030B/8260	MSV/62615		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60172431

60172431

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ VIA

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 ☒ ZPLC

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.4

Date and initials of person examining contents: JB 6/2.6

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☒Yes	☐No	☐N/A	7. 1-Day
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix:	WT			13.
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	14.
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 5/6/14				15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒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: MW Date: 6/26/14

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	ENVIRON
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:	1-Day TAT	Project Number:	3433233A	Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	20140625-GW-MW-87		WT	G			6-25-14	1050		3				X						X	(3)DGAH		01
2	20140625-GW-MW-90		WT	G			↓	0800		↓				↓						↓	↓		~~HOLD~~ JM 02
3	20140625-GW-MW-91		WT	G			↓	1315		↓				↓						↓	↓		~~HOLD~~ JM 03
4	TRIP BLANK																				(2)DGAH		04
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

60172431

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-Day TAT	Jeff Melson / ENVIRON	6-25-14	1445	Pace	6/26	0203	4.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jeff Melson

SIGNATURE of SAMPLER: Jeff Melson DATE Signed (MM/DD/YY): 6-25-14

*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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 11, 2014

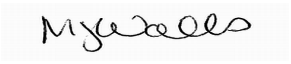
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Soil
Pace Project No.: 60175335

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith Soil
Pace Project No.: 60175335

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175335001	**DP-40 (4.0 FT) - 082014**	Solid	08/07/14 13:05	08/08/14 08:40
60175335002	**DP-40 (11.0 FT) - 082014**	Solid	08/07/14 13:25	08/08/14 08:40
60175335003	**DP-40 (14.5 FT) - 082014**	Solid	08/07/14 14:20	08/08/14 08:40
60175335004	**TRIP BLANK**	Solid	08/07/14 13:05	08/08/14 08:40

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175335001	**DP-40 (4.0 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335002	**DP-40 (11.0 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335003	**DP-40 (14.5 FT) - 082014**	EPA 8260	JKL	37
		ASTM D2974	TMD	1
60175335004	**TRIP BLANK**	EPA 8260	JKL	37

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Ft. Smith Soil
Pace Project No.: 60175335

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 11, 2014

General Information:
4 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.

QC Batch: MSV/63457

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1422645)
  - Bromomethane
  - Chloromethane

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

QC Batch: MSV/63457

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (4.0 FT) - 082014 **Lab ID: 60175335001** Collected: 08/07/14 13:05 Received: 08/08/14 08:40 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								
Acetone	ND	ug/kg	19.5	9.7	1		08/08/14 18:09	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	9.7	4.9	1		08/08/14 18:09	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	100-41-4	
2-Hexanone	ND	ug/kg	19.5	9.7	1		08/08/14 18:09	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.9	1		08/08/14 18:09	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/08/14 18:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	80-120		1		08/08/14 18:09	2037-26-5	
4-Bromofluorobenzene (S)	105	%	76-123		1		08/08/14 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	75-129		1		08/08/14 18:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.7**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (11.0 FT) - 082014 **Lab ID: 60175335002** Collected: 08/07/14 13:25 Received: 08/08/14 08:40 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								
Acetone	ND	ug/kg	17.7	8.9	1		08/08/14 18:25	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/08/14 18:25	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	100-41-4	
2-Hexanone	ND	ug/kg	17.7	8.9	1		08/08/14 18:25	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/08/14 18:25	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/08/14 18:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80-120		1		08/08/14 18:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/08/14 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-129		1		08/08/14 18:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.1**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: DP-40 (14.5 FT) - 082014 **Lab ID: 60175335003** Collected: 08/07/14 14:20 Received: 08/08/14 08:40 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								
Acetone	ND	ug/kg	19.4	9.7	1		08/08/14 18:40	67-64-1	
Benzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-27-4	
Bromoform	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-25-2	
Bromomethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	9.7	4.8	1		08/08/14 18:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-00-3	
Chloroform	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	67-66-3	
Chloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	74-87-3	L3
Dibromochloromethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	100-41-4	
2-Hexanone	ND	ug/kg	19.4	9.7	1		08/08/14 18:40	591-78-6	
Methylene chloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.8	1		08/08/14 18:40	108-10-1	
Styrene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	127-18-4	
Toluene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-00-5	
Trichloroethene	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	2.4	1		08/08/14 18:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	104	%	80-120		1		08/08/14 18:40	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		08/08/14 18:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/08/14 18:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.4**	%	0.50	0.50	1		08/09/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Soil
Pace Project No.: 60175335

Sample: TRIP BLANK **Lab ID: 60175335004** Collected: 08/07/14 13:05 Received: 08/08/14 08:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/08/14 17:39	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	74-83-9	L3
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/08/14 17:39	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	74-87-3	L3
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/08/14 17:39	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/08/14 17:39	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/08/14 17:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	105	%	80-120		1		08/08/14 17:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/08/14 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	75-129		1		08/08/14 17:39	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

QC Batch: MSV/63457 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175335001, 60175335002, 60175335003, 60175335004

METHOD BLANK: 1422644 Matrix: Solid
Associated Lab Samples: 60175335001, 60175335002, 60175335003, 60175335004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1-Dichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,1-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloroethane	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloropropane	ug/kg	ND	5.0	08/08/14 17:23	
2-Butanone (MEK)	ug/kg	ND	10.0	08/08/14 17:23	
2-Hexanone	ug/kg	ND	20.0	08/08/14 17:23	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/08/14 17:23	
Acetone	ug/kg	ND	20.0	08/08/14 17:23	
Benzene	ug/kg	ND	5.0	08/08/14 17:23	
Bromodichloromethane	ug/kg	ND	5.0	08/08/14 17:23	
Bromoform	ug/kg	ND	5.0	08/08/14 17:23	
Bromomethane	ug/kg	ND	5.0	08/08/14 17:23	
Carbon disulfide	ug/kg	ND	5.0	08/08/14 17:23	
Carbon tetrachloride	ug/kg	ND	5.0	08/08/14 17:23	
Chlorobenzene	ug/kg	ND	5.0	08/08/14 17:23	
Chloroethane	ug/kg	ND	5.0	08/08/14 17:23	
Chloroform	ug/kg	ND	5.0	08/08/14 17:23	
Chloromethane	ug/kg	ND	5.0	08/08/14 17:23	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/14 17:23	
Dibromochloromethane	ug/kg	ND	5.0	08/08/14 17:23	
Ethylbenzene	ug/kg	ND	5.0	08/08/14 17:23	
Methylene chloride	ug/kg	2.5J	5.0	08/08/14 17:23	
Styrene	ug/kg	ND	5.0	08/08/14 17:23	
Tetrachloroethene	ug/kg	ND	5.0	08/08/14 17:23	
Toluene	ug/kg	ND	5.0	08/08/14 17:23	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/08/14 17:23	
Trichloroethene	ug/kg	ND	5.0	08/08/14 17:23	
Vinyl chloride	ug/kg	ND	5.0	08/08/14 17:23	
Xylene (Total)	ug/kg	ND	5.0	08/08/14 17:23	
1,2-Dichloroethane-d4 (S)	%	101	75-129	08/08/14 17:23	
4-Bromofluorobenzene (S)	%	102	76-123	08/08/14 17:23	
Toluene-d8 (S)	%	105	80-120	08/08/14 17:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

LABORATORY CONTROL SAMPLE: 1422645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	102	102	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	83.3	83	73-120	
1,1,2-Trichloroethane	ug/kg	100	86.6	87	76-120	
1,1-Dichloroethane	ug/kg	100	96.8	97	71-120	
1,1-Dichloroethene	ug/kg	100	101	101	76-130	
1,2-Dichloroethane	ug/kg	100	100	100	78-120	
1,2-Dichloropropane	ug/kg	100	101	101	80-120	
2-Butanone (MEK)	ug/kg	500	489	98	55-135	
2-Hexanone	ug/kg	500	423	85	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	484	97	71-128	
Acetone	ug/kg	500	514	103	43-144	
Benzene	ug/kg	100	96.7	97	80-120	
Bromodichloromethane	ug/kg	100	104	104	80-120	
Bromoform	ug/kg	100	93.9	94	75-124	
Bromomethane	ug/kg	100	151	151	38-150	L0
Carbon disulfide	ug/kg	100	110	110	58-137	
Carbon tetrachloride	ug/kg	100	103	103	75-140	
Chlorobenzene	ug/kg	100	88.3	88	80-120	
Chloroethane	ug/kg	100	102	102	65-127	
Chloroform	ug/kg	100	96.8	97	74-120	
Chloromethane	ug/kg	100	143	143	39-138	L0
cis-1,2-Dichloroethene	ug/kg	100	102	102	76-124	
cis-1,3-Dichloropropene	ug/kg	100	101	101	82-120	
Dibromochloromethane	ug/kg	100	93.8	94	80-124	
Ethylbenzene	ug/kg	100	85.9	86	80-120	
Methylene chloride	ug/kg	100	92.7	93	70-123	
Styrene	ug/kg	100	97.0	97	79-120	
Tetrachloroethene	ug/kg	100	87.6	88	78-128	
Toluene	ug/kg	100	96.2	96	79-120	
trans-1,2-Dichloroethene	ug/kg	100	97.0	97	76-124	
trans-1,3-Dichloropropene	ug/kg	100	90.9	91	80-124	
Trichloroethene	ug/kg	100	97.5	97	80-120	
Vinyl chloride	ug/kg	100	110	110	57-132	
Xylene (Total)	ug/kg	300	254	85	79-120	
1,2-Dichloroethane-d4 (S)	%			100	75-129	
4-Bromofluorobenzene (S)	%			104	76-123	
Toluene-d8 (S)	%			106	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Soil
Pace Project No.: 60175335

QC Batch: PMST/9897 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175335001, 60175335002, 60175335003

METHOD BLANK: 1422922 Matrix: Solid
Associated Lab Samples: 60175335001, 60175335002, 60175335003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/09/14 00:00	

SAMPLE DUPLICATE: 1422923

Parameter	Units	60175335001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	14.7	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Ft. Smith Soil
Pace Project No.: 60175335

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/63457

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

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Soil
Pace Project No.: 60175335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175335001	**DP-40 (4.0 FT) - 082014**	EPA 8260	MSV/63457		
60175335002	**DP-40 (11.0 FT) - 082014**	EPA 8260	MSV/63457		
60175335003	**DP-40 (14.5 FT) - 082014**	EPA 8260	MSV/63457		
60175335004	**TRIP BLANK**	EPA 8260	MSV/63457		
60175335001	**DP-40 (4.0 FT) - 082014**	ASTM D2974	PMST/9897		
60175335002	**DP-40 (11.0 FT) - 082014**	ASTM D2974	PMST/9897		
60175335003	**DP-40 (14.5 FT) - 082014**	ASTM D2974	PMST/9897		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60175335

60175335

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 6113 3077 3530 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 ☑ zpac

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.0

Date and initials of person examining contents: at 8/8

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 8/8

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1777351

Section A Required Client Information:

Company:	ENVIRON
Address:	7500 College Blvd. Ste 925 Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone:	913-553-5926
Fax:	
Requested Due Date/TAT:	1-DAY TAT

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	3433233A

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	ENVIRON
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: ______

Section D Required Client Information

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 OT

Requested Analysis Filtered (Y/N): N

Pace Project No./ Lab I.D.: 60175335

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 Specific List	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-40(4.0FT)-082014	SL	G			8/7/14	1305		5	X						X	X	X		1(?) 1(DEAM) 1(DEAB) 2(VEAU) M
2	DP-40(11.0FT)-082014	↓	↓				1325		↓	↓						↓	↓	↓		↓
3	DP-40 (14.5FT)-082014	↓	↓				1420		↓	↓						↓	↓	↓		↓
4	Trip Blank 05-082014	WT							2	X								↓		2(VEAU)
5	Temp Blank	WT							1	X										
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1-Day TAT! (24 hr.)	[signature] / ENVIRON	8/7/14	1800	[signature] / PASI	8/8	8:40	4.0	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/7/14

*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.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

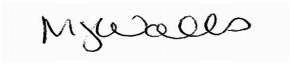
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175425001	**DP-41 (4.0 FT) - 082014**	Solid	08/08/14 07:40	08/09/14 01:32
60175425002	**DP-41 (10.0 FT) - 082014**	Solid	08/08/14 08:05	08/09/14 01:32
60175425003	**DP-41 (14.0 FT) - 082014**	Solid	08/08/14 08:15	08/09/14 01:32
60175425004	**DP-42 (4.0 FT) - 082014**	Solid	08/08/14 10:20	08/09/14 01:32
60175425005	**DP-42 (8-0 FT) - 082014**	Solid	08/08/14 10:30	08/09/14 01:32
60175425006	**DP-42 (12.0 FT) - 082014**	Solid	08/08/14 10:40	08/09/14 01:32
60175425007	**TB06-20140808**	Solid	08/08/14 10:40	08/09/14 01:32

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175425001	**DP-41 (4.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425002	**DP-41 (10.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425003	**DP-41 (14.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425004	**DP-42 (4.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425005	**DP-42 (8-0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425006	**DP-42 (12.0 FT) - 082014**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175425007	**TB06-20140808**	EPA 8260	TJT	37

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 13, 2014

General Information:
7 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.

