



December 17, 2018

Reference No. 11139422

Carrie Stoltz  
Wisconsin Department of Natural Resources  
107 Sutliff Avenue  
Rhineland, Wisconsin 54501

Dear Ms. Stoltz:

**Re: Site Investigation Results and Final Closure Request  
Former Lindey Cleaners (BRRTS #02-44-562823)  
Rhineland, WI**

GHD Services Inc. (GHD), on behalf of the City of Rhineland, submits this letter requesting closure for the former Lindey Cleaners site. This letter describes the investigative work completed at the above-referenced site, summarizes the recent and historical data, and recommends site closure. The Site location is presented on Figure 1.

## 1. Background

The Lindey Cleaners property was a former dry cleaner business located at 34 S. Stevens Street in Rhineland, Wisconsin (See Figure 1). Sand Creek Consultants, Inc. (Sand Creek) conducted a comprehensive Phase I Environmental Site Assessment (ESA) of the property in November 2013, and noted the following findings:

- The historical use of USTs at the site.
- The presence of hazardous waste containers.
- Earthen pits and leaky brick sewers that acted as waste disposal areas.
- The history of the property as a dry cleaner with over 90 years of hazardous waste disposal with limited records of lawful disposal.

This property was acquired by the City of Rhineland under the condemnation clause of Chapter 32, Wis. Stats. This method of purchase allows the City to use the Local Government Environmental Liability Exemption as provided under Wis. Stat. 202.11(9)(e). Under the liability exemption, the City is not required to perform remedial activities (except in the case of a substantial and imminent threat), nor is the City required to seek final closure.

However, two factors have influenced the City's decision to go forward and seek final closure

- 1) The local government liability exemption is non-transferrable, and if the City did ever choose to sell the property and return it to the tax rolls, a potential purchaser might be discouraged by it being an "open" case in the WDNR system.
- 2) Results from the site investigation (as presented below in this letter) show the site has very limited environmental contamination, and should be eligible for final closure.



During demolition activities at the Lindey Cleaners property in March 2015, heavily stained soil and strong solvent odors were noted in the northwest corner of the property. Sand Creek collected two shallow soil samples and submitted them to a laboratory for analysis. Both analytical results were above direct contact standards for Naphthalene and 1,2,4-Trimethylbenzene (TMB).

As a follow up to these soil results, 12 soil borings were advanced in April 2015 at locations identified in the Phase I ESA as having recognized environmental conditions (RECs) and near the original two borings. Attachment A presents figures and tables from the Sand Creek report dated May 2015.

Sand Creek installed nine temporary monitoring wells in September 2014 utilizing a Geoprobe unit. These monitoring wells were sampled in September 2014 and again in April 2015. The location and sample results are presented in Attachment A.

## 2. Scope of Work

The City of Rhinelander retained GHD to help characterize the soil and groundwater in and around the Lindey Cleaners site and further delineate the direct contact exceedances in the soil in the northwest corner of the site. GHD, with approval from the WDNR, submitted a Work Plan to the City of Rhinelander in October 2018. The Work Plan is summarized below:

- Advanced 13 of the 14 proposed geoprobe borings. One location was not drilled due to access constraints.
- Collected three soil samples per borehole from 0-4 feet below ground surface (bgs), 4-8 feet bgs, and 8-12 feet bgs.; analyzed for Volatile Organic Compounds (VOCs) on select boreholes and intervals.
- Collected three groundwater samples and analyzed for VOCs.
- Collect two samples from the “worst case” locations (i.e. highest PID reading or visible staining) and analyzed for N-Nonane.

The purpose of the supplemental investigation was to help define the depth and extent of the TMB and tetrachloroethene (PCE) Groundwater Protection RCL exceedances. Thirteen soil borings were completed in a grid pattern on and around the western half of the Lindey Cleaners property. The western half of the property was identified in the Sand Creek’s Phase I ESA as having the RECs.

The shallow (0– 4 feet bgs) samples were analyzed from each of the six interior boreholes, while the remaining samples were placed on hold at the laboratory. If the analytical results from the shallow samples showed impact above criteria, then the middle (4-8 feet bgs) sample from the respective borehole was analyzed, along with the shallow sample from the adjacent borehole on the outside of the grid pattern. If the middle sample from the respective borehole showed impact above criteria, then the deep (8 – 12 feet bgs) sample was analyzed. A total of 16 soil samples were analyzed for VOCs and two samples were analyzed for N-Nonane. The stratigraphic borehole logs are provided in Attachment B. The location of the borings are presented in Figure 2.



### 3. Results

This section summarizes the results from the following documents:

- 2015 Lindey Cleaners Site Investigation, Sand Creek
- 2017 Kabel Auto Site Investigation, GHD
- 2018 Lindey Cleaners Site Supplemental Investigation, GHD

#### 3.1 2015 Lindey Cleaners Investigation

As a follow up to the initial samples collected during the demolition activities, Sand Creek installed 12 Geoprobe boreholes in the area of the previously encountered stained soil and near other RECs identified during the Phase I ESA. Of the 12 boreholes sampled. The initial two soil samples exceeded the RCL-Direct Contact value for Naphthalene, 1,2,4-Trimethylbenzene (TMB), and 1,3,5-TMB. None of the additional 12 additional soil boring samples exceeded the RCL-Direct Contact values. The RCL-Groundwater Protection value was exceeded for Naphthalene in one boring, total TMBs in two borings, and Tetrachloroethene (PCE) in seven of the borings. The majority of the exceedances were located on the west end of the Site. The locations and sampling results are summarized in Attachment A.

Sand Creek installed nine temporary groundwater wells in September 2014. These wells were sampled upon installation and again in April 2015. One of the wells had a Wisconsin Enforcement Standard (ES) exceedance for Total TMBs in the September 2014 event but the follow up sampling event in April 2015 at the same location did not have an exceedance. One sample exceeded the ES for Total TMBs in the April 2015 event and one sample exceeded the ES for PCE in the April 2015 sampling event. The locations and sampling results are summarized in Attachment A.

#### 3.2 2017 Kabel Auto Site Investigation

GHD was retained by the City of Rhinelander to conduct a Phase II ESA on the Kabel Auto Site in 2017. A total of 22 soil samples, 11 groundwater samples, and five soil gas samples were collected on and around the Kabel Auto property. No exceedances of any standards were found in the soil samples or the soil gas samples. Two of the water samples collected from boreholes in the alley north of the Site had ES exceedances for Total TMB. Because TMB was not associated with the Kabel Auto Site, and no evidence of TMB was found in the on-Site soils, the groundwater exceedances probably originated at Lindey Cleaners. Table 1 presents the groundwater data for the Kabel Auto Site. Figure 3 shows the locations of the Kabel Auto groundwater sampling locations.

#### 3.3 2018 Lindey Cleaners Site Supplemental Investigation

None of the 16 soil sample results exceeded the Direct Contact RCL values. Four of the borings had a sample that exceeded the Groundwater Protection RCL value for PCE in the 0-4 feet bgs samples. At three of those locations, the 4-8 feet bgs samples and the 8-12 feet bgs samples were analyzed. Both locations showed decreasing concentrations of PCE with depth. TMBs were found in four of the 16 soil samples analyzed. All the TMB results were well below the Groundwater Protection RCL value. The two



N-Nonane samples collected were also below any standard. The soil analytical results are provided in Table 2 and the laboratory data and data validation memo are provided in Attachment C.

Three groundwater samples were collected from temporary wells installed in October of 2018. These temporary wells were installed to help define the extent of the TMB and PCE ES exceedances from the Sand Creek samples collected in 2015. The sample collected from a temporary well located in the northwest corner of the Site had an ES exceedance for Total TMBs. Total TMBs did not exceed the ES at any of the other locations. PCE was detected below the ES at all three locations. The groundwater analytical results are provided in Table 1 and the laboratory data is provided in Attachment C. Figure 3 shows the location of the temporary wells along with the Total TMB data.

### **3.4 Summary of Data**

The March 2015 shallow soil samples in the northwest corner of Lindey Cleaners Site exceeded the Direct Contact RCL values for Naphthalene (19,400 ug/kg) and 1,2,4-TMB (264,000 ug/kg). The follow-up April 2015 sampling showed reduced Naphthalene (575 ug/kg) and 1,2,4-TMB (8,450 ug/kg) concentrations from soils collected in the same area. In October 2018, the supplemental investigation showed significantly further reduced soil concentrations for Naphthalene (0.57 ug/kg) and 1,2,4-TMB (1.8 ug/kg) in the same area. The October 2018 values are below the Groundwater Protection RCL. Hence, since March 2015, the Naphthalene and TMB soil concentrations have decreased several orders of magnitude. These reductions are attributed to natural degradation processes. The soil analytical data are presented in Table 2. The laboratory reports and data validation memo are provided in Attachment C.

PCE was detected in four boreholes above the Groundwater Protection RCL in 2018. However, only one borehole location reported PCE above the criteria deeper than 8 feet bgs. The highest concentration of PCE detected in the soil for the October 2018 investigation was 29.5 ug/kg. Conversely, the previous 2015 investigation found PCE concentrations as high as 700 ug/kg in similar areas. Based on the scope of work listed above for the 2018 Lindey Cleaners Site Supplemental Investigation, every soil sample with a PCE exceedance was delineated both horizontally and vertically.

One pocket of shallow groundwater that was encountered during the 2018 Lindey Cleaners Site Supplemental Investigation exceeded the ES for Total TMBs. In addition to the 2018 exceedance, another pocket of groundwater exceeding the ES for Total TMBs was encountered in the 2017 Kabel Auto Site Investigation that may be attributed to historical Lindey Cleaners activities. Two shallow groundwater samples were collected in an alley approximately 50-feet north (down gradient) of the Lindey Cleaners Site. Both of these samples exceeded the ES for Total TMBs. However, the Kabel Auto Site showed no detections of TMBs in the soil. Hence, the TMBs in the groundwater samples collected in the alley may have originated at Lindey Cleaners.

Although three boreholes encountered groundwater that exceeded the ES for Total TMBs, each TMB exceedance is delineated horizontally by shallow groundwater samples that are below the ES.