QC Batch: MSV/63498

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1424042)
  - cis-1,3-Dichloropropene

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (4.0 FT) - 082014 **Lab ID: 60175425001** Collected: 08/08/14 07:40 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	24.0	12.0	1		08/11/14 16:22	67-64-1	
Benzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	71-43-2	
Bromodichloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-27-4	
Bromoform	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-25-2	
Bromomethane	**3.1J**	ug/kg	6.0	3.0	1		08/11/14 16:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	12.0	6.0	1		08/11/14 16:22	78-93-3	
Carbon disulfide	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	56-23-5	
Chlorobenzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	108-90-7	
Chloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-00-3	
Chloroform	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	67-66-3	
Chloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	74-87-3	
Dibromochloromethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	10061-02-6	
Ethylbenzene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	100-41-4	
2-Hexanone	ND	ug/kg	24.0	12.0	1		08/11/14 16:22	591-78-6	
Methylene chloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.0	6.0	1		08/11/14 16:22	108-10-1	
Styrene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-34-5	
Tetrachloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	127-18-4	
Toluene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-00-5	
Trichloroethene	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	79-01-6	
Vinyl chloride	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	75-01-4	
Xylene (Total)	ND	ug/kg	6.0	3.0	1		08/11/14 16:22	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 16:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/11/14 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-129		1		08/11/14 16:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.6**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (10.0 FT) - 082014 **Lab ID: 60175425002** Collected: 08/08/14 08:05 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	18.2	9.1	1		08/11/14 16:37	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.1	4.6	1		08/11/14 16:37	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	100-41-4	
2-Hexanone	ND	ug/kg	18.2	9.1	1		08/11/14 16:37	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	4.6	1		08/11/14 16:37	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/11/14 16:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/11/14 16:37	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/11/14 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/11/14 16:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.0**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-41 (14.0 FT) - 082014 **Lab ID: 60175425003** Collected: 08/08/14 08:15 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	18.1	9.1	1		08/11/14 16:53	67-64-1	
Benzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	71-43-2	
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-27-4	
Bromoform	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-25-2	
Bromomethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.1	4.5	1		08/11/14 16:53	78-93-3	
Carbon disulfide	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	100-41-4	
2-Hexanone	ND	ug/kg	18.1	9.1	1		08/11/14 16:53	591-78-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.1	4.5	1		08/11/14 16:53	108-10-1	
Styrene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	127-18-4	
Toluene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	75-01-4	
Xylene (Total)	ND	ug/kg	4.5	2.3	1		08/11/14 16:53	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/11/14 16:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/11/14 16:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/11/14 16:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.4**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (4.0 FT) - 082014 **Lab ID: 60175425004** Collected: 08/08/14 10:20 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	19.6	9.8	1		08/11/14 17:08	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/11/14 17:08	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	100-41-4	
2-Hexanone	ND	ug/kg	19.6	9.8	1		08/11/14 17:08	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/11/14 17:08	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/11/14 17:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 17:08	2037-26-5	
4-Bromofluorobenzene (S)	96	%	76-123		1		08/11/14 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/11/14 17:08	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.8**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (8-0 FT) - 082014 **Lab ID: 60175425005** Collected: 08/08/14 10:30 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	18.5	9.2	1		08/11/14 17:23	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/11/14 17:23	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	100-41-4	
2-Hexanone	ND	ug/kg	18.5	9.2	1		08/11/14 17:23	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/11/14 17:23	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/11/14 17:23	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/11/14 17:23	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/11/14 17:23	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/11/14 17:23	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**9.7**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: DP-42 (12.0 FT) - 082014 **Lab ID: 60175425006** Collected: 08/08/14 10:40 Received: 08/09/14 01:32 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								
Acetone	ND	ug/kg	17.1	8.6	1		08/11/14 17:39	67-64-1	
Benzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-27-4	
Bromoform	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.6	4.3	1		08/11/14 17:39	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-00-3	
Chloroform	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	100-41-4	
2-Hexanone	ND	ug/kg	17.1	8.6	1		08/11/14 17:39	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	4.3	1		08/11/14 17:39	108-10-1	
Styrene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	127-18-4	
Toluene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.1	1		08/11/14 17:39	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/11/14 17:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/11/14 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	75-129		1		08/11/14 17:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.9**	%	0.50	0.50	1		08/11/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Sample: TB06-20140808 **Lab ID: 60175425007** Collected: 08/08/14 10:40 Received: 08/09/14 01:32 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/12/14 10:08	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/12/14 10:08	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/12/14 10:08	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/12/14 10:08	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/12/14 10:08	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 10:08	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/12/14 10:08	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	75-129		1		08/12/14 10:08	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: MSV/63488 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

METHOD BLANK: 1423834 Matrix: Solid
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1-Dichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,1-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloroethane	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloropropane	ug/kg	ND	5.0	08/11/14 15:19	
2-Butanone (MEK)	ug/kg	ND	10.0	08/11/14 15:19	
2-Hexanone	ug/kg	ND	20.0	08/11/14 15:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/11/14 15:19	
Acetone	ug/kg	ND	20.0	08/11/14 15:19	
Benzene	ug/kg	ND	5.0	08/11/14 15:19	
Bromodichloromethane	ug/kg	ND	5.0	08/11/14 15:19	
Bromoform	ug/kg	ND	5.0	08/11/14 15:19	
Bromomethane	ug/kg	ND	5.0	08/11/14 15:19	
Carbon disulfide	ug/kg	ND	5.0	08/11/14 15:19	
Carbon tetrachloride	ug/kg	ND	5.0	08/11/14 15:19	
Chlorobenzene	ug/kg	ND	5.0	08/11/14 15:19	
Chloroethane	ug/kg	ND	5.0	08/11/14 15:19	
Chloroform	ug/kg	ND	5.0	08/11/14 15:19	
Chloromethane	ug/kg	ND	5.0	08/11/14 15:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/14 15:19	
Dibromochloromethane	ug/kg	ND	5.0	08/11/14 15:19	
Ethylbenzene	ug/kg	ND	5.0	08/11/14 15:19	
Methylene chloride	ug/kg	ND	5.0	08/11/14 15:19	
Styrene	ug/kg	ND	5.0	08/11/14 15:19	
Tetrachloroethene	ug/kg	ND	5.0	08/11/14 15:19	
Toluene	ug/kg	ND	5.0	08/11/14 15:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/11/14 15:19	
Trichloroethene	ug/kg	ND	5.0	08/11/14 15:19	
Vinyl chloride	ug/kg	ND	5.0	08/11/14 15:19	
Xylene (Total)	ug/kg	ND	5.0	08/11/14 15:19	
1,2-Dichloroethane-d4 (S)	%	99	75-129	08/11/14 15:19	
4-Bromofluorobenzene (S)	%	100	76-123	08/11/14 15:19	
Toluene-d8 (S)	%	100	80-120	08/11/14 15:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

LABORATORY CONTROL SAMPLE: 1423835

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	94.6	95	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	89.7	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	88.9	89	76-120	
1,1-Dichloroethane	ug/kg	100	81.8	82	71-120	
1,1-Dichloroethene	ug/kg	100	89.5	89	76-130	
1,2-Dichloroethane	ug/kg	100	93.8	94	78-120	
1,2-Dichloropropane	ug/kg	100	93.0	93	80-120	
2-Butanone (MEK)	ug/kg	500	428	86	55-135	
2-Hexanone	ug/kg	500	461	92	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	462	92	71-128	
Acetone	ug/kg	500	400	80	43-144	
Benzene	ug/kg	100	88.9	89	80-120	
Bromodichloromethane	ug/kg	100	94.1	94	80-120	
Bromoform	ug/kg	100	91.7	92	75-124	
Bromomethane	ug/kg	100	80.9	81	38-150	
Carbon disulfide	ug/kg	100	94.2	94	58-137	
Carbon tetrachloride	ug/kg	100	89.6	90	75-140	
Chlorobenzene	ug/kg	100	90.4	90	80-120	
Chloroethane	ug/kg	100	91.7	92	65-127	
Chloroform	ug/kg	100	83.9	84	74-120	
Chloromethane	ug/kg	100	92.6	93	39-138	
cis-1,2-Dichloroethene	ug/kg	100	96.1	96	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.6	85	82-120	
Dibromochloromethane	ug/kg	100	92.9	93	80-124	
Ethylbenzene	ug/kg	100	88.6	89	80-120	
Methylene chloride	ug/kg	100	72.0	72	70-123	
Styrene	ug/kg	100	91.3	91	79-120	
Tetrachloroethene	ug/kg	100	86.5	87	78-128	
Toluene	ug/kg	100	91.6	92	79-120	
trans-1,2-Dichloroethene	ug/kg	100	86.5	86	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.3	85	80-124	
Trichloroethene	ug/kg	100	92.1	92	80-120	
Vinyl chloride	ug/kg	100	83.5	83	57-132	
Xylene (Total)	ug/kg	300	266	89	79-120	
1,2-Dichloroethane-d4 (S)	%			96	75-129	
4-Bromofluorobenzene (S)	%			96	76-123	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1423836 1423837

Parameter	Units	60175350006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	101	101	81.6	78.2	81	77	21-144	4	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	101	101	59.4	50.2	59	50	10-151	17	46	
1,1,2-Trichloroethane	ug/kg	ND	101	101	75.2	72.4	74	71	10-140	4	46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1423836 1423837

Parameter	Units	60175350006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/kg	ND	101	101	68.0	68.9	67	68	19-137	1	43	
1,1-Dichloroethene	ug/kg	ND	101	101	80.7	75.5	80	75	27-143	7	41	
1,2-Dichloroethane	ug/kg	ND	101	101	73.9	69.7	73	69	21-147	6	38	
1,2-Dichloropropane	ug/kg	ND	101	101	74.7	76.4	74	75	15-145	2	43	
2-Butanone (MEK)	ug/kg	ND	506	506	343	355	68	70	10-160	3	50	
2-Hexanone	ug/kg	ND	506	506	425	403	84	80	10-160	5	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	506	506	380	373	75	74	10-152	2	47	
Acetone	ug/kg	ND	506	506	333	322	66	64	10-160	3	49	
Benzene	ug/kg	ND	101	101	75.3	75.2	74	74	22-144	0	38	
Bromodichloromethane	ug/kg	ND	101	101	78.0	75.9	77	75	10-143	3	42	
Bromoform	ug/kg	ND	101	101	72.1	73.1	71	72	10-145	1	44	
Bromomethane	ug/kg	ND	101	101	59.3	60.8	59	60	10-137	3	47	
Carbon disulfide	ug/kg	ND	101	101	80.5	104	79	103	10-142	26	44	
Carbon tetrachloride	ug/kg	ND	101	101	77.3	77.9	76	77	15-153	1	45	
Chlorobenzene	ug/kg	ND	101	101	72.9	73.1	72	72	10-145	0	46	
Chloroethane	ug/kg	ND	101	101	69.6	71.2	69	70	17-134	2	42	
Chloroform	ug/kg	ND	101	101	72.1	67.1	71	66	17-138	7	44	
Chloromethane	ug/kg	ND	101	101	55.1	43.1	54	43	10-128	24	39	
cis-1,2-Dichloroethene	ug/kg	ND	101	101	80.5	80.1	80	79	17-140	1	46	
cis-1,3-Dichloropropene	ug/kg	ND	101	101	70.1	69.8	69	69	10-142	0	43	
Dibromochloromethane	ug/kg	ND	101	101	73.9	74.4	73	73	10-149	1	42	
Ethylbenzene	ug/kg	ND	101	101	79.2	79.2	78	78	10-154	0	42	
Methylene chloride	ug/kg	7.4	101	101	59.3	60.0	51	52	15-140	1	46	
Styrene	ug/kg	ND	101	101	76.4	72.8	75	72	10-142	5	44	
Tetrachloroethene	ug/kg	ND	101	101	77.9	76.8	77	76	10-150	1	48	
Toluene	ug/kg	ND	101	101	77.3	77.2	76	76	11-150	0	40	
trans-1,2-Dichloroethene	ug/kg	ND	101	101	76.8	73.2	76	72	20-140	5	42	
trans-1,3-Dichloropropene	ug/kg	ND	101	101	68.8	68.0	68	67	10-149	1	41	
Trichloroethene	ug/kg	ND	101	101	99.3	101	98	100	14-146	2	45	
Vinyl chloride	ug/kg	ND	101	101	74.7	71.9	74	71	19-131	4	37	
Xylene (Total)	ug/kg	ND	303	303	224	223	74	74	10-154	0	41	
1,2-Dichloroethane-d4 (S)	%						100	100	75-129			
4-Bromofluorobenzene (S)	%						98	98	76-123			
Toluene-d8 (S)	%						100	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: MSV/63498
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175425007

METHOD BLANK: 1424041
Matrix: Solid
Associated Lab Samples: 60175425007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloropropane	ug/kg	ND	5.0	08/12/14 09:37	
2-Butanone (MEK)	ug/kg	ND	10.0	08/12/14 09:37	
2-Hexanone	ug/kg	ND	20.0	08/12/14 09:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/12/14 09:37	
Acetone	ug/kg	ND	20.0	08/12/14 09:37	
Benzene	ug/kg	ND	5.0	08/12/14 09:37	
Bromodichloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Bromoform	ug/kg	ND	5.0	08/12/14 09:37	
Bromomethane	ug/kg	ND	5.0	08/12/14 09:37	
Carbon disulfide	ug/kg	ND	5.0	08/12/14 09:37	
Carbon tetrachloride	ug/kg	ND	5.0	08/12/14 09:37	
Chlorobenzene	ug/kg	ND	5.0	08/12/14 09:37	
Chloroethane	ug/kg	ND	5.0	08/12/14 09:37	
Chloroform	ug/kg	ND	5.0	08/12/14 09:37	
Chloromethane	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Dibromochloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Ethylbenzene	ug/kg	ND	5.0	08/12/14 09:37	
Methylene chloride	ug/kg	ND	5.0	08/12/14 09:37	
Styrene	ug/kg	ND	5.0	08/12/14 09:37	
Tetrachloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Toluene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Trichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Vinyl chloride	ug/kg	ND	5.0	08/12/14 09:37	
Xylene (Total)	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane-d4 (S)	%	95	75-129	08/12/14 09:37	
4-Bromofluorobenzene (S)	%	98	76-123	08/12/14 09:37	
Toluene-d8 (S)	%	101	80-120	08/12/14 09:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

LABORATORY CONTROL SAMPLE: 1424042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.9	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.1	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.4	91	76-120	
1,1-Dichloroethane	ug/kg	100	99.4	99	71-120	
1,1-Dichloroethene	ug/kg	100	102	102	76-130	
1,2-Dichloroethane	ug/kg	100	81.6	82	78-120	
1,2-Dichloropropane	ug/kg	100	86.5	87	80-120	
2-Butanone (MEK)	ug/kg	500	393	79	55-135	
2-Hexanone	ug/kg	500	447	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	436	87	71-128	
Acetone	ug/kg	500	495	99	43-144	
Benzene	ug/kg	100	85.4	85	80-120	
Bromodichloromethane	ug/kg	100	88.4	88	80-120	
Bromoform	ug/kg	100	90.4	90	75-124	
Bromomethane	ug/kg	100	74.7	75	38-150	
Carbon disulfide	ug/kg	100	95.0	95	58-137	
Carbon tetrachloride	ug/kg	100	84.2	84	75-140	
Chlorobenzene	ug/kg	100	89.1	89	80-120	
Chloroethane	ug/kg	100	76.9	77	65-127	
Chloroform	ug/kg	100	77.8	78	74-120	
Chloromethane	ug/kg	100	41.1	41	39-138	
cis-1,2-Dichloroethene	ug/kg	100	88.7	89	76-124	
cis-1,3-Dichloropropene	ug/kg	100	80.7	81	82-120	L0
Dibromochloromethane	ug/kg	100	89.1	89	80-124	
Ethylbenzene	ug/kg	100	88.2	88	80-120	
Methylene chloride	ug/kg	100	83.5	83	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	87.9	88	78-128	
Toluene	ug/kg	100	84.7	85	79-120	
trans-1,2-Dichloroethene	ug/kg	100	98.2	98	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.2	85	80-124	
Trichloroethene	ug/kg	100	88.5	88	80-120	
Vinyl chloride	ug/kg	100	72.5	72	57-132	
Xylene (Total)	ug/kg	300	264	88	79-120	
1,2-Dichloroethane-d4 (S)	%			91	75-129	
4-Bromofluorobenzene (S)	%			97	76-123	
Toluene-d8 (S)	%			100	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

QC Batch: PMST/9898 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

METHOD BLANK: 1423546 Matrix: Solid
Associated Lab Samples: 60175425001, 60175425002, 60175425003, 60175425004, 60175425005, 60175425006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/11/14 00:00	

SAMPLE DUPLICATE: 1423547

Parameter	Units	60175425001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	16.6	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

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.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ft. Smith Whirlpool Soil
Pace Project No.: 60175425

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175425001	**DP-41 (4.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425002	**DP-41 (10.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425003	**DP-41 (14.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425004	**DP-42 (4.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425005	**DP-42 (8-0 FT) - 082014**	EPA 8260	MSV/63488		
60175425006	**DP-42 (12.0 FT) - 082014**	EPA 8260	MSV/63488		
60175425007	**TB06-20140808**	EPA 8260	MSV/63498		
60175425001	**DP-41 (4.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425002	**DP-41 (10.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425003	**DP-41 (14.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425004	**DP-42 (4.0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425005	**DP-42 (8-0 FT) - 082014**	ASTM D2974	PMST/9898		
60175425006	**DP-42 (12.0 FT) - 082014**	ASTM D2974	PMST/9898		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60175425

60175425

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zpac

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 8/9

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1 day
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	(☑Yes) ☐No ☑N/A AH 8/9	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: SL	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 102813-3	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AL

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 8/11/17 8/11/17

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A **Required** Client Information		Section B **Required** Project Information		Section C Invoice Information	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:	1-DAY TAT	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N): N

Pace Project No./Lab I.D.: 60175425

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	~~DP-42~~ DP-41 (4.0FT)-082014	SL	G			8/8/14	0740		5	X						X	X		X		1(BP3U)1(DF6M)1(DF9B)2(VG9U) 01
2	DP-41 (10.0FT)-082014						0805														02
3	DP-41 (14.0FT)-082014						0815														03
4	DP-42 (4.0FT)-082014						1020														04
5	DP-42 (8.0FT)-082014						1030														05
6	DP-42 (12.0FT)-082014						1040														06
7	TripBlank406-082014	WT							2												07
8	TempBlank	WT							1												
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
1-DAY TAT! (24 hr.)	[signature]	8/8/14	1745	[signature] /PASI	8/9	0132	2.2	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/8/14

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

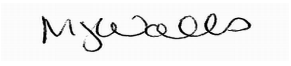
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60175525

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60175525

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175525001	**DP-43-SL (4.0 FT) - 20140811**	Solid	08/11/14 09:15	08/12/14 01:30
60175525002	**DP-43-SL (10.0 FT) - 20140811**	Solid	08/11/14 09:40	08/12/14 01:30
60175525003	**DP-43-SL (19.0 FT) - 20140811**	Solid	08/11/14 10:07	08/12/14 01:30
60175525004	**DP-44-SL (4.0 FT) - 20140811**	Solid	08/11/14 11:09	08/12/14 01:30
60175525005	**DP-44-SL (11.0 FT) - 20140811**	Solid	08/11/14 11:28	08/12/14 01:30
60175525006	**DP-44-SL (18.0 FT) - 20140811**	Solid	08/11/14 11:41	08/12/14 01:30
60175525007	**DP-44-SL (21.5 FT) - 20140811**	Solid	08/11/14 12:07	08/12/14 01:30
60175525008	**DP-45-SL (4.0 FT) - 20140811**	Solid	08/11/14 14:49	08/12/14 01:30
60175525009	**DP-45-SL (12.0 FT) - 20140811**	Solid	08/11/14 15:10	08/12/14 01:30
60175525010	**DP-45-SL (18.0 FT) - 20140811**	Solid	08/11/14 15:25	08/12/14 01:30

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175525001	**DP-43-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525002	**DP-43-SL (10.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525003	**DP-43-SL (19.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525004	**DP-44-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525005	**DP-44-SL (11.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525006	**DP-44-SL (18.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525007	**DP-44-SL (21.5 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525008	**DP-45-SL (4.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525009	**DP-45-SL (12.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1
60175525010	**DP-45-SL (18.0 FT) - 20140811**	EPA 8260	TJT	37
		ASTM D2974	TMD	1

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60175525

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 13, 2014

General Information:
10 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.

QC Batch: MSV/63498

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1424042)
  - cis-1,3-Dichloropropene

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-43-SL (4.0 FT) - 20140811 **Lab ID: 60175525001** Collected: 08/11/14 09:15 Received: 08/12/14 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								
Acetone	ND	ug/kg	24.3	12.1	1		08/12/14 12:27	67-64-1	
Benzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	71-43-2	
Bromodichloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-27-4	
Bromoform	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-25-2	
Bromomethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	12.1	6.1	1		08/12/14 12:27	78-93-3	
Carbon disulfide	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	108-90-7	
Chloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-00-3	
Chloroform	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	67-66-3	
Chloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	74-87-3	
Dibromochloromethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	124-48-1	
1,1-Dichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	100-41-4	
2-Hexanone	ND	ug/kg	24.3	12.1	1		08/12/14 12:27	591-78-6	
Methylene chloride	**3.3J**	ug/kg	6.1	3.0	1		08/12/14 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.1	6.1	1		08/12/14 12:27	108-10-1	
Styrene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	127-18-4	
Toluene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-00-5	
Trichloroethene	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	79-01-6	
Vinyl chloride	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	75-01-4	
Xylene (Total)	ND	ug/kg	6.1	3.0	1		08/12/14 12:27	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/12/14 12:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/12/14 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/12/14 12:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**22.1**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-43-SL (10.0 FT) - 20140811 **Lab ID: 60175525002** Collected: 08/11/14 09:40 Received: 08/12/14 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								
Acetone	ND	ug/kg	17.8	8.9	1		08/12/14 12:42	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/12/14 12:42	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	100-41-4	
2-Hexanone	ND	ug/kg	17.8	8.9	1		08/12/14 12:42	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/12/14 12:42	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/12/14 12:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 12:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/12/14 12:42	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		08/12/14 12:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.7**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-43-SL (19.0 FT) - 20140811 **Lab ID: 60175525003** Collected: 08/11/14 10:07 Received: 08/12/14 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								
Acetone	ND	ug/kg	16.7	8.4	1		08/12/14 12:58	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.4	4.2	1		08/12/14 12:58	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	100-41-4	
2-Hexanone	ND	ug/kg	16.7	8.4	1		08/12/14 12:58	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.4	4.2	1		08/12/14 12:58	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/12/14 12:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 12:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/12/14 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-129		1		08/12/14 12:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.9**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (4.0 FT) - 20140811 **Lab ID: 60175525004** Collected: 08/11/14 11:09 Received: 08/12/14 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								
Acetone	ND	ug/kg	23.3	11.7	1		08/12/14 13:13	67-64-1	
Benzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	71-43-2	
Bromodichloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-27-4	
Bromoform	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-25-2	
Bromomethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.7	5.8	1		08/12/14 13:13	78-93-3	
Carbon disulfide	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	108-90-7	
Chloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-00-3	
Chloroform	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	67-66-3	
Chloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	74-87-3	
Dibromochloromethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	100-41-4	
2-Hexanone	ND	ug/kg	23.3	11.7	1		08/12/14 13:13	591-78-6	
Methylene chloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	5.8	1		08/12/14 13:13	108-10-1	
Styrene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	127-18-4	
Toluene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-00-5	
Trichloroethene	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	79-01-6	
Vinyl chloride	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	75-01-4	
Xylene (Total)	ND	ug/kg	5.8	2.9	1		08/12/14 13:13	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:13	2037-26-5	
4-Bromofluorobenzene (S)	103	%	76-123		1		08/12/14 13:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/12/14 13:13	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**22.1**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (11.0 FT) - 20140811 **Lab ID: 60175525005** Collected: 08/11/14 11:28 Received: 08/12/14 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								
Acetone	ND	ug/kg	18.4	9.2	1		08/12/14 13:29	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/12/14 13:29	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	100-41-4	
2-Hexanone	ND	ug/kg	18.4	9.2	1		08/12/14 13:29	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/12/14 13:29	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/12/14 13:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/12/14 13:29	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/12/14 13:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	75-129		1		08/12/14 13:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**18.3**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (18.0 FT) - 20140811 **Lab ID: 60175525006** Collected: 08/11/14 11:41 Received: 08/12/14 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								
Acetone	ND	ug/kg	19.6	9.8	1		08/12/14 13:44	67-64-1	
Benzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-27-4	
Bromoform	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/12/14 13:44	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-00-3	
Chloroform	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	100-41-4	
2-Hexanone	ND	ug/kg	19.6	9.8	1		08/12/14 13:44	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/12/14 13:44	108-10-1	
Styrene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	127-18-4	
Toluene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.4	1		08/12/14 13:44	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/12/14 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	75-129		1		08/12/14 13:44	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**8.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-44-SL (21.5 FT) - 20140811 **Lab ID: 60175525007** Collected: 08/11/14 12:07 Received: 08/12/14 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								
Acetone	ND	ug/kg	20.4	10.2	1		08/12/14 14:00	67-64-1	
Benzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	71-43-2	
Bromodichloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-27-4	
Bromoform	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-25-2	
Bromomethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.2	5.1	1		08/12/14 14:00	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-00-3	
Chloroform	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	67-66-3	
Chloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	74-87-3	
Dibromochloromethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	100-41-4	
2-Hexanone	ND	ug/kg	20.4	10.2	1		08/12/14 14:00	591-78-6	
Methylene chloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	5.1	1		08/12/14 14:00	108-10-1	
Styrene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	127-18-4	
Toluene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-00-5	
Trichloroethene	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	79-01-6	
Vinyl chloride	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	75-01-4	
Xylene (Total)	ND	ug/kg	5.1	2.6	1		08/12/14 14:00	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/12/14 14:00	2037-26-5	
4-Bromofluorobenzene (S)	97	%	76-123		1		08/12/14 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/12/14 14:00	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (4.0 FT) - 20140811 **Lab ID: 60175525008** Collected: 08/11/14 14:49 Received: 08/12/14 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								
Acetone	**37.1**	ug/kg	17.7	8.9	1		08/12/14 14:15	67-64-1	
Benzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	71-43-2	
Bromodichloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-27-4	
Bromoform	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-25-2	
Bromomethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.9	4.4	1		08/12/14 14:15	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	108-90-7	
Chloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-00-3	
Chloroform	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	67-66-3	
Chloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	100-41-4	
2-Hexanone	ND	ug/kg	17.7	8.9	1		08/12/14 14:15	591-78-6	
Methylene chloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	4.4	1		08/12/14 14:15	108-10-1	
Styrene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	127-18-4	
Toluene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-00-5	
Trichloroethene	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	79-01-6	
Vinyl chloride	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	75-01-4	
Xylene (Total)	ND	ug/kg	4.4	2.2	1		08/12/14 14:15	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 14:15	2037-26-5	
4-Bromofluorobenzene (S)	102	%	76-123		1		08/12/14 14:15	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/12/14 14:15	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.3**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (12.0 FT) - 20140811 **Lab ID: 60175525009** Collected: 08/11/14 15:10 Received: 08/12/14 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								
Acetone	ND	ug/kg	19.7	9.8	1		08/12/14 14:31	67-64-1	
Benzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	71-43-2	
Bromodichloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-27-4	
Bromoform	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-25-2	
Bromomethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.8	4.9	1		08/12/14 14:31	78-93-3	
Carbon disulfide	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	108-90-7	
Chloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-00-3	
Chloroform	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	67-66-3	
Chloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	74-87-3	
Dibromochloromethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	100-41-4	
2-Hexanone	ND	ug/kg	19.7	9.8	1		08/12/14 14:31	591-78-6	
Methylene chloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.8	4.9	1		08/12/14 14:31	108-10-1	
Styrene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	127-18-4	
Toluene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-00-5	
Trichloroethene	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	79-01-6	
Vinyl chloride	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	75-01-4	
Xylene (Total)	ND	ug/kg	4.9	2.5	1		08/12/14 14:31	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/12/14 14:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/12/14 14:31	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/12/14 14:31	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**16.4**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175525