#### 4. Conclusions

Based on the historical data from the 2015 Lindey Cleaners Investigation, the 2017 Kabel Auto Site Investigation, and the 2018 Lindey Cleaners Site Supplemental Investigation, we conclude:

- 1) There is no evidence of soil exceeding Direct Contact RCL values.
- 2) The results of the soil sampling show a substantial reduction in the concentration of PCE compared to samples collected in similar areas in 2015. While four recent boreholes have soil sample results that exceed the Groundwater Protection RCL for PCE, none of the 14 water samples collected on the Lindey Cleaners/Kabel Auto Sites since 2017 show an ES exceedance for PCE. Table 3 presents a summary of select VOC soil data in areas with multiples sampling events.
- 3) The data show that total TMB has been attenuated since 2015 and that the current exceedances are sporadic and pose no immediate risk. This area is served by municipal water and direct contact is unlikely.
- 4) The substantial reduction in VOC concentrations, in particular Naphthalene, PCE, and TMBs, is attributed to natural attenuation processes of the soil and groundwater in the area from exposure of the shallow soils to the atmosphere and the influx of clean stormwater over the last three years.

Based on these data, the Lindey Cleaners site is not identified as a source of environmental contamination, and is proposed to be submitted for final closure.

Please let us know if you have any questions.

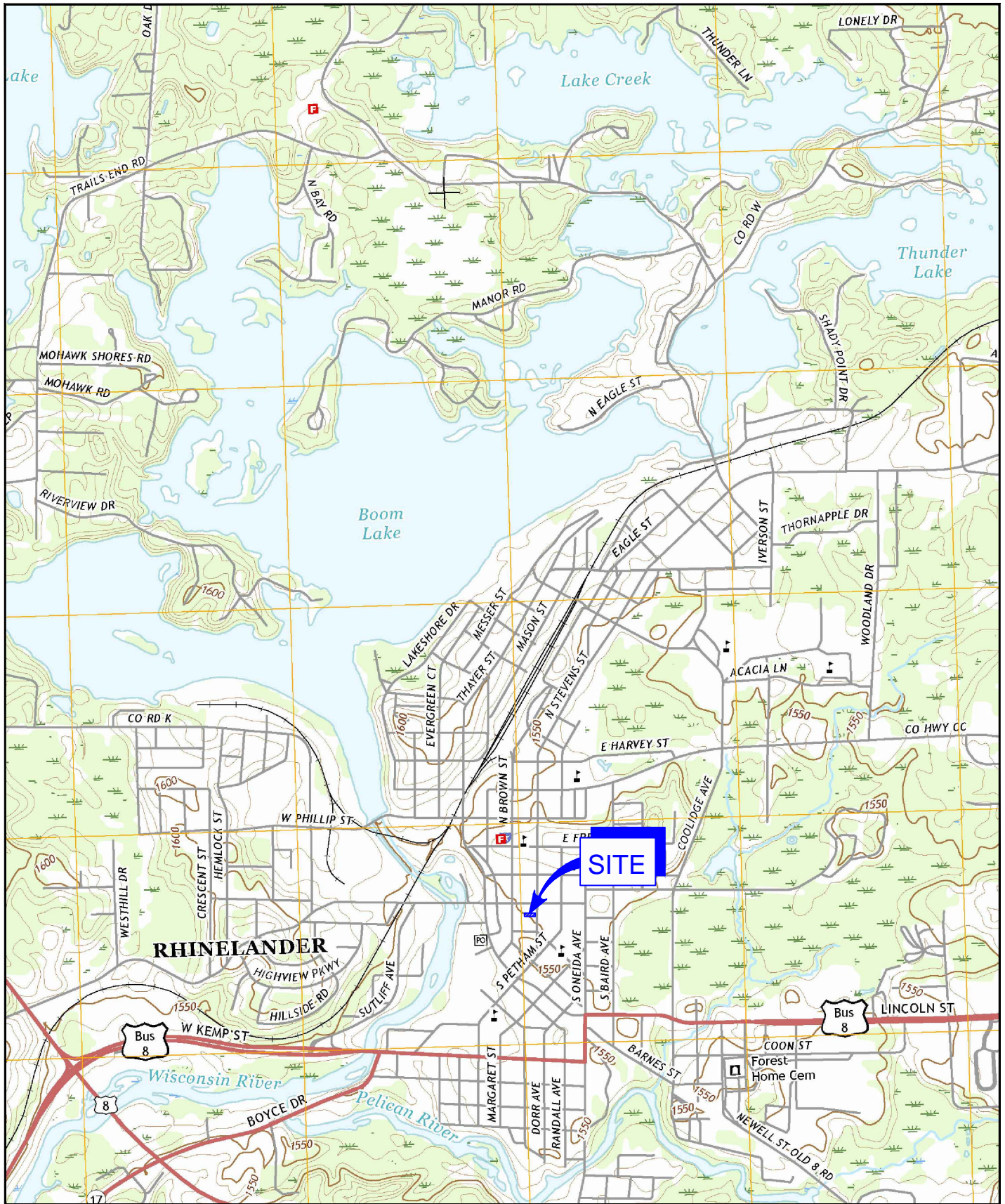
GHD

Ryan Aamot

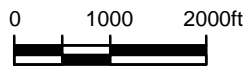
RA/sb/2

Encl.

Brian Sandberg



Source: USGS QUADRANGLE MAP: RHINELANDER, WI., 2015.



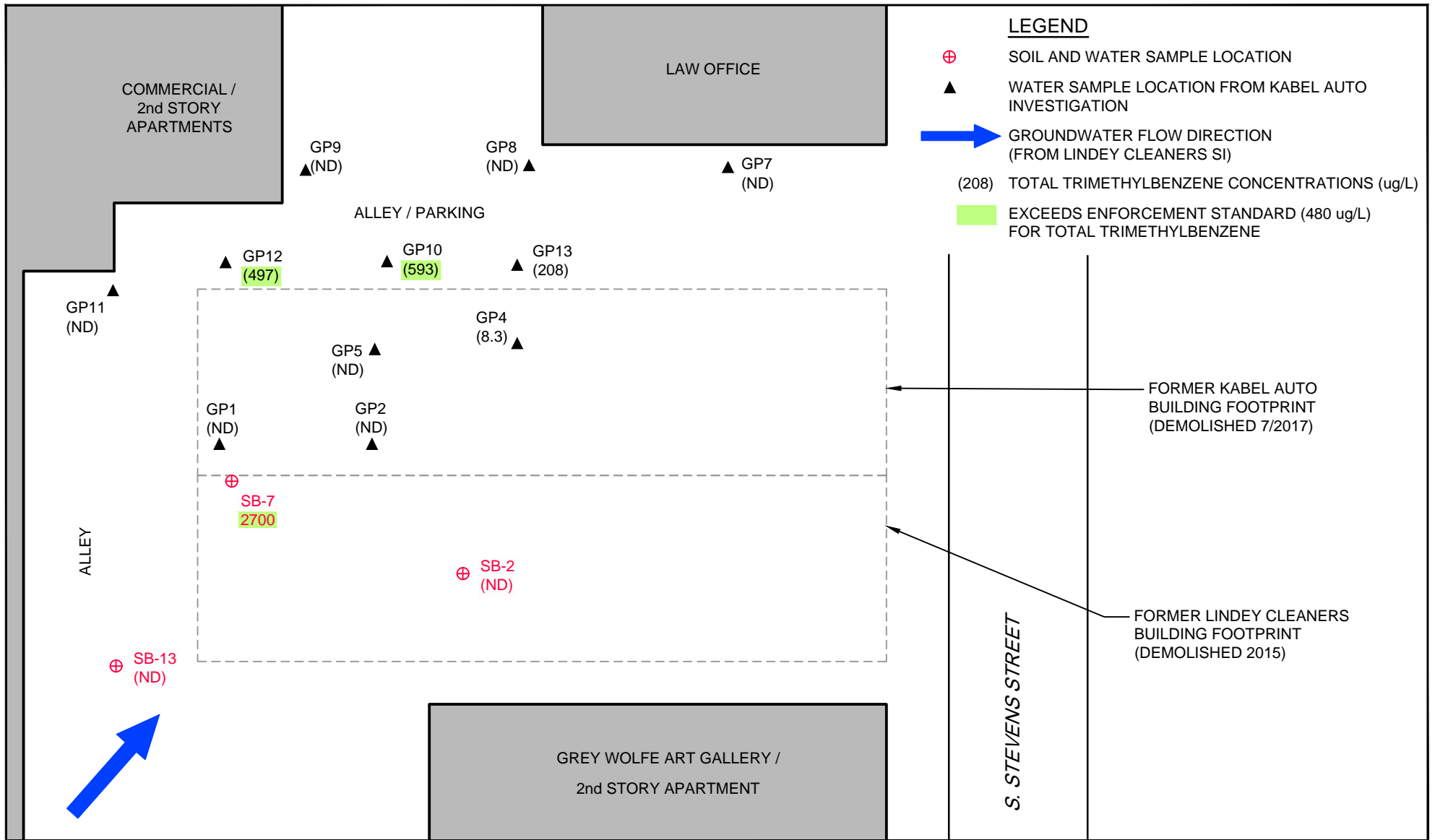
FORMER KABEL AUTO  
 28 SOUTH STEVENS STREET  
 RHINELANDER, WISCONSIN

11139422-13

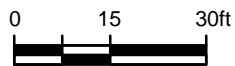
Dec 5, 2018

SITE LOCATION MAP

FIGURE 1



Source: SAND CREEK CONSULTANTS, INC, APRIL 2015 SOIL RESULTS, MAY 2015.