Sample: DP-45-SL (18.0 FT) - 20140811 **Lab ID: 60175525010** Collected: 08/11/14 15:25 Received: 08/12/14 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								
Acetone	ND	ug/kg	18.0	9.0	1		08/12/14 14:46	67-64-1	
Benzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	71-43-2	
Bromodichloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-27-4	
Bromoform	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-25-2	
Bromomethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.0	4.5	1		08/12/14 14:46	78-93-3	
Carbon disulfide	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	108-90-7	
Chloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-00-3	
Chloroform	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	67-66-3	
Chloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	10061-01-5	L2
trans-1,3-Dichloropropene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	100-41-4	
2-Hexanone	ND	ug/kg	18.0	9.0	1		08/12/14 14:46	591-78-6	
Methylene chloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.0	4.5	1		08/12/14 14:46	108-10-1	
Styrene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	127-18-4	
Toluene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-00-5	
Trichloroethene	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	79-01-6	
Vinyl chloride	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	75-01-4	
Xylene (Total)	ND	ug/kg	4.5	2.3	1		08/12/14 14:46	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/12/14 14:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	76-123		1		08/12/14 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	75-129		1		08/12/14 14:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.5**	%	0.50	0.50	1		08/12/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

QC Batch: MSV/63498 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

METHOD BLANK: 1424041 Matrix: Solid
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,1-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloropropane	ug/kg	ND	5.0	08/12/14 09:37	
2-Butanone (MEK)	ug/kg	ND	10.0	08/12/14 09:37	
2-Hexanone	ug/kg	ND	20.0	08/12/14 09:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/12/14 09:37	
Acetone	ug/kg	ND	20.0	08/12/14 09:37	
Benzene	ug/kg	ND	5.0	08/12/14 09:37	
Bromodichloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Bromoform	ug/kg	ND	5.0	08/12/14 09:37	
Bromomethane	ug/kg	ND	5.0	08/12/14 09:37	
Carbon disulfide	ug/kg	ND	5.0	08/12/14 09:37	
Carbon tetrachloride	ug/kg	ND	5.0	08/12/14 09:37	
Chlorobenzene	ug/kg	ND	5.0	08/12/14 09:37	
Chloroethane	ug/kg	ND	5.0	08/12/14 09:37	
Chloroform	ug/kg	ND	5.0	08/12/14 09:37	
Chloromethane	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Dibromochloromethane	ug/kg	ND	5.0	08/12/14 09:37	
Ethylbenzene	ug/kg	ND	5.0	08/12/14 09:37	
Methylene chloride	ug/kg	ND	5.0	08/12/14 09:37	
Styrene	ug/kg	ND	5.0	08/12/14 09:37	
Tetrachloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Toluene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/12/14 09:37	
Trichloroethene	ug/kg	ND	5.0	08/12/14 09:37	
Vinyl chloride	ug/kg	ND	5.0	08/12/14 09:37	
Xylene (Total)	ug/kg	ND	5.0	08/12/14 09:37	
1,2-Dichloroethane-d4 (S)	%	95	75-129	08/12/14 09:37	
4-Bromofluorobenzene (S)	%	98	76-123	08/12/14 09:37	
Toluene-d8 (S)	%	101	80-120	08/12/14 09:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

LABORATORY CONTROL SAMPLE: 1424042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	87.9	88	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.1	90	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.4	91	76-120	
1,1-Dichloroethane	ug/kg	100	99.4	99	71-120	
1,1-Dichloroethene	ug/kg	100	102	102	76-130	
1,2-Dichloroethane	ug/kg	100	81.6	82	78-120	
1,2-Dichloropropane	ug/kg	100	86.5	87	80-120	
2-Butanone (MEK)	ug/kg	500	393	79	55-135	
2-Hexanone	ug/kg	500	447	89	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	436	87	71-128	
Acetone	ug/kg	500	495	99	43-144	
Benzene	ug/kg	100	85.4	85	80-120	
Bromodichloromethane	ug/kg	100	88.4	88	80-120	
Bromoform	ug/kg	100	90.4	90	75-124	
Bromomethane	ug/kg	100	74.7	75	38-150	
Carbon disulfide	ug/kg	100	95.0	95	58-137	
Carbon tetrachloride	ug/kg	100	84.2	84	75-140	
Chlorobenzene	ug/kg	100	89.1	89	80-120	
Chloroethane	ug/kg	100	76.9	77	65-127	
Chloroform	ug/kg	100	77.8	78	74-120	
Chloromethane	ug/kg	100	41.1	41	39-138	
cis-1,2-Dichloroethene	ug/kg	100	88.7	89	76-124	
cis-1,3-Dichloropropene	ug/kg	100	80.7	81	82-120	L0
Dibromochloromethane	ug/kg	100	89.1	89	80-124	
Ethylbenzene	ug/kg	100	88.2	88	80-120	
Methylene chloride	ug/kg	100	83.5	83	70-123	
Styrene	ug/kg	100	89.3	89	79-120	
Tetrachloroethene	ug/kg	100	87.9	88	78-128	
Toluene	ug/kg	100	84.7	85	79-120	
trans-1,2-Dichloroethene	ug/kg	100	98.2	98	76-124	
trans-1,3-Dichloropropene	ug/kg	100	85.2	85	80-124	
Trichloroethene	ug/kg	100	88.5	88	80-120	
Vinyl chloride	ug/kg	100	72.5	72	57-132	
Xylene (Total)	ug/kg	300	264	88	79-120	
1,2-Dichloroethane-d4 (S)	%			91	75-129	
4-Bromofluorobenzene (S)	%			97	76-123	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424051 1424052

Parameter	Units	60175350001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	5950	5950	5940	5590	100	94	21-144	6	43	
1,1,2,2-Tetrachloroethane	ug/kg	636	5950	5950	6600	6190	100	93	10-151	6	46	
1,1,2-Trichloroethane	ug/kg	595	5950	5950	6340	6180	97	94	10-140	2	46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424051 1424052

Parameter	Units	60175350001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/kg	ND	5950	5950	6900	6240	116	105	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	5950	5950	6550	6170	110	104	27-143	6	41	
1,2-Dichloroethane	ug/kg	312	5950	5950	5490	5290	87	84	21-147	4	38	
1,2-Dichloropropane	ug/kg	347	5950	5950	5640	5520	89	87	15-145	2	43	
2-Butanone (MEK)	ug/kg	ND	29700	29700	25300	25400	85	85	10-160	1	50	
2-Hexanone	ug/kg	17600	29700	29700	48300	48300	103	103	10-160	0	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	29700	29700	32300	32500	107	108	10-152	0	47	
Acetone	ug/kg	ND	29700	29700	32100	25600	108	86	10-160	23	49	
Benzene	ug/kg	ND	5950	5950	5710	5440	94	90	22-144	5	38	
Bromodichloromethane	ug/kg	ND	5950	5950	5730	5580	95	93	10-143	3	42	
Bromoform	ug/kg	ND	5950	5950	5680	5590	92	90	10-145	2	44	
Bromomethane	ug/kg	ND	5950	5950	4580	4360	72	69	10-137	5	47	
Carbon disulfide	ug/kg	ND	5950	5950	7040	5250	118	88	10-142	29	44	
Carbon tetrachloride	ug/kg	ND	5950	5950	5710	5190	96	87	15-153	10	45	
Chlorobenzene	ug/kg	ND	5950	5950	5690	5400	94	89	10-145	5	46	
Chloroethane	ug/kg	ND	5950	5950	5140	4700	86	79	17-134	9	42	
Chloroform	ug/kg	ND	5950	5950	5180	4980	87	84	17-138	4	44	
Chloromethane	ug/kg	ND	5950	5950	4170	3970	70	67	10-128	5	39	
cis-1,2-Dichloroethene	ug/kg	ND	5950	5950	5770	5590	97	94	17-140	3	46	
cis-1,3-Dichloropropene	ug/kg	ND	5950	5950	5410	5220	91	88	10-142	4	43	
Dibromochloromethane	ug/kg	ND	5950	5950	5700	5360	94	88	10-149	6	42	
Ethylbenzene	ug/kg	2940	5950	5950	8760	8350	98	91	10-154	5	42	
Methylene chloride	ug/kg	ND	5950	5950	5560	4150	91	68	15-140	29	46	
Styrene	ug/kg	ND	5950	5950	6020	5810	97	94	10-142	4	44	
Tetrachloroethene	ug/kg	ND	5950	5950	5840	5590	98	94	10-150	4	48	
Toluene	ug/kg	2250	5950	5950	7970	7760	96	93	11-150	3	40	
trans-1,2-Dichloroethene	ug/kg	ND	5950	5950	6420	5160	108	87	20-140	22	42	
trans-1,3-Dichloropropene	ug/kg	ND	5950	5950	5390	5040	91	85	10-149	7	41	
Trichloroethene	ug/kg	ND	5950	5950	5890	5650	99	95	14-146	4	45	
Vinyl chloride	ug/kg	ND	5950	5950	4960	4650	83	78	19-131	6	37	
Xylene (Total)	ug/kg	52800	17800	17800	69800	67600	95	83	10-154	3	41	
1,2-Dichloroethane-d4 (S)	%						95	98	75-129			
4-Bromofluorobenzene (S)	%						102	100	76-123			
Toluene-d8 (S)	%						104	105	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175525

QC Batch: PMST/9905 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

METHOD BLANK: 1424567 Matrix: Solid
Associated Lab Samples: 60175525001, 60175525002, 60175525003, 60175525004, 60175525005, 60175525006, 60175525007, 60175525008, 60175525009, 60175525010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/12/14 00:00	

SAMPLE DUPLICATE: 1424568

Parameter	Units	60175525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.1	21.2	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60175525

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.

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60175525

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175525001	**DP-43-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525002	**DP-43-SL (10.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525003	**DP-43-SL (19.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525004	**DP-44-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525005	**DP-44-SL (11.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525006	**DP-44-SL (18.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525007	**DP-44-SL (21.5 FT) - 20140811**	EPA 8260	MSV/63498		
60175525008	**DP-45-SL (4.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525009	**DP-45-SL (12.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525010	**DP-45-SL (18.0 FT) - 20140811**	EPA 8260	MSV/63498		
60175525001	**DP-43-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525002	**DP-43-SL (10.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525003	**DP-43-SL (19.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525004	**DP-44-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525005	**DP-44-SL (11.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525006	**DP-44-SL (18.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525007	**DP-44-SL (21.5 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525008	**DP-45-SL (4.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525009	**DP-45-SL (12.0 FT) - 20140811**	ASTM D2974	PMST/9905		
60175525010	**DP-45-SL (18.0 FT) - 20140811**	ASTM D2974	PMST/9905		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60175525

60175525

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ xroad

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 ☑ ZPlC

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AR 8/12/14

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 1Day
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☑Yes ☐No ☐N/A 8/12	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: Water WT/SL		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☑Yes~~ ☑No ☐N/A	
Pace Trip Blank lot # (if purchased): ~~020314-3~~ Water		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AR

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CR JM Date: 8/12

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A — **Required** Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone:	913-553-5926 Fax:
Requested Due Date/TAT:	24 HR

Section B — **Required** Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D — **Required** Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 60175525

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 client specific list		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-43-SL(4.0FT)-20140811	SL	G			8/11/14	0915		5	2					1	1		X	1D69M 1D69B 2L69U		18P8U 01
2	DP-43-SL(10.0FT)-20140811	SL	G			8/11/14	0940		5	3					1	1		X	↓		02
3	DP-43-SL(19.0FT)-20140811	SL	G			8/11/14	1007		5	3					1	1		X	↓		03
4	DP-44-SL(4.0FT)-20140811	SL	G			8/11/14	1109		5	3					1	1		X	↓		04
5	DP-44-SL(11.0FT)-20140811	SL	G			8/11/14	1128		5	3					1	1		X	↓		05
6	DP-44-SL(18.0FT)-20140811	SL	G			8/11/14	1141		5	3					1	1		X	↓		06
7	DP-44-SL(21.5FT)-20140811	SL	G			8/11/14	1207		5	3					1	1		X	↓		07
8	DP-45-SL(4.0FT)-20140811	SL	G			8/11/14	1449		5	3					1	1		X	↓		08
9	DP-45-SL(12.0FT)-20140811	SL	G			8/11/14	1510		5	3					1	1		X	↓		09
10	DP-45-SL(18.0FT)20140811	SL	G			8/11/14	1525		5	3					1	1		X	↓		010
11	ME								5 ME												
12									5 ME												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / ENVIRON	8/11/14	1730	[signature] PASI	8/12/14	0130	2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael Eddings

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/11/14

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 13, 2014

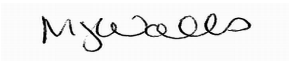
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH, AR
Pace Project No.: 60175526

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH, AR
Pace Project No.: 60175526

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH, AR
Pace Project No.: 60175526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175526001	**DP-41 - 082014**	Water	08/11/14 11:50	08/12/14 01:30
60175526002	**DP-40 - 082014**	Water	08/11/14 11:30	08/12/14 01:30
60175526003	**DP-42 - 082014**	Water	08/11/14 13:05	08/12/14 01:30
60175526004	**DP-43 - 082014**	Water	08/11/14 15:35	08/12/14 01:30
60175526005	**DP-44 - 082014**	Water	08/11/14 14:20	08/12/14 01:30
60175526006	**DP-45 - 082014**	Water	08/11/14 17:00	08/12/14 01:30
60175526007	**TB7-20140811**	Water	08/11/14 17:00	08/12/14 01:30

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH, AR
Pace Project No.: 60175526

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175526001	**DP-41 - 082014**	EPA 5030B/8260	PRG	38
60175526002	**DP-40 - 082014**	EPA 5030B/8260	PRG	38
60175526003	**DP-42 - 082014**	EPA 5030B/8260	PRG	38
60175526004	**DP-43 - 082014**	EPA 5030B/8260	PRG	38
60175526005	**DP-44 - 082014**	EPA 5030B/8260	PRG	38
60175526006	**DP-45 - 082014**	EPA 5030B/8260	PRG	38
60175526007	**TB7-20140811**	EPA 5030B/8260	PRG	38

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH, AR
Pace Project No.: 60175526

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Environ_AR
Date: August 13, 2014

General Information:
7 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.

QC Batch: MSV/63499

B: Analyte was detected in the associated method blank.
- BLANK for HBN 350147 [MSV/6349 (Lab ID: 1424053)
  - Methylene chloride

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/63499

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

Additional Comments:

Analyte Comments:

QC Batch: MSV/63499

1e: Sample was diluted due to the presence of high levels of sediment in the vial.
- DP-44 - 082014 (Lab ID: 60175526005)
  - 4-Bromofluorobenzene (S)

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-41 - 082014 **Lab ID: 60175526001** Collected: 08/11/14 11:50 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**5.9J**	ug/L	10.0	5.0	1		08/12/14 12:33	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 12:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 12:33	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 12:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 12:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 12:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 12:33	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 12:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 12:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 12:33	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 12:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 12:33	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 12:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:33	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 12:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 12:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	80-120		1		08/12/14 12:33	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 12:33	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		08/12/14 12:33	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 12:33		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-40 - 082014 **Lab ID: 60175526002** Collected: 08/11/14 11:30 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**7.5J**	ug/L	10.0	5.0	1		08/12/14 12:47	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 12:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 12:47	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 12:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 12:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 12:47	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 12:47	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 12:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 12:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-35-4	
cis-1,2-Dichloroethene	**0.55J**	ug/L	5.0	0.50	1		08/12/14 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 12:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 12:47	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 12:47	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 12:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 12:47	79-00-5	
Trichloroethene	**3.2J**	ug/L	5.0	0.50	1		08/12/14 12:47	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 12:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 12:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		08/12/14 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		08/12/14 12:47	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		08/12/14 12:47	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 12:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-42 - 082014 **Lab ID: 60175526003** Collected: 08/11/14 13:05 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**6.4J**	ug/L	10.0	5.0	1		08/12/14 13:01	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:01	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:01	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:01	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:01	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:01	79-00-5	
Trichloroethene	**6.4**	ug/L	5.0	0.50	1		08/12/14 13:01	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		08/12/14 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		08/12/14 13:01	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		08/12/14 13:01	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:01		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-43 - 082014 **Lab ID: 60175526004** Collected: 08/11/14 15:35 Received: 08/12/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**6.9J**	ug/L	10.0	5.0	1		08/12/14 13:16	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:16	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:16	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:16	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:16	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:16	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:16	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:16	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		08/12/14 13:16	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 13:16	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		08/12/14 13:16	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-44 - 082014 **Lab ID: 60175526005** Collected: 08/11/14 14:20 Received: 08/12/14 01:30 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	50.0	25.0	5		08/12/14 13:30	67-64-1	
Benzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	71-43-2	
Bromodichloromethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-27-4	
Bromoform	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-25-2	
Bromomethane	ND	ug/L	35.0	12.5	5		08/12/14 13:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	25.0	5		08/12/14 13:30	78-93-3	
Carbon disulfide	ND	ug/L	50.0	12.5	5		08/12/14 13:30	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	2.5	5		08/12/14 13:30	56-23-5	
Chlorobenzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	108-90-7	
Chloroethane	ND	ug/L	50.0	2.5	5		08/12/14 13:30	75-00-3	
Chloroform	ND	ug/L	25.0	2.5	5		08/12/14 13:30	67-66-3	
Chloromethane	ND	ug/L	50.0	2.5	5		08/12/14 13:30	74-87-3	
Dibromochloromethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	124-48-1	
1,1-Dichloroethane	ND	ug/L	12.0	2.5	5		08/12/14 13:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	5		08/12/14 13:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	5		08/12/14 13:30	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	100-41-4	
2-Hexanone	ND	ug/L	50.0	25.0	5		08/12/14 13:30	591-78-6	
Methylene chloride	**3.4J**	ug/L	25.0	2.5	5		08/12/14 13:30	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	12.5	5		08/12/14 13:30	108-10-1	
Styrene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	5		08/12/14 13:30	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	127-18-4	
Toluene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	2.5	5		08/12/14 13:30	79-00-5	
Trichloroethene	ND	ug/L	25.0	2.5	5		08/12/14 13:30	79-01-6	
Vinyl chloride	ND	ug/L	10.0	2.5	5		08/12/14 13:30	75-01-4	
Xylene (Total)	ND	ug/L	25.0	7.5	5		08/12/14 13:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		5		08/12/14 13:30	460-00-4	1e
1,2-Dichloroethane-d4 (S)	95	%	80-120		5		08/12/14 13:30	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		08/12/14 13:30	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	5		08/12/14 13:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: DP-45 - 082014 **Lab ID: 60175526006** Collected: 08/11/14 17:00 Received: 08/12/14 01:30 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		08/12/14 13:44	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 13:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 13:44	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 13:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 13:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 13:44	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 13:44	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 13:44	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 13:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-35-4	
cis-1,2-Dichloroethene	**1.3J**	ug/L	5.0	0.50	1		08/12/14 13:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 13:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 13:44	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 13:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 13:44	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 13:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 13:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 13:44	79-00-5	
Trichloroethene	**6.8**	ug/L	5.0	0.50	1		08/12/14 13:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 13:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 13:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		08/12/14 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		08/12/14 13:44	17060-07-0	
Toluene-d8 (S)	104	%	80-120		1		08/12/14 13:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 13:44		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH, AR
Pace Project No.: 60175526

Sample: TB7-20140811 **Lab ID: 60175526007** Collected: 08/11/14 17:00 Received: 08/12/14 01:30 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		08/12/14 11:50	67-64-1	
Benzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-25-2	
Bromomethane	ND	ug/L	7.0	2.5	1		08/12/14 11:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	5.0	1		08/12/14 11:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	2.5	1		08/12/14 11:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.50	1		08/12/14 11:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.50	1		08/12/14 11:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.50	1		08/12/14 11:50	67-66-3	
Chloromethane	ND	ug/L	10.0	0.50	1		08/12/14 11:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	124-48-1	
1,1-Dichloroethane	ND	ug/L	2.4	0.50	1		08/12/14 11:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 11:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.50	1		08/12/14 11:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	5.0	1		08/12/14 11:50	591-78-6	
Methylene chloride	ND	ug/L	5.0	0.50	1		08/12/14 11:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2.5	1		08/12/14 11:50	108-10-1	
Styrene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.50	1		08/12/14 11:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	127-18-4	
Toluene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.50	1		08/12/14 11:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.50	1		08/12/14 11:50	79-01-6	
Vinyl chloride	ND	ug/L	2.0	0.50	1		08/12/14 11:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1.5	1		08/12/14 11:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		08/12/14 11:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		08/12/14 11:50	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		08/12/14 11:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		08/12/14 11:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175526

QC Batch: MSV/63499 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60175526001, 60175526002, 60175526003, 60175526004, 60175526005, 60175526006, 60175526007

METHOD BLANK: 1424053 Matrix: Water
Associated Lab Samples: 60175526001, 60175526002, 60175526003, 60175526004, 60175526005, 60175526006, 60175526007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	08/12/14 11:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,1-Dichloroethane	ug/L	ND	2.4	08/12/14 11:17	
1,1-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloroethane	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloropropane	ug/L	ND	5.0	08/12/14 11:17	
2-Butanone (MEK)	ug/L	ND	10.0	08/12/14 11:17	
2-Hexanone	ug/L	ND	10.0	08/12/14 11:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	08/12/14 11:17	
Acetone	ug/L	ND	10.0	08/12/14 11:17	
Benzene	ug/L	ND	5.0	08/12/14 11:17	
Bromodichloromethane	ug/L	ND	5.0	08/12/14 11:17	
Bromoform	ug/L	ND	5.0	08/12/14 11:17	
Bromomethane	ug/L	ND	7.0	08/12/14 11:17	
Carbon disulfide	ug/L	ND	10.0	08/12/14 11:17	
Carbon tetrachloride	ug/L	ND	5.0	08/12/14 11:17	
Chlorobenzene	ug/L	ND	5.0	08/12/14 11:17	
Chloroethane	ug/L	ND	10.0	08/12/14 11:17	
Chloroform	ug/L	ND	5.0	08/12/14 11:17	
Chloromethane	ug/L	ND	10.0	08/12/14 11:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
cis-1,3-Dichloropropene	ug/L	ND	1.0	08/12/14 11:17	
Dibromochloromethane	ug/L	ND	5.0	08/12/14 11:17	
Ethylbenzene	ug/L	ND	5.0	08/12/14 11:17	
Methylene chloride	ug/L	0.53J	5.0	08/12/14 11:17	
Styrene	ug/L	ND	5.0	08/12/14 11:17	
Tetrachloroethene	ug/L	ND	5.0	08/12/14 11:17	
Toluene	ug/L	ND	5.0	08/12/14 11:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/12/14 11:17	
trans-1,3-Dichloropropene	ug/L	ND	1.0	08/12/14 11:17	
Trichloroethene	ug/L	ND	5.0	08/12/14 11:17	
Vinyl chloride	ug/L	ND	2.0	08/12/14 11:17	
Xylene (Total)	ug/L	ND	5.0	08/12/14 11:17	
1,2-Dichloroethane-d4 (S)	%	100	80-120	08/12/14 11:17	
4-Bromofluorobenzene (S)	%	99	80-120	08/12/14 11:17	
Toluene-d8 (S)	%	104	80-120	08/12/14 11:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH, AR
Pace Project No.: 60175526

LABORATORY CONTROL SAMPLE: 1424054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	96	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	73-124	
1,1,2-Trichloroethane	ug/L	20	19.7	98	80-120	
1,1-Dichloroethane	ug/L	20	19.4	97	77-120	
1,1-Dichloroethene	ug/L	20	20.0	100	78-126	
1,2-Dichloroethane	ug/L	20	19.1	96	77-123	
1,2-Dichloropropane	ug/L	20	19.6	98	80-121	
2-Butanone (MEK)	ug/L	100	100	100	52-145	
2-Hexanone	ug/L	100	103	103	57-139	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	71-131	
Acetone	ug/L	100	104	104	32-155	
Benzene	ug/L	20	19.0	95	80-120	
Bromodichloromethane	ug/L	20	18.9	94	80-120	
Bromoform	ug/L	20	19.1	95	73-124	
Bromomethane	ug/L	20	20.1	101	31-144	
Carbon disulfide	ug/L	20	21.8	109	65-125	
Carbon tetrachloride	ug/L	20	19.3	97	78-128	
Chlorobenzene	ug/L	20	19.4	97	80-120	
Chloroethane	ug/L	20	17.8	89	55-137	
Chloroform	ug/L	20	19.3	96	79-120	
Chloromethane	ug/L	20	19.9	100	22-138	
cis-1,2-Dichloroethene	ug/L	20	19.6	98	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.0	95	80-120	
Dibromochloromethane	ug/L	20	20.0	100	80-120	
Ethylbenzene	ug/L	20	19.2	96	80-121	
Methylene chloride	ug/L	20	19.2	96	73-126	
Styrene	ug/L	20	20.1	101	80-120	
Tetrachloroethene	ug/L	20	19.3	96	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	79-121	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	80-127	
Trichloroethene	ug/L	20	19.9	100	80-120	
Vinyl chloride	ug/L	20	18.7	94	59-120	
Xylene (Total)	ug/L	60	59.5	99	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			99	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH, AR
Pace Project No.: 60175526

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/63499

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

ANALYTE QUALIFIERS

1e Sample was diluted due to the presence of high levels of sediment in the vial.