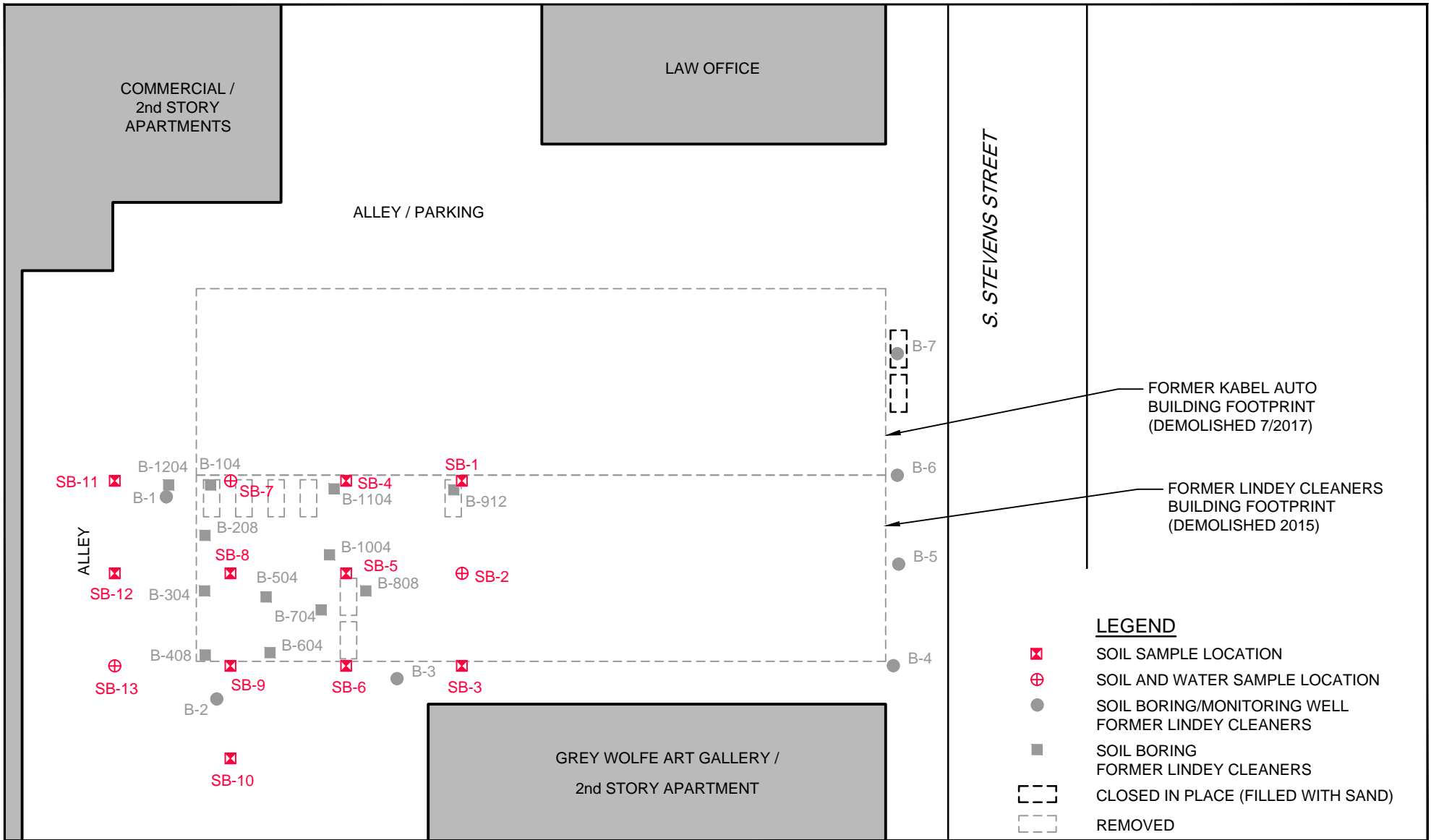
FORMER LINDEY CLEANERS  
34 SOUTH STEVENS STREET  
RHINELANDER, WISCONSIN

TOTAL TRIMETHYLBENZENE CONCENTRATIONS (ug/L)  
IN THE GROUNDWATER

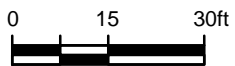
11139422-13

Nov 30, 2018

FIGURE 2



Source: SAND CREEK CONSULTANTS, INC, APRIL 2015 SOIL RESULTS, MAY 2015.



FORMER LINDEY CLEANERS  
34 SOUTH STEVENS STREET  
RHINELANDER, WISCONSIN

LINDEY CLEANERS BOREHOLE LOCATIONS

11139422-13  
Nov 30, 2018

FIGURE 3



Table 1

VOC Groundwater Detects  
 October 2018  
 Former Lindey Cleaner  
 Rhinelander, Wisconsin

Wisconsin Enforcement Standard (ug/L)			1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone (Methyl ethyl ketone) (MEK)	2-Phenylbutane (sec-Butylbenzene)	cis-1,2-Dichloroethene	Cymene (p-Isopropyltoluene)	Ethylbenzene	Isopropyl benzene	Naphthalene	N-Butylbenzene	N-Propylbenzene	tert-Butylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoromethane (CFC-11)	m&p-Xylenes	o-Xylene	Xylenes (total)	
			480	600	75	4,000	70	70	700	100	100	100	100	100	100	100	5	800	5	5	5	2,000	2,000	
Location	Sample Number	Date Collected	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
SB-2	W-181023-KS-03	10/23/2018	< 1	< 0.5	< 0.5	< 0.5	< 5.0	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	0.88	< 0.5	< 0.4	0.32 J	< 1.0	< 0.5	< 1.5	
SB-7	W-181023-KS-02	10/23/2018	<b>2110</b>	<b>573</b>	0.29 J	0.18 J	1.5 J	55.5	25.9	63.4	66.7	84.0	32.9	28.4	204	13.3	4.3	3.7	3.9	< 0.5	234	11.3	246	
SB-13	W-181023-KS-01	10/23/2018	< 1	< 0.5	< 0.5	< 0.5	< 5.0	< 1.0	< 0.5	6.9	< 0.5	< 1.0	< 1.0	< 1.0	< 0.5	< 0.5	2.0	< 0.5	< 0.4	< 0.5	< 1.0	< 0.5	< 1.5	

Note:  
 J - Estimated concentration  
**Bold** - Exceeds Wisconsin Enforcement Standard  
 ug/L - Micrograms per liter

Table 2

**VOC Soil Detects  
October 2018  
Former Lindey Cleaner  
Rhineland, Wisconsin**

				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Acetone	Naphthalene	Tetrachloroethene	N-Nonane
RCL - Direct Contact RCL Groundwater Protection				219,000	182,000	63,400,000	5,520	33,000	6,860
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Location	Depth (ft)	Sample Number	Date Collected						
SB-4	0-4	S-1801023-KJ-04A	10/23/2018	< 4.1	< 4.1	< 20.5	< 10.2	2.3 J	-
SB-5	0-4	S-1801023-KJ-05A	10/23/2018	< 4.3	< 4.3	< 21.4	< 10.7	<b>2.8 J</b>	-
SB-6	0-4	S-1801023-KJ-06A	10/23/2018	< 4.3	< 4.3	< 21.6	< 10.8	0.99 J	-
SB-7	0-4	S-1801023-KJ-07A	10/23/2018	1.8 J	1.2 J	26.9 J	0.57 J	<b>29.5</b>	< 570
SB-7	4-8	S-1801023-KJ-07B	10/23/2018	< 4.5	< 4.5	< 22.7	< 11.4	<b>4.6</b>	-
SB-7	8-12	S-1801023-KJ-07C	10/23/2018	0.97 J	0.43 J	< 21.5	< 10.7	<b>6.1</b>	-
SB-8	0-4	S-1801023-KJ-08A	10/23/2018	1.7 J	< 4.6	< 22.9	< 11.4	<b>21.4</b>	-
SB-8	4-8	S-1801023-KJ-08B	10/23/2018	1.6 J	< 4.2	< 21.2	< 10.6	<b>5.2</b>	1,020
SB-8	8-12	S-1801023-KJ-08C	10/23/2018	< 4.6	< 4.6	< 22.8	< 11.4	< 4.6	-
SB-9	0-4	S-1801023-KJ-09A	10/23/2018	< 4.3	< 4.3	< 21.2	< 10.7	<b>18.1</b>	-
SB-9	4-8	S-1801023-KJ-09B	10/23/2018	< 4.2	< 4.2	< 20.8	< 10.4	<b>10.6</b>	-
SB-9	8-12	S-1801023-KJ-09C	10/23/2018	< 4.7	< 4.7	< 23.7	< 11.8	< 4.7	-
SB-10	0-4	S-1801023-KJ-10A	10/23/2018	< 4.6	< 4.6	< 23.1	< 11.5	1.3 J	-
SB-11	0-4	S-1801023-KJ-11A	10/23/2018	< 4.9	< 4.9	< 24.5	< 12.3	< 4.9	-
SB-12	0-4	S-1801023-KJ-12A	10/23/2018	< 4.3	< 4.3	< 21.7	< 10.9	< 4.3	-
SB-13	0-4	S-1801023-KJ-13A	10/23/2018	< 4.6	< 4.6	19.9 J	< 11.5	< 4.6	-

## Note:

- J - Estimated concentration  
 - Not Analyzed  
**Bold** - Exceeds RCL Groundwater Protection  
 ug/kg - Micrograms per kilogram