B Analyte was detected in the associated method blank.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH, AR
Pace Project No.: 60175526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175526001	**DP-41 - 082014**	EPA 5030B/8260	MSV/63499		
60175526002	**DP-40 - 082014**	EPA 5030B/8260	MSV/63499		
60175526003	**DP-42 - 082014**	EPA 5030B/8260	MSV/63499		
60175526004	**DP-43 - 082014**	EPA 5030B/8260	MSV/63499		
60175526005	**DP-44 - 082014**	EPA 5030B/8260	MSV/63499		
60175526006	**DP-45 - 082014**	EPA 5030B/8260	MSV/63499		
60175526007	**TB7-20140811**	EPA 5030B/8260	MSV/63499		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60175526

60175526

Optional
Proj Due Date:
Proj Name:

Client Name: Environ

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ xroad

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 ☒ ziplc

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: [initials] 8/12/14

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes	☐No	☐N/A	6. ~~Kit75~~ [initials] 8/12
Rush Turn Around Time requested:	☒Yes	☐No	☐N/A	7. 1Day
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT / SL [initials]				13.
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	14.
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 020314-3				15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☒No	☐N/A	17. List State: AR

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

Person Contacted: ______ Date/Time: ______

Comments/ Resolution: ______

Project Manager Review: [signature] Date: 8/12

Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	24HR

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: AR

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-41-082014	WT	G			8/11/14	1150		1				X					X		60175526 1D69AH 01
2	DP-40-082014	WT	G			8/11/14	1130		3				X					X		3D69AH 02
3	DP-42-082014	WT	G			8/11/14	1305		3				X					X		03
4	DP-43-082014	WT	G			8/11/14	1535		3				X					X		04
5	DP-44-082014	WT	G			8/11/14	1420		3				X					X		05
6	DP-45-082014	WT	G			8/11/14	1700		3				X					X		06
7																				2D69AH TB 07
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / ENVIRON	8/11/14	1730	[signature] PASE	8/12/14	0130	2.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/11/14

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 14, 2014

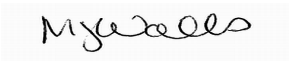
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: FORT SMITH AR
Pace Project No.: 60175646

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: FORT SMITH AR
Pace Project No.: 60175646

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175646001	**DP-46-SL (4.5 FT) - 20140812**	Solid	08/12/14 08:00	08/13/14 08:30
60175646002	**DP-46-SL (13.5 FT) - 20140812**	Solid	08/12/14 08:30	08/13/14 08:30
60175646003	**DP-46-SL (18.0 FT) - 20140812**	Solid	08/12/14 08:50	08/13/14 08:30
60175646004	**DP-47-SL (5.0 FT) - 20140812**	Solid	08/12/14 13:50	08/13/14 08:30
60175646005	**DP-47-SL (22.0 FT) - 20140812**	Solid	08/12/14 14:40	08/13/14 08:30
60175646006	**TB15-20140812**	Solid	08/12/14 08:00	08/13/14 08:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175646001	**DP-46-SL (4.5 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646002	**DP-46-SL (13.5 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646003	**DP-46-SL (18.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646004	**DP-47-SL (5.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646005	**DP-47-SL (22.0 FT) - 20140812**	EPA 8260	TJT	37
		ASTM D2974	DWC	1
60175646006	**TB15-20140812**	EPA 8260	TJT	37

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: FORT SMITH AR
Pace Project No.: 60175646

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 14, 2014

General Information:
6 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.

QC Batch: MSV/63525

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-46-SL (4.5 FT) - 20140812 **Lab ID: 60175646001** Collected: 08/12/14 08:00 Received: 08/13/14 08:30 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								
Acetone	ND	ug/kg	21.0	10.5	1		08/13/14 15:28	67-64-1	
Benzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	71-43-2	
Bromodichloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-27-4	
Bromoform	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-25-2	
Bromomethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.5	5.2	1		08/13/14 15:28	78-93-3	
Carbon disulfide	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	108-90-7	
Chloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-00-3	
Chloroform	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	67-66-3	
Chloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	74-87-3	
Dibromochloromethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	100-41-4	
2-Hexanone	ND	ug/kg	21.0	10.5	1		08/13/14 15:28	591-78-6	
Methylene chloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.5	5.2	1		08/13/14 15:28	108-10-1	
Styrene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	127-18-4	
Toluene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-00-5	
Trichloroethene	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	75-01-4	
Xylene (Total)	ND	ug/kg	5.2	2.6	1		08/13/14 15:28	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/13/14 15:28	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/13/14 15:28	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-129		1		08/13/14 15:28	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.5**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-46-SL (13.5 FT) - 20140812 **Lab ID: 60175646002** Collected: 08/12/14 08:30 Received: 08/13/14 08:30 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								
Acetone	ND	ug/kg	16.6	8.3	1		08/13/14 15:43	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:43	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	100-41-4	
2-Hexanone	ND	ug/kg	16.6	8.3	1		08/13/14 15:43	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:43	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/13/14 15:43	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 15:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/13/14 15:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	75-129		1		08/13/14 15:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**14.2**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-46-SL (18.0 FT) - 20140812 **Lab ID: 60175646003** Collected: 08/12/14 08:50 Received: 08/13/14 08:30 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								
Acetone	ND	ug/kg	16.7	8.3	1		08/13/14 15:58	67-64-1	
Benzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	71-43-2	
Bromodichloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-27-4	
Bromoform	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-25-2	
Bromomethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:58	78-93-3	
Carbon disulfide	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	108-90-7	
Chloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-00-3	
Chloroform	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	67-66-3	
Chloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	74-87-3	
Dibromochloromethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	100-41-4	
2-Hexanone	ND	ug/kg	16.7	8.3	1		08/13/14 15:58	591-78-6	
Methylene chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.3	4.2	1		08/13/14 15:58	108-10-1	
Styrene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	127-18-4	
Toluene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-00-5	
Trichloroethene	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	79-01-6	
Vinyl chloride	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	75-01-4	
Xylene (Total)	ND	ug/kg	4.2	2.1	1		08/13/14 15:58	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/13/14 15:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	76-123		1		08/13/14 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	75-129		1		08/13/14 15:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**12.2**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-47-SL (5.0 FT) - 20140812 **Lab ID: 60175646004** Collected: 08/12/14 13:50 Received: 08/13/14 08:30 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								
Acetone	ND	ug/kg	20.2	10.1	1		08/13/14 16:14	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.1	5.0	1		08/13/14 16:14	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	100-41-4	
2-Hexanone	ND	ug/kg	20.2	10.1	1		08/13/14 16:14	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	5.0	1		08/13/14 16:14	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/13/14 16:14	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1		08/13/14 16:14	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123		1		08/13/14 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	75-129		1		08/13/14 16:14	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**17.4**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: DP-47-SL (22.0 FT) - 20140812 **Lab ID: 60175646005** Collected: 08/12/14 14:40 Received: 08/13/14 08:30 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								
Acetone	ND	ug/kg	17.3	8.7	1		08/13/14 16:29	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.7	4.3	1		08/13/14 16:29	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	100-41-4	
2-Hexanone	ND	ug/kg	17.3	8.7	1		08/13/14 16:29	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.7	4.3	1		08/13/14 16:29	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/13/14 16:29	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 16:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/13/14 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	75-129		1		08/13/14 16:29	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.8**	%	0.50	0.50	1		08/13/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: FORT SMITH AR
Pace Project No.: 60175646

Sample: TB15-20140812 **Lab ID: 60175646006** Collected: 08/12/14 08:00 Received: 08/13/14 08:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/13/14 12:54	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/13/14 12:54	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/13/14 12:54	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/13/14 12:54	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/13/14 12:54	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/13/14 12:54	2037-26-5	
4-Bromofluorobenzene (S)	96	%	76-123		1		08/13/14 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	75-129		1		08/13/14 12:54	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

QC Batch: MSV/63525 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005, 60175646006

METHOD BLANK: 1424585 Matrix: Solid
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005, 60175646006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1-Dichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,1-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloroethane	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloropropane	ug/kg	ND	5.0	08/13/14 12:17	
2-Butanone (MEK)	ug/kg	ND	10.0	08/13/14 12:17	
2-Hexanone	ug/kg	ND	20.0	08/13/14 12:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/13/14 12:17	
Acetone	ug/kg	ND	20.0	08/13/14 12:17	
Benzene	ug/kg	ND	5.0	08/13/14 12:17	
Bromodichloromethane	ug/kg	ND	5.0	08/13/14 12:17	
Bromoform	ug/kg	ND	5.0	08/13/14 12:17	
Bromomethane	ug/kg	3.8J	5.0	08/13/14 12:17	
Carbon disulfide	ug/kg	ND	5.0	08/13/14 12:17	
Carbon tetrachloride	ug/kg	ND	5.0	08/13/14 12:17	
Chlorobenzene	ug/kg	ND	5.0	08/13/14 12:17	
Chloroethane	ug/kg	ND	5.0	08/13/14 12:17	
Chloroform	ug/kg	ND	5.0	08/13/14 12:17	
Chloromethane	ug/kg	ND	5.0	08/13/14 12:17	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/13/14 12:17	
Dibromochloromethane	ug/kg	ND	5.0	08/13/14 12:17	
Ethylbenzene	ug/kg	ND	5.0	08/13/14 12:17	
Methylene chloride	ug/kg	ND	5.0	08/13/14 12:17	
Styrene	ug/kg	ND	5.0	08/13/14 12:17	
Tetrachloroethene	ug/kg	ND	5.0	08/13/14 12:17	
Toluene	ug/kg	ND	5.0	08/13/14 12:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/13/14 12:17	
Trichloroethene	ug/kg	ND	5.0	08/13/14 12:17	
Vinyl chloride	ug/kg	ND	5.0	08/13/14 12:17	
Xylene (Total)	ug/kg	ND	5.0	08/13/14 12:17	
1,2-Dichloroethane-d4 (S)	%	93	75-129	08/13/14 12:17	
4-Bromofluorobenzene (S)	%	98	76-123	08/13/14 12:17	
Toluene-d8 (S)	%	99	80-120	08/13/14 12:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

LABORATORY CONTROL SAMPLE: 1424586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	91.1	91	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	95.2	95	73-120	
1,1,2-Trichloroethane	ug/kg	100	91.0	91	76-120	
1,1-Dichloroethane	ug/kg	100	96.6	97	71-120	
1,1-Dichloroethene	ug/kg	100	92.3	92	76-130	
1,2-Dichloroethane	ug/kg	100	86.4	86	78-120	
1,2-Dichloropropane	ug/kg	100	88.1	88	80-120	
2-Butanone (MEK)	ug/kg	500	415	83	55-135	
2-Hexanone	ug/kg	500	451	90	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	451	90	71-128	
Acetone	ug/kg	500	485	97	43-144	
Benzene	ug/kg	100	86.7	87	80-120	
Bromodichloromethane	ug/kg	100	89.3	89	80-120	
Bromoform	ug/kg	100	85.6	86	75-124	
Bromomethane	ug/kg	100	69.0	69	38-150	
Carbon disulfide	ug/kg	100	95.8	96	58-137	
Carbon tetrachloride	ug/kg	100	87.8	88	75-140	
Chlorobenzene	ug/kg	100	84.8	85	80-120	
Chloroethane	ug/kg	100	79.0	79	65-127	
Chloroform	ug/kg	100	80.2	80	74-120	
Chloromethane	ug/kg	100	70.5	70	39-138	
cis-1,2-Dichloroethene	ug/kg	100	90.2	90	76-124	
cis-1,3-Dichloropropene	ug/kg	100	84.1	84	82-120	
Dibromochloromethane	ug/kg	100	86.7	87	80-124	
Ethylbenzene	ug/kg	100	88.9	89	80-120	
Methylene chloride	ug/kg	100	76.5	76	70-123	
Styrene	ug/kg	100	89.2	89	79-120	
Tetrachloroethene	ug/kg	100	87.1	87	78-128	
Toluene	ug/kg	100	89.5	90	79-120	
trans-1,2-Dichloroethene	ug/kg	100	90.2	90	76-124	
trans-1,3-Dichloropropene	ug/kg	100	80.6	81	80-124	
Trichloroethene	ug/kg	100	87.3	87	80-120	
Vinyl chloride	ug/kg	100	66.5	67	57-132	
Xylene (Total)	ug/kg	300	259	86	79-120	
1,2-Dichloroethane-d4 (S)	%			95	75-129	
4-Bromofluorobenzene (S)	%			93	76-123	
Toluene-d8 (S)	%			103	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: FORT SMITH AR
Pace Project No.: 60175646

QC Batch: PMST/9907 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005

METHOD BLANK: 1424864 Matrix: Solid
Associated Lab Samples: 60175646001, 60175646002, 60175646003, 60175646004, 60175646005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/13/14 00:00	

SAMPLE DUPLICATE: 1424865

Parameter	Units	60175645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.6	16.6	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: FORT SMITH AR
Pace Project No.: 60175646

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/63525

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORT SMITH AR
Pace Project No.: 60175646

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175646001	**DP-46-SL (4.5 FT) - 20140812**	EPA 8260	MSV/63525		
60175646002	**DP-46-SL (13.5 FT) - 20140812**	EPA 8260	MSV/63525		
60175646003	**DP-46-SL (18.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646004	**DP-47-SL (5.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646005	**DP-47-SL (22.0 FT) - 20140812**	EPA 8260	MSV/63525		
60175646006	**TB15-20140812**	EPA 8260	MSV/63525		
60175646001	**DP-46-SL (4.5 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646002	**DP-46-SL (13.5 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646003	**DP-46-SL (18.0 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646004	**DP-47-SL (5.0 FT) - 20140812**	ASTM D2974	PMST/9907		
60175646005	**DP-47-SL (22.0 FT) - 20140812**	ASTM D2974	PMST/9907		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60175646

60175646

Optional
Proj Due Date:
Proj Name:

Client Name: Enviro

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 6113 5277 3520 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 ☑ zpac

Thermometer Used: T-239 T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.6

Date and initials of person examining contents: att 8/13

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: ch for (MR) Date: 8/13

Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	Environ
Address:	7500 College Blvd., Ste. 925
	Overland Park, KS 66210
Email To:	wstonestreet@environcorp.com
Phone: 913-553-5926	Fax:
Requested Due Date/TAT:	24 Hr.