Table 3

Summary of Select VOCs  
Former Lindey Cleaner  
Rhineland, Wisconsin

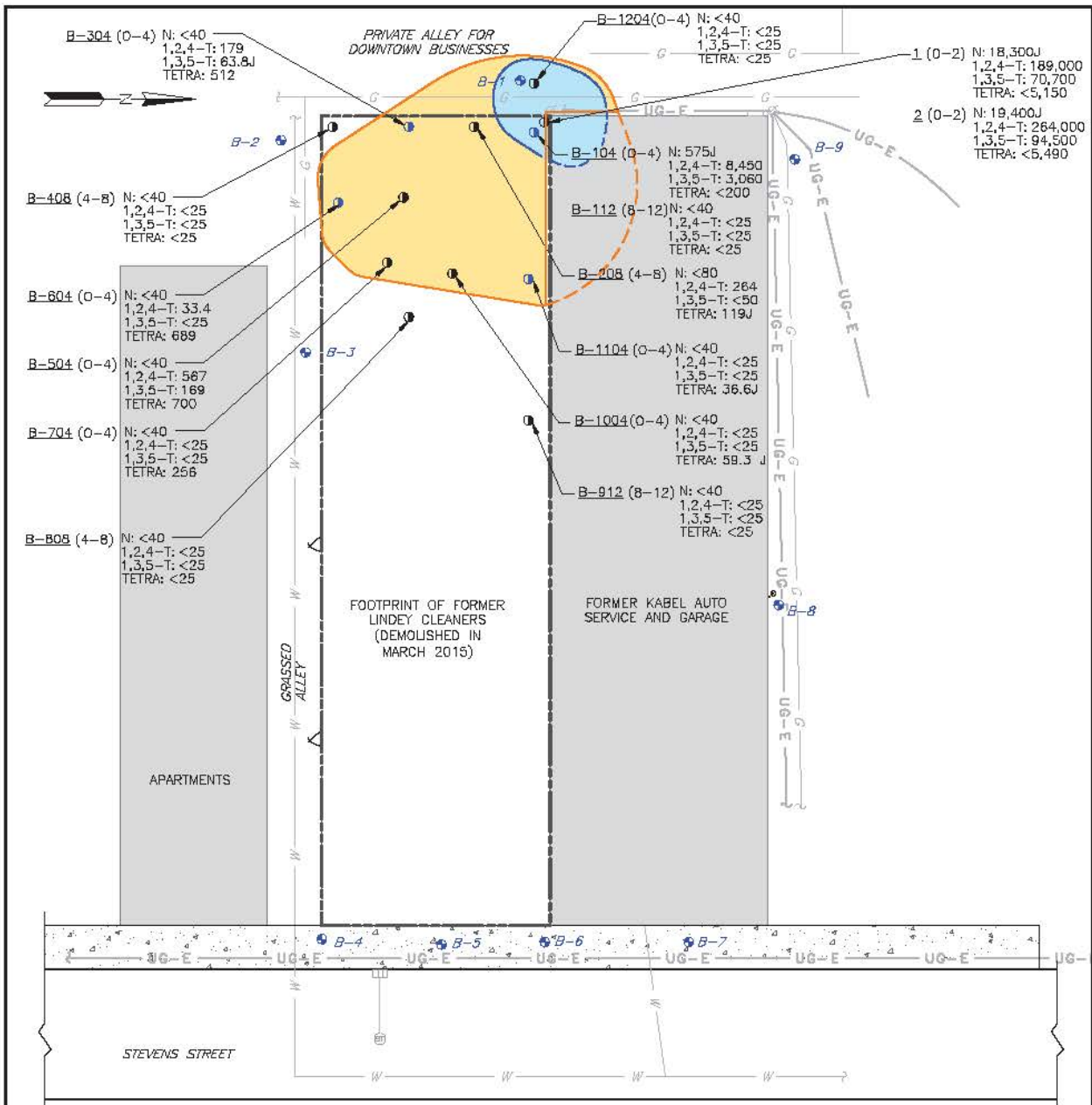
	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Tetrachloroethene
RCL - Direct Contact	219,000	182,000	5,520	33,000
RCL Groundwater Protection	689.4		329.1	2.3
	ug/kg	ug/kg	ug/kg	ug/kg

Location	Depth (ft)	Sample Area	Date Collected	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Tetrachloroethene
1	0-2	Northwest Corner	3/17/15	189,000 J	70,700	18,300 J	< 5,150
2	0-2	Northwest Corner	3/17/15	264,000 J	94,500	19,400 J	< 5,490
B-104	0-4	Northwest Corner	4/09/15	8,450 J	3,060	575 J	< 200
SB-7	0-4	Northwest Corner	10/23/18	1.8 J	1.2 J	0.57 J	29.5
B-304	0-4	North End	4/09/15	179	63.8	< 40	512
SB-8	0-4	North End	10/23/18	1.7 J	< 4.6	< 11.4	21.4
B-1104	0-4	North Central	4/09/15	< 40	< 25	< 25	36.6 J
SB-4	0-4	North Central	10/23/18	< 0.5	< 0.5	< 1	2.3 J
B-1004	0-4	Central	4/09/15	< 40	< 25	< 25	59.3 J
SB-05	0-4	Central	10/23/18	< 0.5	< 0.5	< 1	2.8 J

Note:

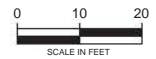
- J - Estimated concentration
- ug/kg - Micrograms per kilogram

Attachment A  
Figures and Tables from  
Sand Creek Report dated May 2015



**LEGEND**

- EXISTING BUILDING
  - FORMER LINDEY'S PROPERTY LINE
  - UNDERGROUND ELECTRIC
  - GAS LINE
  - WATER LINE
  - CATCH BASIN
  - STORM SEWER MANHOLE
  - UTILITY POLE
  - CONCRETE SIDEWALK
  - SOIL BORING CONVERTED TO 1" MONITORING WELL
  - SOIL BORING LOCATION (APRIL 9, 2015)
  - ESTIMATED EXTENT FOR SOILS EXCEEDING DIRECT CONTACT RCL
  - ESTIMATED EXTENT OF SOILS EXCEEDING GROUNDWATER PATHWAY RCL (RESIDUAL CONTAMINANT LEVEL)
- ABBREVIATIONS USED**
- N=NAPHTHALENE
  - 1,2,4-TRIMETHYLEBENZENE
  - 1,3,5-TRIMETHYLEBENZENE
  - TETRA=TETRACHLORETHENE
  - ALL IN (µg/kg) MICROGRAMS PER KILOGRAM
  - J=RESULTS BETWEEN THE LIMIT OF DETECTION AND THE LIMIT OF QUANTINATION

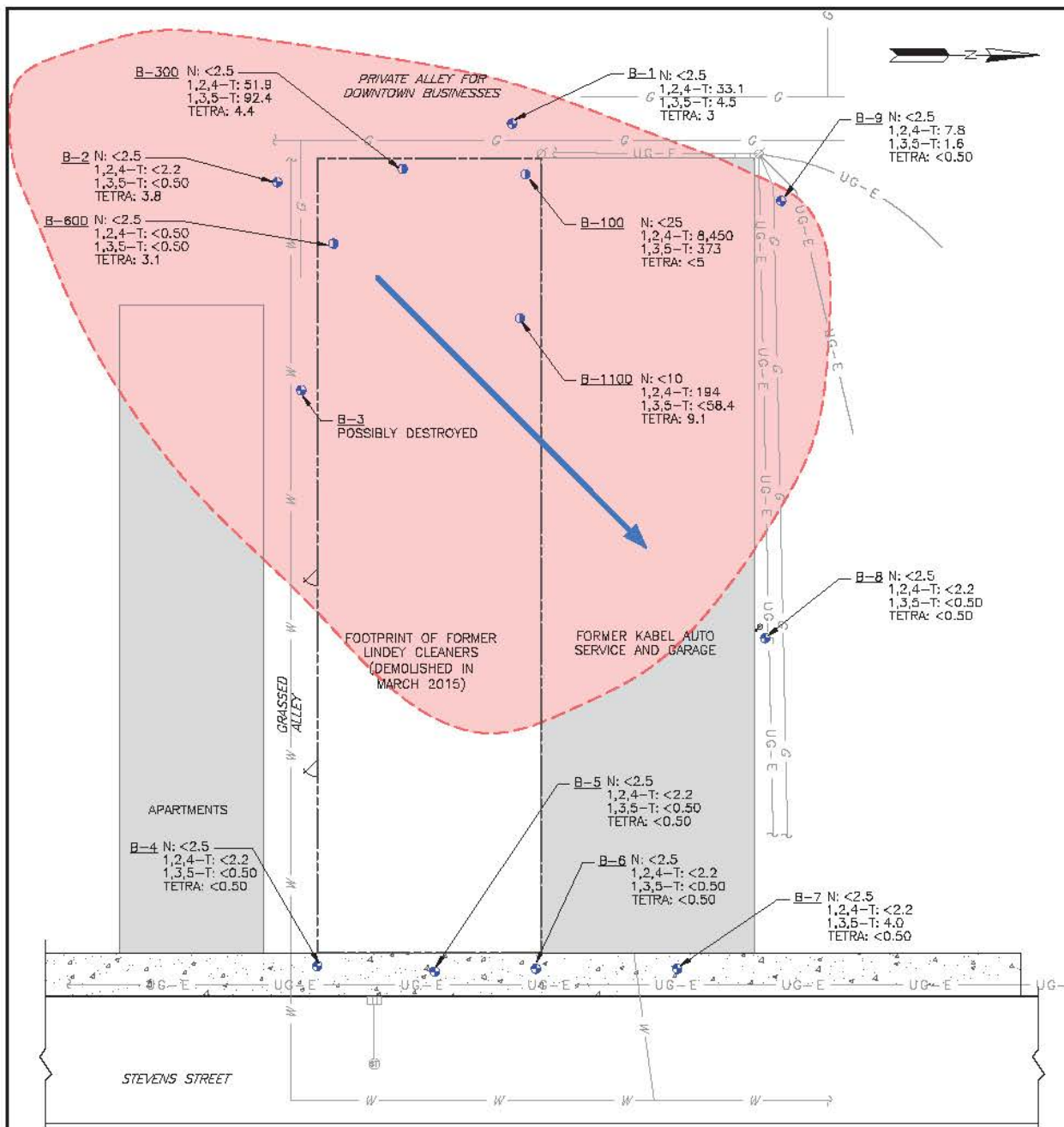


**APRIL 2015  
SOIL RESULTS**

**FORMER LINDEY CLEANERS  
34 SOUTH STEVENS STREET  
RHINELANDER, WI**

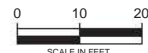
DATE:	MAY 2015	DRAWN BY:	KAP
SCALE:	1"=20'	APPROVED BY:	CJR
<b>FIGURE 3</b>			

**Taken from Sand Creek Consultants report dated May 2015**



**LEGEND**

- EXISTING BUILDING
  - FORMER LINDEY'S PROPERTY LINE
  - UNDERGROUND ELECTRIC
  - GAS LINE
  - WATER LINE
  - CATCH BASIN
  - STORM SEWER MANHOLE
  - UTILITY POLE
  - CONCRETE SIDEWALK
  - SOIL BORING CONVERTED TO 1" MONITORING WELL
  - SOIL BORING WITH WATER SAMPLE COLLECTED (APRIL 9, 2015)
  - ESTIMATED FLOW DIRECTION BASED ON 05/05/15 GROUNDWATER ELEVATIONS
  - EXTENT OF PAL EXCEEDENCES FOR TETRACHLOROETHYLENE (APPROXIMATE)
- ABBREVIATIONS USED**  
 N=NAPHTHALENE  
 1,2,4-TRIMETHYLEBENZENE  
 1,3,5-TRIMETHYLEBENZENE  
 TETRA=TETRACHLOROETHENE  
 ALL IN (µg/l) MICROGRAMS PER LITER  
 BOLD=EXCEEDS ENFORCEMENT STANDARDS