Section B Required Project Information:

Report To:	Wendy Stonestreet
Copy To:	Tamara Gleason
	tgleason@environcorp.com
Purchase Order No.:	
Project Name:	Fort Smith, AR
Project Number:	

Section C Invoice Information:

Attention:	Tamara Gleason
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	MJ Walls
Pace Profile #:	7444, line 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: AR

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N		60175646
1	DP-46-SL (4.5 FT)-20140812	SL	G			8/12/14	0800		5	X						X	X		X		1(BPAU) 1(DEAM) 1(DPAB) 2(VA)
2	DP-46-SL (13.5 FT)-20140812						0830														
3	DP-46-SL (18.0 FT)-20140812						0850														
4	DP-47-SL (5.0 FT)-20140812						1350														
5	DP-47-SL (22.0 FT)-20140812						1440														
6	Trip Blank 07-20140812	WT							2												
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
24 Hr TAT!	/ENVIRON	8/12/14	1830		8/13	8:30	4.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/12/14

*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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 19, 2014

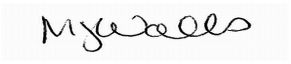
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

RE: Project: Fort Smith, AR
Pace Project No.: 60175927

Dear Wendy Stonestreet:
Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Fort Smith, AR
Pace Project No.: 60175927

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175927001	**DP-48-SL (4.0 FT)-20140814**	Solid	08/14/14 10:35	08/16/14 02:35
60175927002	**DP-48-SL (11.5 FT)-20140814**	Solid	08/14/14 10:50	08/16/14 02:35
60175927003	**DP-49-SL (4.0 FT)-20140814**	Solid	08/14/14 12:35	08/16/14 02:35
60175927004	**DP-49-SL (10.0 FT)-20140814**	Solid	08/14/14 12:40	08/16/14 02:35
60175927005	**DP-49-SL (13.0 FT)-20140814**	Solid	08/14/14 12:55	08/16/14 02:35
60175927006	**DP-50-SL (4.0 FT)-20140814**	Solid	08/14/14 14:30	08/16/14 02:35
60175927007	**DP-50-SL (10.0 FT)-20140814**	Solid	08/14/14 14:45	08/16/14 02:35
60175927008	**TB17-20140814**	Solid	08/14/14 10:35	08/16/14 02:35

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175927001	**DP-48-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927002	**DP-48-SL (11.5 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927003	**DP-49-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927004	**DP-49-SL (10.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927005	**DP-49-SL (13.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927006	**DP-50-SL (4.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927007	**DP-50-SL (10.0 FT)-20140814**	EPA 8260	JKL	37
		ASTM D2974	DWC	1
60175927008	**TB17-20140814**	EPA 8260	JKL	37

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Fort Smith, AR
Pace Project No.: 60175927

Method: **EPA 8260**
Description: 8260 MSV 5035A VOA
Client: Environ_AR
Date: August 19, 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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-48-SL (4.0 FT)-20140814 **Lab ID: 60175927001** Collected: 08/14/14 10:35 Received: 08/16/14 02:35 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								
Acetone	**15.3J**	ug/kg	18.5	9.2	1		08/18/14 15:25	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/18/14 15:25	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	100-41-4	
2-Hexanone	ND	ug/kg	18.5	9.2	1		08/18/14 15:25	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/18/14 15:25	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/18/14 15:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		08/18/14 15:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:25	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	75-129		1		08/18/14 15:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**13.0**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-48-SL (11.5 FT)-20140814 **Lab ID: 60175927002** Collected: 08/14/14 10:50 Received: 08/16/14 02:35 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								
Acetone	**9.3J**	ug/kg	17.2	8.6	1		08/18/14 15:40	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.6	4.3	1		08/18/14 15:40	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	100-41-4	
2-Hexanone	ND	ug/kg	17.2	8.6	1		08/18/14 15:40	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	4.3	1		08/18/14 15:40	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/18/14 15:40	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 15:40	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/18/14 15:40	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.8**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (4.0 FT)-20140814 **Lab ID: 60175927003** Collected: 08/14/14 12:35 Received: 08/16/14 02:35 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								
Acetone	**15.4J**	ug/kg	19.4	9.7	1		08/18/14 15:56	67-64-1	
Benzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	71-43-2	
Bromodichloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-27-4	
Bromoform	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-25-2	
Bromomethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.7	4.8	1		08/18/14 15:56	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-00-3	
Chloroform	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	67-66-3	
Chloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	74-87-3	
Dibromochloromethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	100-41-4	
2-Hexanone	ND	ug/kg	19.4	9.7	1		08/18/14 15:56	591-78-6	
Methylene chloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	4.8	1		08/18/14 15:56	108-10-1	
Styrene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	127-18-4	
Toluene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-00-5	
Trichloroethene	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	79-01-6	
Vinyl chloride	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	75-01-4	
Xylene (Total)	ND	ug/kg	4.8	2.4	1		08/18/14 15:56	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 15:56	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 15:56	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 15:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.5**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (10.0 FT)-20140814 **Lab ID: 60175927004** Collected: 08/14/14 12:40 Received: 08/16/14 02:35 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								
Acetone	**12.3J**	ug/kg	17.4	8.7	1		08/18/14 16:11	67-64-1	
Benzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	71-43-2	
Bromodichloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-27-4	
Bromoform	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-25-2	
Bromomethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	74-83-9	
2-Butanone (MEK)	ND	ug/kg	8.7	4.3	1		08/18/14 16:11	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	108-90-7	
Chloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-00-3	
Chloroform	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	67-66-3	
Chloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	74-87-3	
Dibromochloromethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	100-41-4	
2-Hexanone	ND	ug/kg	17.4	8.7	1		08/18/14 16:11	591-78-6	
Methylene chloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.7	4.3	1		08/18/14 16:11	108-10-1	
Styrene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	127-18-4	
Toluene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-00-5	
Trichloroethene	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	79-01-6	
Vinyl chloride	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	75-01-4	
Xylene (Total)	ND	ug/kg	4.3	2.2	1		08/18/14 16:11	1330-20-7	
Surrogates									
Toluene-d8 (S)	101	%	80-120		1		08/18/14 16:11	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/18/14 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	75-129		1		08/18/14 16:11	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**11.3**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-49-SL (13.0 FT)-20140814 **Lab ID: 60175927005** Collected: 08/14/14 12:55 Received: 08/16/14 02:35 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								
Acetone	**14.2J**	ug/kg	22.6	11.3	1		08/18/14 16:26	67-64-1	
Benzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	71-43-2	
Bromodichloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-27-4	
Bromoform	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-25-2	
Bromomethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	11.3	5.6	1		08/18/14 16:26	78-93-3	
Carbon disulfide	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	108-90-7	
Chloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-00-3	
Chloroform	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	67-66-3	
Chloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	74-87-3	
Dibromochloromethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	100-41-4	
2-Hexanone	ND	ug/kg	22.6	11.3	1		08/18/14 16:26	591-78-6	
Methylene chloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.3	5.6	1		08/18/14 16:26	108-10-1	
Styrene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	127-18-4	
Toluene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-00-5	
Trichloroethene	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	79-01-6	
Vinyl chloride	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	75-01-4	
Xylene (Total)	ND	ug/kg	5.6	2.8	1		08/18/14 16:26	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 16:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/18/14 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	75-129		1		08/18/14 16:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**18.9**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-50-SL (4.0 FT)-20140814 **Lab ID: 60175927006** Collected: 08/14/14 14:30 Received: 08/16/14 02:35 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								
Acetone	ND	ug/kg	18.4	9.2	1		08/18/14 16:42	67-64-1	
Benzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	71-43-2	
Bromodichloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-27-4	
Bromoform	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-25-2	
Bromomethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	9.2	4.6	1		08/18/14 16:42	78-93-3	
Carbon disulfide	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	108-90-7	
Chloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-00-3	
Chloroform	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	67-66-3	
Chloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	74-87-3	
Dibromochloromethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	100-41-4	
2-Hexanone	ND	ug/kg	18.4	9.2	1		08/18/14 16:42	591-78-6	
Methylene chloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.2	4.6	1		08/18/14 16:42	108-10-1	
Styrene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	127-18-4	
Toluene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-00-5	
Trichloroethene	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	79-01-6	
Vinyl chloride	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	75-01-4	
Xylene (Total)	ND	ug/kg	4.6	2.3	1		08/18/14 16:42	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 16:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%	76-123		1		08/18/14 16:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 16:42	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**15.8**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: DP-50-SL (10.0 FT)-20140814 **Lab ID: 60175927007** Collected: 08/14/14 14:45 Received: 08/16/14 02:35 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								
Acetone	ND	ug/kg	15.9	7.9	1		08/18/14 16:57	67-64-1	
Benzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	71-43-2	
Bromodichloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-27-4	
Bromoform	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-25-2	
Bromomethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	7.9	4.0	1		08/18/14 16:57	78-93-3	
Carbon disulfide	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	108-90-7	
Chloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-00-3	
Chloroform	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	67-66-3	
Chloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	74-87-3	
Dibromochloromethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	124-48-1	
1,1-Dichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	100-41-4	
2-Hexanone	ND	ug/kg	15.9	7.9	1		08/18/14 16:57	591-78-6	
Methylene chloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	7.9	4.0	1		08/18/14 16:57	108-10-1	
Styrene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	127-18-4	
Toluene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-00-5	
Trichloroethene	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	79-01-6	
Vinyl chloride	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	75-01-4	
Xylene (Total)	ND	ug/kg	4.0	2.0	1		08/18/14 16:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		08/18/14 16:57	2037-26-5	
4-Bromofluorobenzene (S)	101	%	76-123		1		08/18/14 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	75-129		1		08/18/14 16:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974								
Percent Moisture	**10.6**	%	0.50	0.50	1		08/18/14 00:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: Fort Smith, AR
Pace Project No.: 60175927

Sample: TB17-20140814 **Lab ID: 60175927008** Collected: 08/14/14 10:35 Received: 08/16/14 02:35 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260								
Acetone	ND	ug/kg	20.0	10.0	1		08/18/14 17:12	67-64-1	
Benzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	71-43-2	
Bromodichloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-27-4	
Bromoform	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-25-2	
Bromomethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	10.0	5.0	1		08/18/14 17:12	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-00-3	
Chloroform	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	67-66-3	
Chloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	124-48-1	
1,1-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	100-41-4	
2-Hexanone	ND	ug/kg	20.0	10.0	1		08/18/14 17:12	591-78-6	
Methylene chloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	5.0	1		08/18/14 17:12	108-10-1	
Styrene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	127-18-4	
Toluene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-00-5	
Trichloroethene	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	79-01-6	
Vinyl chloride	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	75-01-4	
Xylene (Total)	ND	ug/kg	5.0	2.5	1		08/18/14 17:12	1330-20-7	
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		08/18/14 17:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	76-123		1		08/18/14 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	75-129		1		08/18/14 17:12	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

QC Batch: MSV/63624 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007, 60175927008

METHOD BLANK: 1426686 Matrix: Solid
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007, 60175927008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1,2-Trichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1-Dichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,1-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloroethane	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloropropane	ug/kg	ND	5.0	08/18/14 15:10	
2-Butanone (MEK)	ug/kg	ND	10.0	08/18/14 15:10	
2-Hexanone	ug/kg	ND	20.0	08/18/14 15:10	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	08/18/14 15:10	
Acetone	ug/kg	ND	20.0	08/18/14 15:10	
Benzene	ug/kg	ND	5.0	08/18/14 15:10	
Bromodichloromethane	ug/kg	ND	5.0	08/18/14 15:10	
Bromoform	ug/kg	ND	5.0	08/18/14 15:10	
Bromomethane	ug/kg	ND	5.0	08/18/14 15:10	
Carbon disulfide	ug/kg	ND	5.0	08/18/14 15:10	
Carbon tetrachloride	ug/kg	ND	5.0	08/18/14 15:10	
Chlorobenzene	ug/kg	ND	5.0	08/18/14 15:10	
Chloroethane	ug/kg	ND	5.0	08/18/14 15:10	
Chloroform	ug/kg	ND	5.0	08/18/14 15:10	
Chloromethane	ug/kg	ND	5.0	08/18/14 15:10	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/14 15:10	
Dibromochloromethane	ug/kg	ND	5.0	08/18/14 15:10	
Ethylbenzene	ug/kg	ND	5.0	08/18/14 15:10	
Methylene chloride	ug/kg	ND	5.0	08/18/14 15:10	
Styrene	ug/kg	ND	5.0	08/18/14 15:10	
Tetrachloroethene	ug/kg	ND	5.0	08/18/14 15:10	
Toluene	ug/kg	ND	5.0	08/18/14 15:10	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	08/18/14 15:10	
Trichloroethene	ug/kg	ND	5.0	08/18/14 15:10	
Vinyl chloride	ug/kg	ND	5.0	08/18/14 15:10	
Xylene (Total)	ug/kg	ND	5.0	08/18/14 15:10	
1,2-Dichloroethane-d4 (S)	%	94	75-129	08/18/14 15:10	
4-Bromofluorobenzene (S)	%	94	76-123	08/18/14 15:10	
Toluene-d8 (S)	%	101	80-120	08/18/14 15:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