**APRIL 2015  
GROUNDWATER  
RESULTS**

**FORMER LINDEY CLEANERS  
34 SOUTH STEVENS STREET  
RHINELANDER, WI**

DATE:	MAY 2015	DRAWN BY:	KAP
SCALE:	1"=20'	APPROVED BY:	CJR
<b>FIGURE 4</b>			

**Taken from Sand Creek Consultants  
report dated May 2015**

TABLE 1

SOIL CHEMISTRY DATA  
Former Lindey Cleaners  
34 South Stevens Street  
Rhineland, Wisconsin

Sample Location	Sample Date	Depth of Sample (feet)	Volatile Organic Compounds									
			<i>n</i> -Butylbenzene	<i>sec</i> -Butylbenzene	<i>p</i> -Isopropyltoluene	Naphthalene	<i>n</i> -Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	Toluene	Xylenes (Total)
			(µg/kg)									
RCL - Direct Contact			108,000	145,000	162,000	5,150	264,000	89,800	182,000	30,700	818,000	258,000
RCL - Groundwater Protection			NE	NE	NE	329.1	NE	691	2.3	553.6	1,970	
1	03/17/15	0-2	<5150	13,600 J	22,900	18,300 J	7,210 J	189,000	70,700	<5150	<5150	<5150
2	03/17/15	0-2	<5490	21,600	30,900	19,400 J	10,100 J	264,000	94,500	<5,490	<5,490	<11,000
B-104	04/09/15	0-4	<200	740	1040	575 J	388 J	8,450	3060	<200	<200	<600
B-112	04/09/15	8-12	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
B-208	04/09/15	4-8	<50.0	<50.0	<50.0	<80.1	<50.0	264	<50.0	119 J	<50.0	<150
B-304	04/09/15	0-4	29.7 J	<25.0	<25.0	<40.0	<25.0	179	63.8 J	512	<25.0	<75.0
B-408	04/09/15	4-8	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
B-504	04/09/15	0-4	47.6 J	31.8 J	30.0 J	<40.0	47.2 J	567	169	700	<25.0	<75.0
B-604	04/09/15	0-4	<25.0	<25.0	<25.0	<40.0	<25.0	33.4 J	<25.0	689	44.1 J	<75.0
B-704	04/09/15	0-4	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	256	<25.0	<75.0
B-808	04/09/15	4-8	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
B-912	04/09/15	8-12	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0
B-1004	04/09/15	0-4	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	59.3 J	<25.0	<75.0
B-1104	04/09/15	0-4	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	36.6 J	<25.0	<75.0
B-1204	04/09/15	0-4	<25.0	<25.0	<25.0	<40.0	<25.0	<25.0	<25.0	<25.0	<25.0	<75.0

Taken from Sand Creek Consultants Report Dated May 2015

TABLE 3  
GROUNDWATER CHEMISTRY DATA  
Former Lindey Cleaners  
34 South Stevens Street  
Rhineland, Wisconsin

Sample Location	Sample Date	Volatile Organic Compounds																				
		Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Chloroform	Dichlorodifluoromethane	1,1-Dichloroethane	cis-1,2-Dichloroethane	1,2-Dichloropropane	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Tetrachloroethene	Toluene	Xylenes (Total)
		(µg/l)																				
NR 140 Preventative Action Limit		0.5	0.06	NE	NE	NE	0.6	200	85	7	0.5	140	NE	NE	0.5	10	NE	96	0.5	160	400	
NR 140 Enforcement Standard		5	0.6	NE	NE	NE	6	1000	850	70	5	700	NE	NE	5	100	NE	480	5	800	2000	
B-1	09/22/14	<2.5	<2.5	30	25.7	4.3 J	<12.5	<1.0	<1.2	<1.3	<1.2	6.9	20.5	35.6	<1.2	28.8	55.9	911	256	<2.5	<2.5	10.9 J
	04/14/15	<0.50	<0.50	<0.50	7.3	0.90 J	<2.5	<0.22	1.1	<0.26	2.3	<0.50	3.1	4.4	<0.23	<2.5	8.8	33.1	4.5	3.0	<0.50	<1.5
B-2	09/22/14	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	3.6	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	3.8	<0.50	<1.5
B-3	09/22/14	<0.50	<0.50	<0.50	<2.2	0.46 J	<2.5	<0.20	<0.24	<0.26	<0.23	1.6	1.5	1.7	<0.23	<2.5	4.6	15.3	2.7	2.4	<0.50	<1.5
B-4	09/22/14	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
B-5	09/22/14	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
B-6	09/22/14	<0.50	0.68 J	<0.50	<2.2	<0.18	5.8	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	4.4 J	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
B-7	09/22/14	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	0.36 J	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	4.0	<0.50	<0.50	<1.5
B-8	09/22/14	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.20	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	<0.23	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	<0.50	0.29 J	<2.5	<0.50	<2.2	<0.50	<0.50	<0.50	<1.5
B-9	09/22/14	<0.50	<0.50	4.5	16.9	3.4	<2.5	0.32 J	<0.24	<0.26	<0.23	1.1	6.5	8.7	<0.23	11.9	10.9	51.9	20.8	<0.50	<0.50	<1.5
	04/14/15	<0.50	<0.50	<0.50	<2.2	<0.18	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	0.60 J	<0.50	<0.23	<2.5	1.2	7.8	1.6	<0.50	<0.50	<1.5
B-100	04/09/15	<5.0	<5.0	<5.0	26.5 J	<1.8	<25.0	<2.2	<2.4	<2.6	<2.3	20.2	37.3	39.1	<2.3	<25.0	103	8450	373	<5.0	<5.0	<15.0
B-300	04/09/15	<0.50	<0.50	<0.50	12.1	4.7	<2.5	<0.22	<0.24	0.56 J	<0.23	8.4	9.5	9.0	<0.23	<2.5	14.6	51.9	92.4	4.4	<0.50	6.1
B-600	04/09/15	<0.50	<0.50	<0.50	<2.2	0.54 J	<2.5	<0.22	<0.24	<0.26	<0.23	<0.50	<0.14	2.7	<0.23	<2.5	<0.50	<0.50	<0.50	3.1	<0.50	1.7 J
B-1100	04/09/15	<2.0	<2.0	<2.0	<8.7	<0.72	<10.0	<0.90	<0.97	7.5	<0.93	<2.0	3.5 J	5.7	<0.93	<10.0	12.1	194	58.4	9.1	<2.0	<6.0

Notes:  
 Blank Cell = No data.  
 4.4 Bold result indicates exceedance of NR 140 Preventative Action Limit.  
 12 Bold and outlined result indicates exceedance of NR 140 Enforcement Standard.  
 -- = Not detected; below method detection limit. See laboratory reports for detection limits.

J = Analyte was detected but is below the reporting limit. The concentration is estimated.

Taken from Sand Creek Consultants Report Dated May 2015



# Attachment B

## Stratigraphic Borehole Logs



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-01  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID	
2	FILL-well graded sand with fine gravel, brown		<p>2-inch diameter borehole Bentonite Pellets</p>	1	2.0	2.0		0.0/0.0	
4	SP-SAND, light brown, medium grained	3.00							
6	-1-inch coal seam, dark brown sand with trace gravel	4.50							
8	SP-SAND, tan to light brown, fine grained, occasional orange mottling	6.00			2	2.0	2.0		0.3/0.0
10				3	3.0	3.0		0.0/0.0	
12	END OF BOREHOLE @ 12.0ft BGS	12.00							
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-02  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
2	FILL-well graded sand with fine gravel, light brown		<p style="font-size: small;">2-inch diameter borehole</p> <p style="font-size: small;">Bentonite Pellets</p>	1	2.0			0.0/0.0
4	SP-SAND, light brown, medium grained, trace silt -2-inch fine gravel zone	3.00 4.40 4.50		2	3.2			0.0/0.0
6	SP-SAND, tan to light brown, fine grained, occasional orange mottling	7.00		3	3.2			0.3/0.0
8	SP-SAND, fine grained, light brown			4	4.0			0.0/0.0
10				5	4.0			1.2/0.0
12								
14			▽					
16								
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22	<p>A temporary well screen was installed to the bottom of the borehole and a water sample was collected for chemical analysis.</p>							
24								
26								
28								
30								
32								
34								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▽  
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-03  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID	
2	FILL-well graded sand with fine gravel, brown		<p>2-inch diameter borehole Bentonite Pellets</p>	1	2.0	2.0		0.0/0.0	
4	SP-SAND, brown, fine-medium grained	2.00							
6	SM-SAND, silty, light brown	6.00			2	3.0	3.0		0.0/0.0
8	SP-SAND, tan to light brown, fine grained, occasional orange mottling	8.00							
10					3	3.0	3.0		0.3/0.0
12	END OF BOREHOLE @ 12.0ft BGS	12.00							
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-04  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID	
2	FILL-well graded sand with fine gravel, light brownish-tan		<p style="font-size: small;">2-inch diameter borehole Bentonite Pellets</p>	1	2.0	2.0		0.0/0.0	
4	SP-SAND, brown, fine-medium grained, trace fine gravel	3.00			2	2.0	2.0		0.0/0.0
6	-1-inch charcoal seam	6.90			3	3.0	3.0		0.0/0.0
8	SP-SAND, light brown, fine grained, occasional orange mottling	7.00							
12	END OF BOREHOLE @ 12.0ft BGS	12.00							
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18






# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-06  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
2	FILL-well graded sand with fine gravel, brown	2.50	 <p>2-inch diameter borehole Bentonite Pellets</p>	1	2.0	2.0	0.0/0.0	
4	SP-SAND, light brown, fine-medium grained	5.00		2	2.0	2.0	0.0/0.0	
6	-green coarse gravel piece	9.00		3	3.2	3.2	0.0/0.0	
10	-3-inch brown sand with trace gravel zone -tan to light brown	12.00						
12	END OF BOREHOLE @ 12.0ft BGS	12.00						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-07  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
2	FILL-well graded sand with fine gravel, light brown	2.00	<p style="text-align: center;">2-inch diameter borehole</p> <p style="text-align: center;">Bentonite Pellets</p> <p style="text-align: center;">▽</p>	1	0-2.00	2.0		0.0/0.0
4	SP-SAND, brown-dark brown, medium grained, occasional fine gravel, abundant organic material to 4' bgs -wood pieces -coal seam, slight odor	3.50		2	2.00-4.00	2.0		0.0/0.0
6	SP-SAND, brown, fine to medium grained, lighter with depth	6.00		3	4.00-6.00	2.0		0.0/0.0
10	SM-SAND, silty, dark brown, occasional fine gravel SP-SAND, light brown, fine-medium grained	9.50 10.00						
14	SM-SAND, silty, brown, fine grained	14.00						
16	SP-SAND, light brown-brown, fine-medium grained -3-inch gray zone	15.00 15.50						
18	-brown, 2-inch fine gravel layer	18.00						
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22	A temporary well screen was installed to the bottom of the borehole and a water sample was collected for chemical analysis.							
24	An additional soil sample was collected from the 0-4 ft bgs interval for n-nonane chemical analysis.							
26								
28								
30								
32								
34								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▽  
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18






# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-08  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID	
2	FILL-well graded sand with fine gravel, light brown								
2	SP-SAND, with abundant organic material, dark brown, medium grained, occasional fine gravel	2.00	 <p>2-inch diameter borehole Bentonite Pellets</p>	1	2.00	2.00		0.0/01.5	
4	-wood pieces	5.00							
6	-trace coal seam	5.90							
6	SP-SAND, brown, fine-medium grained, lighter with depth	6.00			2	2.00	2.00		112/0.7
8									
10	-1-inch green gravel layer, occasional orange mottling to 11' bgs	10.00							
10					3	2.4	2.4		0.0/0.0
12	END OF BOREHOLE @ 12.0ft BGS	12.00							
14	An additional soil sample was collected from the 4-8 ft bgs interval for n-nonane chemical analysis.								
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS




OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-09  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
2	FILL-well graded sand with fine gravel, brown	2.00	 <p>2-inch diameter borehole Bentonite Pellets</p>	1	2.0	2.0		0.0/0.0
4	SP-SAND, brown-dark brown, medium grained, occasional gravel and organic layers -1-inch charcoal seam -2-inch black organic layer	2.50 3.50		2	2.0	2.0		0.0/0.0
6	SP-SAND, brown, fine-medium grained, trace fine gravel, lighter with depth	5.00		3	2.4	2.4		0.0/0.0
10	-1-inch green gravel layer	10.00						
12	-2-inch silty fine sand zone END OF BOREHOLE @ 12.0ft BGS	11.50 12.00						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-10  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID	
	ASPHALT	0.50							
	FILL-well graded sand with fine gravel, brown								
2	SP-SAND, with organic material, dark brown, medium grained, occasional fine gravel, trace charcoal	2.00			1	1.6			0.0/0.0
4	SP-SAND, orangish-brown, fine-medium grained	4.00							
6	SP-SAND, brown, medium-coarse grained, occasional fine gravel -light brown-orangish light brown	5.50			2	2.4			0.0/0.0
8									
10	SP-SAND, light brown, fine grained, occasional orange mottling	10.00			3	2.4			0.0/0.0
12	-brown to 11.5' bgs	11.00							
	END OF BOREHOLE @ 12.0ft BGS	12.00							
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-11  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
2	ASPHALT	0.50	<p style="font-size: small;">2-inch diameter borehole Bentonite Pellets</p>		1 2 3	2.0 0.4 2.8	0.0/0.0 NA/0.0 0.0/0.0	
	FILL-with fine gravel, brown-dark brown, fine-medium grained	3.00						
4	SP-SAND, light brown, fine grained, occasional fine gravel	4.00						
6	NO RECOVERY	7.00						
8	SP-SAND, orangish-brown, fine grained, trace fine gravel	8.00						
	SP-SAND, brown, fine-medium grained, trace fine gravel	8.50						
10	SP-SAND, orangish-light brown, fine-coarse grained	10.00						
12	-fine-coarse gravel, concrete-like	12.00						
	END OF BOREHOLE @ 12.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-12  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE					
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID	
2	ASPHALT	0.50	<p style="font-size: small;">2-inch diameter borehole Bentonite Pellets</p>	1	0.50 - 1.00	1.0		0.0/0.0	
4	FILL-well graded sand with fine gravel, dark brownish-gray	4.00		2	1.00 - 1.60	1.6		0.0/0.0	
6	SM-SAND, silty, fine grained, orangish-brown, occasional fine gravel	6.00							
8	SP-SAND, orangish brown, fine grained, trace fine gravel	8.90							
10	-2-inch green and pink gravel layer	9.00							
12	SP-SAND, orangish-brown, fine grained, occasional 1-inch fine gravel zones, coarsening sand grains with depth	11.50			3	11.50 - 12.00	2.4		0.0/0.0
12	-coarse grained	12.00							
	END OF BOREHOLE @ 12.0ft BGS								
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS  

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Lindey Cleaners  
 PROJECT NUMBER: 11139422  
 CLIENT: City of Rhinelander  
 LOCATION: Rhinelander, Wisconsin

HOLE DESIGNATION: SB-13  
 DATE COMPLETED: October 23, 2018  
 DRILLING METHOD: Geoprobe  
 FIELD PERSONNEL: K. Jenkin

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Geoprobe Boring	SAMPLE				
				NUMBER	INTERVAL	REC (ft)	N' VALUE	PID
0	ASPHALT	0.50						
2	FILL-well graded sand with fine gravel, light brown			1	2.0	2.0	0.0/0.0	
4	-wood pieces	3.90						
6	SP-SAND, orange-brown, fine-medium grained, with trace coarse sand grains-fine gravel	4.00		2	2.4	2.4	84/0.0	
8								
10	SP-SAND, brown-dark brown, medium-coarse grained, lighter with depth	8.50						
12	-trace gravel	9.50		3	3.2	3.2	9.2/0.0	
14	SP-SAND, light brown, fine grained, trace gravel	10.00						
16	SP-SAND, light brown, medium-coarse grained, occasional gravel	11.00						
18	SP-SAND, light brown fine-medium grained, occasional fine gravel layers and silt zones	13.00						
20	-6-inch orange zone	13.50		4	3.6	3.6	1.2/0.0	
22								
24								
26								
28								
30								
32								
34								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22	A temporary well screen was installed to the bottom of the borehole and a water sample was collected for chemical analysis.							

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ∇  
 CHEMICAL ANALYSIS ○

OVERBURDEN LOG 11139422.GPJ CRA\_CORP.GDT 12/5/18

# Attachment C

## Data Validation Memorandum

November 08, 2018

Mr. Grant Anderson  
GHD  
1801 Old Highway 8 NW  
Suite 114  
St. Paul, MN 55112

RE: Project: 11139422 Former Lindey Cleaner  
Pace Project No.: 10452955

Dear Mr. Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Tina Soltani  
tina.soltani@pacelabs.com  
(612)607-6384  
Project Manager

Enclosures

cc: Ryan Aamot, GHD Services Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

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### Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452955001	S-1801023-KJ-01A	Solid	10/23/18 11:50	10/24/18 14:00
10452955002	S-1801023-KJ-02A	Solid	10/23/18 10:55	10/24/18 14:00
10452955003	S-1801023-KJ-03A	Solid	10/23/18 11:35	10/24/18 14:00
10452955004	S-1801023-KJ-04A	Solid	10/23/18 12:10	10/24/18 14:00
10452955005	S-1801023-KJ-05A	Solid	10/23/18 12:25	10/24/18 14:00
10452955006	S-1801023-KJ-06A	Solid	10/23/18 12:40	10/24/18 14:00
10452955007	S-1801023-KJ-07A	Solid	10/23/18 12:50	10/24/18 14:00
10452955008	S-1801023-KJ-08A	Solid	10/23/18 13:05	10/24/18 14:00
10452955009	S-1801023-KJ-09A	Solid	10/23/18 13:20	10/24/18 14:00
10452955010	S-1801023-KJ-10A	Solid	10/23/18 13:35	10/24/18 14:00
10452955011	S-1801023-KJ-11A	Solid	10/23/18 13:50	10/24/18 14:00
10452955012	S-1801023-KJ-12A	Solid	10/23/18 14:05	10/24/18 14:00
10452955013	S-1801023-KJ-13A	Solid	10/23/18 14:25	10/24/18 14:00
10452955014	S-1801023-KJ-01B	Solid	10/23/18 11:55	10/24/18 14:00
10452955015	S-1801023-KJ-02B	Solid	10/23/18 11:00	10/24/18 14:00
10452955016	S-1801023-KJ-03B	Solid	10/23/18 11:40	10/24/18 14:00
10452955017	S-1801023-KJ-04B	Solid	10/23/18 12:15	10/24/18 14:00
10452955018	S-1801023-KJ-05B	Solid	10/23/18 12:30	10/24/18 14:00
10452955019	S-1801023-KJ-06B	Solid	10/23/18 12:45	10/24/18 14:00
10452955020	S-1801023-KJ-07B	Solid	10/23/18 12:55	10/24/18 14:00
10452955021	S-1801023-KJ-08B	Solid	10/23/18 13:10	10/24/18 14:00
10452955022	S-1801023-KJ-09B	Solid	10/23/18 13:25	10/24/18 14:00
10452955023	S-1801023-KJ-10B	Solid	10/23/18 13:40	10/24/18 14:00
10452955024	S-1801023-KJ-11B	Solid	10/23/18 13:55	10/24/18 14:00
10452955025	S-1801023-KJ-12B	Solid	10/23/18 14:10	10/24/18 14:00
10452955026	S-1801023-KJ-13B	Solid	10/23/18 14:30	10/24/18 14:00
10452955027	S-1801023-KJ-01C	Solid	10/23/18 12:00	10/24/18 14:00
10452955028	S-1801023-KJ-02C	Solid	10/23/18 11:05	10/24/18 14:00
10452955029	S-1801023-KJ-03C	Solid	10/23/18 11:45	10/24/18 14:00
10452955030	S-1801023-KJ-04C	Solid	10/23/18 12:20	10/24/18 14:00
10452955031	S-1801023-KJ-05C	Solid	10/23/18 12:35	10/24/18 14:00
10452955032	S-1801023-KJ-06C	Solid	10/23/18 12:50	10/24/18 14:00
10452955033	S-1801023-KJ-07C	Solid	10/23/18 13:00	10/24/18 14:00
10452955034	S-1801023-KJ-08C	Solid	10/23/18 13:15	10/24/18 14:00
10452955035	S-1801023-KJ-09C	Solid	10/23/18 13:30	10/24/18 14:00
10452955036	S-1801023-KJ-10C	Solid	10/23/18 13:45	10/24/18 14:00
10452955037	S-1801023-KJ-11C	Solid	10/23/18 14:00	10/24/18 14:00