LABORATORY CONTROL SAMPLE: 1426687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	100	92.1	92	77-126	
1,1,2,2-Tetrachloroethane	ug/kg	100	90.6	91	73-120	
1,1,2-Trichloroethane	ug/kg	100	86.1	86	76-120	
1,1-Dichloroethane	ug/kg	100	89.9	90	71-120	
1,1-Dichloroethene	ug/kg	100	90.1	90	76-130	
1,2-Dichloroethane	ug/kg	100	92.8	93	78-120	
1,2-Dichloropropane	ug/kg	100	90.3	90	80-120	
2-Butanone (MEK)	ug/kg	500	527	105	55-135	
2-Hexanone	ug/kg	500	458	92	57-136	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	475	95	71-128	
Acetone	ug/kg	500	460	92	43-144	
Benzene	ug/kg	100	89.2	89	80-120	
Bromodichloromethane	ug/kg	100	93.8	94	80-120	
Bromoform	ug/kg	100	95.0	95	75-124	
Bromomethane	ug/kg	100	113	113	38-150	
Carbon disulfide	ug/kg	100	102	102	58-137	
Carbon tetrachloride	ug/kg	100	92.0	92	75-140	
Chlorobenzene	ug/kg	100	89.6	90	80-120	
Chloroethane	ug/kg	100	97.4	97	65-127	
Chloroform	ug/kg	100	93.6	94	74-120	
Chloromethane	ug/kg	100	111	111	39-138	
cis-1,2-Dichloroethene	ug/kg	100	91.4	91	76-124	
cis-1,3-Dichloropropene	ug/kg	100	91.4	91	82-120	
Dibromochloromethane	ug/kg	100	93.0	93	80-124	
Ethylbenzene	ug/kg	100	88.1	88	80-120	
Methylene chloride	ug/kg	100	99.2	99	70-123	
Styrene	ug/kg	100	89.2	89	79-120	
Tetrachloroethene	ug/kg	100	85.0	85	78-128	
Toluene	ug/kg	100	89.4	89	79-120	
trans-1,2-Dichloroethene	ug/kg	100	85.8	86	76-124	
trans-1,3-Dichloropropene	ug/kg	100	86.6	87	80-124	
Trichloroethene	ug/kg	100	88.5	89	80-120	
Vinyl chloride	ug/kg	100	99.6	100	57-132	
Xylene (Total)	ug/kg	300	261	87	79-120	
1,2-Dichloroethane-d4 (S)	%			105	75-129	
4-Bromofluorobenzene (S)	%			99	76-123	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1426688 1426689

Parameter	Units	60175405007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	117	119	84.2	93.9	72	79	21-144	11	43	
1,1,2,2-Tetrachloroethane	ug/kg	ND	117	119	92.9	106	79	88	10-151	13	46	
1,1,2-Trichloroethane	ug/kg	ND	117	119	91.6	97.3	78	82	10-140	6	46	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1426688 1426689

Parameter	Units	60175405007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/kg	ND	117	119	90.0	99.5	77	83	19-137	10	43	
1,1-Dichloroethene	ug/kg	ND	117	119	86.1	95.2	73	80	27-143	10	41	
1,2-Dichloroethane	ug/kg	ND	117	119	89.4	99.7	76	84	21-147	11	38	
1,2-Dichloropropane	ug/kg	ND	117	119	87.4	93.0	74	78	15-145	6	43	
2-Butanone (MEK)	ug/kg	0.032 mg/kg	587	597	501	548	80	86	10-160	9	50	
2-Hexanone	ug/kg	ND	587	597	448	502	76	84	10-160	11	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	587	597	476	516	81	86	10-152	8	47	
Acetone	ug/kg	0.18 mg/kg	587	597	554	608	63	71	10-160	9	49	
Benzene	ug/kg	ND	117	119	81.7	91.5	70	77	22-144	11	38	
Bromodichloromethane	ug/kg	ND	117	119	85.3	91.9	73	77	10-143	7	42	
Bromoform	ug/kg	ND	117	119	68.5	73.6	58	62	10-145	7	44	
Bromomethane	ug/kg	ND	117	119	89.2	114	76	96	10-137	25	47	
Carbon disulfide	ug/kg	ND	117	119	87.4	99.5	73	82	10-142	13	44	
Carbon tetrachloride	ug/kg	ND	117	119	76.6	86.5	65	72	15-153	12	45	
Chlorobenzene	ug/kg	ND	117	119	65.6	70.6	56	59	10-145	7	46	
Chloroethane	ug/kg	ND	117	119	98.5	110	84	92	17-134	11	42	
Chloroform	ug/kg	ND	117	119	89.5	92.9	76	78	17-138	4	44	
Chloromethane	ug/kg	ND	117	119	113	122	96	102	10-128	8	39	
cis-1,2-Dichloroethene	ug/kg	ND	117	119	88.7	96.8	75	81	17-140	9	46	
cis-1,3-Dichloropropene	ug/kg	ND	117	119	70.3	76.8	60	64	10-142	9	43	
Dibromochloromethane	ug/kg	ND	117	119	78.8	85.0	67	71	10-149	8	42	
Ethylbenzene	ug/kg	ND	117	119	67.4	71.0	57	59	10-154	5	42	
Methylene chloride	ug/kg	ND	117	119	104	119	86	97	15-140	13	46	
Styrene	ug/kg	ND	117	119	53.5	55.2	46	46	10-142	3	44	
Tetrachloroethene	ug/kg	ND	117	119	64.5	70.5	55	59	10-150	9	48	
Toluene	ug/kg	ND	117	119	72.8	79.8	62	67	11-150	9	40	
trans-1,2-Dichloroethene	ug/kg	ND	117	119	78.9	90.7	67	76	20-140	14	42	
trans-1,3-Dichloropropene	ug/kg	ND	117	119	67.8	72.8	58	61	10-149	7	41	
Trichloroethene	ug/kg	ND	117	119	75.1	83.0	64	70	14-146	10	45	
Vinyl chloride	ug/kg	ND	117	119	95.4	105	81	88	19-131	10	37	
Xylene (Total)	ug/kg	ND	352	358	189	194	54	54	10-154	3	41	
1,2-Dichloroethane-d4 (S)	%						101	102	75-129			
4-Bromofluorobenzene (S)	%						98	96	76-123			
Toluene-d8 (S)	%						100	100	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: Fort Smith, AR
Pace Project No.: 60175927

QC Batch: PMST/9917 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007

METHOD BLANK: 1427485 Matrix: Solid
Associated Lab Samples: 60175927001, 60175927002, 60175927003, 60175927004, 60175927005, 60175927006, 60175927007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/18/14 00:00	

SAMPLE DUPLICATE: 1427486

Parameter	Units	60175925001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.7	30.6	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Fort Smith, AR
Pace Project No.: 60175927

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fort Smith, AR
Pace Project No.: 60175927

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175927001	**DP-48-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927002	**DP-48-SL (11.5 FT)-20140814**	EPA 8260	MSV/63624		
60175927003	**DP-49-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927004	**DP-49-SL (10.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927005	**DP-49-SL (13.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927006	**DP-50-SL (4.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927007	**DP-50-SL (10.0 FT)-20140814**	EPA 8260	MSV/63624		
60175927008	**TB17-20140814**	EPA 8260	MSV/63624		
60175927001	**DP-48-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927002	**DP-48-SL (11.5 FT)-20140814**	ASTM D2974	PMST/9917		
60175927003	**DP-49-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927004	**DP-49-SL (10.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927005	**DP-49-SL (13.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927006	**DP-50-SL (4.0 FT)-20140814**	ASTM D2974	PMST/9917		
60175927007	**DP-50-SL (10.0 FT)-20140814**	ASTM D2974	PMST/9917		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60175927

60175927

Client Name: Envirn

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zip

Thermometer Used: (T-239) T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: AH 8/16

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 24hrs
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☑Yes ☐No ☐N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WS SL	amb 8/16	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☑No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 070113-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AL

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/18/14

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:	24 Hr.	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: AR

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	8260 client specific list	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60175927
1	DP-48-SL (4.0 FT)-20140814	SL	G			8/14/14	1035		5	X						X	X		X		1(BP6U)1(DG9M)1(DG9B)2(VG9U) 001
2	DP-48-SL (11.5 FT)-20140814	↓	↓			↓	1050		↓	↓						↓	↓		↓		002
3	DP-49-SL (4.0 FT)-20140814	↓	↓			↓	1235		↓	↓						↓	↓		↓		003
4	DP-49-SL (10.0 FT)-20140814	↓	↓			↓	1240		↓	↓						↓	↓		↓		004
5	DP-49-SL (13.0 FT)-20140814	↓	↓			↓	1255		↓	↓						↓	↓		↓		005
6	DP-50-SL (4.0 FT)-20140814	↓	↓			↓	1430		↓	↓						↓	↓		↓		006
7	DP-50-SL (10.0 FT)-20140814	↓	↓			↓	1445		↓	↓						↓	↓		↓		007
8	Trip Blank 09-082014	WT							2	↓									↓		008
9	Temp Blank	WT							1	↓											
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
24 Hr. TAT!	~~[signature] / ENVIRON~~	~~8/14/14~~	~~1730~~	[signature] / PASI	8/16	235	3.2	Y	Y	Y
	[signature]	8/15/14	1745							
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/14/14

*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.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 21, 2014

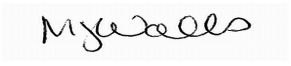
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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 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 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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60176049

60176049

Client Name: Enviro

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ via

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 ☑ zplc

Thermometer Used: T-239 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Date and initials of person examining contents: AH 8/19

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 061114-2DFD		15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	1 of 2 TB headspace
		16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑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: MW Date: 8/19/14

Pace Analytical
www.pacelabs.com

Chain-of-Custody and Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:		Project Number:	3434446A	Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: AR

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 client specific list	8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DP-49-GW-20140817	WT	G			8/17/14	0854		2				X					X				2(DGHL)
2	NE-Manhole-SW-20140818	WT	G			8/18/14	1715		3				X						X			3(DGHL)
3	WECT-SW-20140818	WT	G			8/18/14	1733		3				X						X			↓
4	Trip Blank 12-082014	WT							2				X					X				2(DGHL)
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
CALL WENDY STONESTREET FOR SPECIFIC LIST FOR CHLORINATED	[signature] / ENVIRON	8/18/14		[signature] / PASI	8/19	0200	2.6	Y	Y	Y

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 Eddings					
SIGNATURE of SAMPLER:	[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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

August 22, 2014

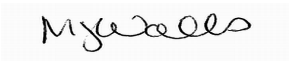
Wendy Stonestreet
Environ International Corporation
7500 College Blvd Ste 925
Overland Park, KS 66210

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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	
1,1,2,2-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	
1,1,2,2-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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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	60176101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
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			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1429864 1429865

Parameter	Units	60176101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	100	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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.

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

TNI - The NELAC Institute.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

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		

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO# : 60176262

60176262

Client Name: Environ

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ VEA

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 ☑ ZPLC

Thermometer Used: T-239 / T-194 **Type 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

Date and initials of person examining contents: NB 8/21/14

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Kits
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	7. 24hr
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☑Yes ☐No ☐N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: SL		13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	~~☐Yes~~ (No) ☐N/A	
Pace Trip Blank lot # (if purchased):	NB 8/21/14	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☑No ☐N/A	17. List State: AR

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW Date: 8/21/14

Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environ	Report To:	Wendy Stonestreet	Attention:	Tamara Gleason
Address:	7500 College Blvd., Ste. 925	Copy To:	Tamara Gleason	Company Name:	
	Overland Park, KS 66210		tgleason@environcorp.com	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
Requested Due Date/TAT:	24 Hr TAT	Project Number:		Pace Profile #:	7444 water, 7709 soil

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: AR

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: 8260 client specific list	Analysis Test: 8260 Chlorinated	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SED-01-SL-20140820	SL	G			8/20/14	1245		5	X						X	X		1	X	Y	60176262
2	SED-02-SL-20140820						1300															
3	SED-03-SL-20140820						1315															
4	SED-04-SL-20140820						1410															
5	SED-05-SL-20140820						1450															
6	SED-06-SL-20140820						1500															
7	SED-07-SL-20140820						1510															
8	SED-08-SL-20140820						1520															
9																						
10																						
11																						
12																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
24 Hr TAT!	ENVIRON	8/20/14	1800		8/21/14	0130	0.8	Y	Y	Y
Call Wendy Stonestreet for 8260 chlorinated specific list										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nick Zurweller

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/20/14

*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.