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10452955038	S-1801023-KJ-12C	Solid	10/23/18 14:15	10/24/18 14:00
10452955039	S-1801023-KJ-13C	Solid	10/23/18 14:35	10/24/18 14:00
10452955043	W-181023-KS-01	Water	10/23/18 10:55	10/24/18 14:00
10452955044	W-181023-KS-02	Water	10/23/18 13:45	10/24/18 14:00
10452955045	W-181023-KS-03	Water	10/23/18 14:20	10/24/18 14:00
10452955046	W TRIP BLANK	Water	10/23/18 00:00	10/24/18 14:00
10452955047	S TRIP BLANK	Solid	10/23/18 00:00	10/24/18 14:00
10452955048	U TRIP BLANK	Solid	10/23/18 00:00	10/24/18 14:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10452955004	S-1801023-KJ-04A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955005	S-1801023-KJ-05A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955006	S-1801023-KJ-06A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955007	S-1801023-KJ-07A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955008	S-1801023-KJ-08A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955009	S-1801023-KJ-09A	ASTM D2974	WG	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955010	S-1801023-KJ-10A	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955011	S-1801023-KJ-11A	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955012	S-1801023-KJ-12A	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955013	S-1801023-KJ-13A	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955020	S-1801023-KJ-07B	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955021	S-1801023-KJ-08B	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955022	S-1801023-KJ-09B	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955033	S-1801023-KJ-07C	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955034	S-1801023-KJ-08C	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955035	S-1801023-KJ-09C	ASTM D2974	JDL	1	PASI-M
		EPA 8260B	CD2	70	PASI-M
10452955043	W-181023-KS-01	EPA 8260B	DS2	72	PASI-M
10452955044	W-181023-KS-02	EPA 8260B	DS2	72	PASI-M
10452955045	W-181023-KS-03	EPA 8260B	DS2	72	PASI-M
10452955046	W TRIP BLANK	EPA 8260B	DS2	72	PASI-M
10452955047	S TRIP BLANK	EPA 8260B	GDM	70	PASI-M

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 11139422 Former Lindey Cleaner  
Pace Project No.: 10452955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10452955048	U TRIP BLANK	EPA 8260B	CD2	70	PASI-M

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10452955004</b>	<b>S-1801023-KJ-04A</b>					
ASTM D2974	Percent Moisture	6.1	%	0.10	10/25/18 09:44	
EPA 8260B	Methylene Chloride	15.4J	ug/kg	20.5	10/26/18 17:42	CO
EPA 8260B	Tetrachloroethene	2.3J	ug/kg	4.1	10/26/18 17:42	
<b>10452955005</b>	<b>S-1801023-KJ-05A</b>					
ASTM D2974	Percent Moisture	6.7	%	0.10	10/25/18 09:53	
EPA 8260B	Methylene Chloride	13.6J	ug/kg	21.4	10/30/18 23:11	CO
EPA 8260B	Tetrachloroethene	2.8J	ug/kg	4.3	10/30/18 23:11	
<b>10452955006</b>	<b>S-1801023-KJ-06A</b>					
ASTM D2974	Percent Moisture	6.0	%	0.10	10/25/18 09:56	
EPA 8260B	Methylene Chloride	17.8J	ug/kg	21.6	10/30/18 22:52	CO
EPA 8260B	Tetrachloroethene	0.99J	ug/kg	4.3	10/30/18 22:52	
<b>10452955007</b>	<b>S-1801023-KJ-07A</b>					
ASTM D2974	Percent Moisture	11.1	%	0.10	10/25/18 09:58	
EPA 8260B	Acetone	26.9J	ug/kg	29.4	10/30/18 22:14	
EPA 8260B	Methylene Chloride	18.9J	ug/kg	29.4	10/30/18 22:14	CO
EPA 8260B	Naphthalene	0.57J	ug/kg	14.7	10/30/18 22:14	
EPA 8260B	Tetrachloroethene	29.5	ug/kg	5.9	10/30/18 22:14	
EPA 8260B	1,2,4-Trimethylbenzene	1.8J	ug/kg	5.9	10/30/18 22:14	
EPA 8260B	1,3,5-Trimethylbenzene	1.2J	ug/kg	5.9	10/30/18 22:14	
<b>10452955008</b>	<b>S-1801023-KJ-08A</b>					
ASTM D2974	Percent Moisture	10.6	%	0.10	10/25/18 10:00	
EPA 8260B	Tetrachloroethene	21.4	ug/kg	4.6	10/26/18 16:26	CO,IS
EPA 8260B	1,2,4-Trimethylbenzene	1.7J	ug/kg	4.6	10/26/18 16:26	CO,IS
<b>10452955009</b>	<b>S-1801023-KJ-09A</b>					
ASTM D2974	Percent Moisture	8.3	%	0.10	10/25/18 10:02	
EPA 8260B	Methylene Chloride	24.2	ug/kg	21.3	10/30/18 22:33	CO
EPA 8260B	Tetrachloroethene	18.1	ug/kg	4.3	10/30/18 22:33	
<b>10452955010</b>	<b>S-1801023-KJ-10A</b>					
ASTM D2974	Percent Moisture	10.7	%	0.10	11/06/18 17:23	
EPA 8260B	Methylene Chloride	16.7J	ug/kg	23.1	11/02/18 17:32	
EPA 8260B	Tetrachloroethene	1.3J	ug/kg	4.6	11/02/18 17:32	
<b>10452955011</b>	<b>S-1801023-KJ-11A</b>					
ASTM D2974	Percent Moisture	9.6	%	0.10	11/06/18 17:23	
EPA 8260B	Methylene Chloride	9.2J	ug/kg	24.5	11/02/18 17:13	
<b>10452955012</b>	<b>S-1801023-KJ-12A</b>					
ASTM D2974	Percent Moisture	6.2	%	0.10	11/06/18 17:23	
EPA 8260B	Methylene Chloride	12.4J	ug/kg	21.7	11/02/18 16:54	
<b>10452955013</b>	<b>S-1801023-KJ-13A</b>					
ASTM D2974	Percent Moisture	4.5	%	0.10	11/06/18 17:23	
EPA 8260B	Acetone	19.9J	ug/kg	22.9	11/02/18 16:35	
EPA 8260B	Methylene Chloride	23.4	ug/kg	22.9	11/02/18 16:35	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10452955020</b>	<b>S-1801023-KJ-07B</b>					
ASTM D2974	Percent Moisture	13.6	%	0.10	11/06/18 17:24	
EPA 8260B	Methylene Chloride	12.6J	ug/kg	22.7	11/02/18 16:16	
EPA 8260B	Tetrachloroethene	4.6	ug/kg	4.5	11/02/18 16:16	
<b>10452955021</b>	<b>S-1801023-KJ-08B</b>					
ASTM D2974	Percent Moisture	8.9	%	0.10	11/06/18 17:24	
EPA 8260B	Methylene Chloride	14.6J	ug/kg	21.2	11/02/18 15:57	
EPA 8260B	Tetrachloroethene	5.2	ug/kg	4.2	11/02/18 15:57	
EPA 8260B	1,2,4-Trimethylbenzene	1.6J	ug/kg	4.2	11/02/18 15:57	
<b>10452955022</b>	<b>S-1801023-KJ-09B</b>					
ASTM D2974	Percent Moisture	5.2	%	0.10	11/06/18 17:24	
EPA 8260B	Methylene Chloride	8.9J	ug/kg	20.8	11/02/18 15:38	
EPA 8260B	Tetrachloroethene	10.6	ug/kg	4.2	11/02/18 15:38	
<b>10452955033</b>	<b>S-1801023-KJ-07C</b>					
ASTM D2974	Percent Moisture	4.9	%	0.10	11/07/18 17:08	
EPA 8260B	Methylene Chloride	9.7J	ug/kg	21.5	11/02/18 15:19	
EPA 8260B	Tetrachloroethene	6.1	ug/kg	4.3	11/02/18 15:19	
EPA 8260B	1,2,4-Trimethylbenzene	0.97J	ug/kg	4.3	11/02/18 15:19	
EPA 8260B	1,3,5-Trimethylbenzene	0.43J	ug/kg	4.3	11/02/18 15:19	
<b>10452955034</b>	<b>S-1801023-KJ-08C</b>					
ASTM D2974	Percent Moisture	2.2	%	0.10	11/07/18 17:09	
EPA 8260B	Methylene Chloride	13.5J	ug/kg	22.8	11/02/18 15:00	
<b>10452955035</b>	<b>S-1801023-KJ-09C</b>					
ASTM D2974	Percent Moisture	7.0	%	0.10	11/07/18 17:09	
EPA 8260B	Methylene Chloride	16.4J	ug/kg	23.7	11/02/18 14:41	
<b>10452955043</b>	<b>W-181023-KS-01</b>					
EPA 8260B	p-Isopropyltoluene	6.9	ug/L	1.0	10/31/18 17:39	
EPA 8260B	Tetrachloroethene	2.0	ug/L	0.50	10/31/18 17:39	
<b>10452955044</b>	<b>W-181023-KS-02</b>					
EPA 8260B	2-Butanone (MEK)	1.5J	ug/L	5.0	10/31/18 18:03	
EPA 8260B	n-Butylbenzene	28.4	ug/L	1.0	10/31/18 18:03	
EPA 8260B	sec-Butylbenzene	55.5	ug/L	1.0	10/31/18 18:03	
EPA 8260B	tert-Butylbenzene	13.3	ug/L	0.50	10/31/18 18:03	
EPA 8260B	1,2-Dichlorobenzene	0.29J	ug/L	0.50	10/31/18 18:03	
EPA 8260B	1,4-Dichlorobenzene	0.18J	ug/L	0.50	10/31/18 18:03	
EPA 8260B	cis-1,2-Dichloroethene	25.9	ug/L	0.50	10/31/18 18:03	
EPA 8260B	Ethylbenzene	66.7	ug/L	0.50	10/31/18 18:03	
EPA 8260B	Isopropylbenzene (Cumene)	84.0	ug/L	1.0	10/31/18 18:03	
EPA 8260B	p-Isopropyltoluene	63.4	ug/L	1.0	10/31/18 18:03	
EPA 8260B	Naphthalene	32.9	ug/L	1.0	10/31/18 18:03	
EPA 8260B	n-Propylbenzene	204	ug/L	0.50	10/31/18 18:03	
EPA 8260B	Tetrachloroethene	4.3	ug/L	0.50	10/31/18 18:03	
EPA 8260B	Toluene	3.7	ug/L	0.50	10/31/18 18:03	
EPA 8260B	Trichloroethene	3.9	ug/L	0.40	10/31/18 18:03	

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## SUMMARY OF DETECTION

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>10452955044</b>	<b>W-181023-KS-02</b>					
EPA 8260B	1,2,4-Trimethylbenzene	2110	ug/L	10.0	11/01/18 09:07	
EPA 8260B	1,3,5-Trimethylbenzene	573	ug/L	10.0	11/01/18 09:07	
EPA 8260B	Xylene (Total)	246	ug/L	30.0	11/01/18 09:07	
EPA 8260B	m&p-Xylene	234	ug/L	20.0	11/01/18 09:07	
EPA 8260B	o-Xylene	11.3	ug/L	0.50	10/31/18 18:03	
<b>10452955045</b>	<b>W-181023-KS-03</b>					
EPA 8260B	Tetrachloroethene	0.88	ug/L	0.50	11/06/18 11:38	
EPA 8260B	Trichlorofluoromethane	0.32J	ug/L	0.50	11/06/18 11:38	
<b>10452955048</b>	<b>U TRIP BLANK</b>					
EPA 8260B	Methylene Chloride	12.6J	ug/kg	20.0	10/30/18 21:36	CO

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-04A Lab ID: 10452955004 Collected: 10/23/18 12:10 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	6.1	%	0.10	0.10	1		10/25/18 09:44		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	20.5 U	ug/kg	20.5	9.3	1	10/26/18 12:28	10/26/18 17:42	67-64-1	
Allyl chloride	10.2 U	ug/kg	10.2	0.98	1	10/26/18 12:28	10/26/18 17:42	107-05-1	
Benzene	4.1 U	ug/kg	4.1	0.34	1	10/26/18 12:28	10/26/18 17:42	71-43-2	
Bromobenzene	4.1 U	ug/kg	4.1	0.35	1	10/26/18 12:28	10/26/18 17:42	108-86-1	
Bromochloromethane	4.1 U	ug/kg	4.1	0.84	1	10/26/18 12:28	10/26/18 17:42	74-97-5	
Bromodichloromethane	4.1 U	ug/kg	4.1	0.35	1	10/26/18 12:28	10/26/18 17:42	75-27-4	
Bromoform	20.5 U	ug/kg	20.5	0.36	1	10/26/18 12:28	10/26/18 17:42	75-25-2	
Bromomethane	20.5 U	ug/kg	20.5	0.29	1	10/26/18 12:28	10/26/18 17:42	74-83-9	
2-Butanone (MEK)	20.5 U	ug/kg	20.5	2.2	1	10/26/18 12:28	10/26/18 17:42	78-93-3	
n-Butylbenzene	4.1 U	ug/kg	4.1	0.29	1	10/26/18 12:28	10/26/18 17:42	104-51-8	
sec-Butylbenzene	4.1 U	ug/kg	4.1	0.32	1	10/26/18 12:28	10/26/18 17:42	135-98-8	
tert-Butylbenzene	4.1 U	ug/kg	4.1	0.36	1	10/26/18 12:28	10/26/18 17:42	98-06-6	
Carbon tetrachloride	4.1 U	ug/kg	4.1	0.33	1	10/26/18 12:28	10/26/18 17:42	56-23-5	
Chlorobenzene	4.1 U	ug/kg	4.1	0.40	1	10/26/18 12:28	10/26/18 17:42	108-90-7	
Chloroethane	10.2 U	ug/kg	10.2	0.29	1	10/26/18 12:28	10/26/18 17:42	75-00-3	
Chloroform	4.1 U	ug/kg	4.1	0.91	1	10/26/18 12:28	10/26/18 17:42	67-66-3	
Chloromethane	10.2 U	ug/kg	10.2	0.51	1	10/26/18 12:28	10/26/18 17:42	74-87-3	
2-Chlorotoluene	4.1 U	ug/kg	4.1	0.42	1	10/26/18 12:28	10/26/18 17:42	95-49-8	
4-Chlorotoluene	4.1 U	ug/kg	4.1	0.42	1	10/26/18 12:28	10/26/18 17:42	106-43-4	
1,2-Dibromo-3-chloropropane	10.2 U	ug/kg	10.2	1.2	1	10/26/18 12:28	10/26/18 17:42	96-12-8	
Dibromochloromethane	4.1 U	ug/kg	4.1	0.27	1	10/26/18 12:28	10/26/18 17:42	124-48-1	
1,2-Dibromoethane (EDB)	4.1 U	ug/kg	4.1	0.23	1	10/26/18 12:28	10/26/18 17:42	106-93-4	
Dibromomethane	4.1 U	ug/kg	4.1	0.32	1	10/26/18 12:28	10/26/18 17:42	74-95-3	
1,2-Dichlorobenzene	4.1 U	ug/kg	4.1	0.42	1	10/26/18 12:28	10/26/18 17:42	95-50-1	
1,3-Dichlorobenzene	4.1 U	ug/kg	4.1	0.40	1	10/26/18 12:28	10/26/18 17:42	541-73-1	
1,4-Dichlorobenzene	4.1 U	ug/kg	4.1	0.42	1	10/26/18 12:28	10/26/18 17:42	106-46-7	
Dichlorodifluoromethane	10.2 U	ug/kg	10.2	0.45	1	10/26/18 12:28	10/26/18 17:42	75-71-8	
1,1-Dichloroethane	4.1 U	ug/kg	4.1	0.44	1	10/26/18 12:28	10/26/18 17:42	75-34-3	
1,2-Dichloroethane	4.1 U	ug/kg	4.1	0.26	1	10/26/18 12:28	10/26/18 17:42	107-06-2	
1,1-Dichloroethene	4.1 U	ug/kg	4.1	0.33	1	10/26/18 12:28	10/26/18 17:42	75-35-4	
cis-1,2-Dichloroethene	4.1 U	ug/kg	4.1	0.47	1	10/26/18 12:28	10/26/18 17:42	156-59-2	
trans-1,2-Dichloroethene	4.1 U	ug/kg	4.1	0.44	1	10/26/18 12:28	10/26/18 17:42	156-60-5	
Dichlorofluoromethane	4.1 U	ug/kg	4.1	0.33	1	10/26/18 12:28	10/26/18 17:42	75-43-4	N2
1,2-Dichloropropane	4.1 U	ug/kg	4.1	0.25	1	10/26/18 12:28	10/26/18 17:42	78-87-5	
1,3-Dichloropropane	4.1 U	ug/kg	4.1	0.38	1	10/26/18 12:28	10/26/18 17:42	142-28-9	
2,2-Dichloropropane	10.2 U	ug/kg	10.2	0.36	1	10/26/18 12:28	10/26/18 17:42	594-20-7	
1,1-Dichloropropene	4.1 U	ug/kg	4.1	0.37	1	10/26/18 12:28	10/26/18 17:42	563-58-6	
cis-1,3-Dichloropropene	4.1 U	ug/kg	4.1	0.30	1	10/26/18 12:28	10/26/18 17:42	10061-01-5	
trans-1,3-Dichloropropene	4.1 U	ug/kg	4.1	0.30	1	10/26/18 12:28	10/26/18 17:42	10061-02-6	
Diethyl ether (Ethyl ether)	10.2 U	ug/kg	10.2	0.58	1	10/26/18 12:28	10/26/18 17:42	60-29-7	
Ethylbenzene	4.1 U	ug/kg	4.1	0.31	1	10/26/18 12:28	10/26/18 17:42	100-41-4	
Hexachloro-1,3-butadiene	10.2 U	ug/kg	10.2	0.36	1	10/26/18 12:28	10/26/18 17:42	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-04A**      **Lab ID: 10452955004**      Collected: 10/23/18 12:10      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.1 U</b>	ug/kg	4.1	0.31	1	10/26/18 12:28	10/26/18 17:42	98-82-8	
p-Isopropyltoluene	<b>4.1 U</b>	ug/kg	4.1	0.36	1	10/26/18 12:28	10/26/18 17:42	99-87-6	
Methylene Chloride	<b>15.4J</b>	ug/kg	20.5	3.8	1	10/26/18 12:28	10/26/18 17:42	75-09-2	C0
4-Methyl-2-pentanone (MIBK)	<b>20.5 U</b>	ug/kg	20.5	1.4	1	10/26/18 12:28	10/26/18 17:42	108-10-1	
Methyl-tert-butyl ether	<b>4.1 U</b>	ug/kg	4.1	0.31	1	10/26/18 12:28	10/26/18 17:42	1634-04-4	
Naphthalene	<b>10.2 U</b>	ug/kg	10.2	0.38	1	10/26/18 12:28	10/26/18 17:42	91-20-3	
n-Propylbenzene	<b>4.1 U</b>	ug/kg	4.1	0.35	1	10/26/18 12:28	10/26/18 17:42	103-65-1	
Styrene	<b>4.1 U</b>	ug/kg	4.1	0.30	1	10/26/18 12:28	10/26/18 17:42	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.1 U</b>	ug/kg	4.1	0.28	1	10/26/18 12:28	10/26/18 17:42	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.1 U</b>	ug/kg	4.1	0.26	1	10/26/18 12:28	10/26/18 17:42	79-34-5	
Tetrachloroethene	<b>2.3J</b>	ug/kg	4.1	0.31	1	10/26/18 12:28	10/26/18 17:42	127-18-4	
Tetrahydrofuran	<b>41.0 U</b>	ug/kg	41.0	4.1	1	10/26/18 12:28	10/26/18 17:42	109-99-9	
Toluene	<b>4.1 U</b>	ug/kg	4.1	0.95	1	10/26/18 12:28	10/26/18 17:42	108-88-3	
1,2,3-Trichlorobenzene	<b>4.1 U</b>	ug/kg	4.1	0.30	1	10/26/18 12:28	10/26/18 17:42	87-61-6	
1,2,4-Trichlorobenzene	<b>4.1 U</b>	ug/kg	4.1	0.37	1	10/26/18 12:28	10/26/18 17:42	120-82-1	
1,1,1-Trichloroethane	<b>4.1 U</b>	ug/kg	4.1	0.38	1	10/26/18 12:28	10/26/18 17:42	71-55-6	
1,1,2-Trichloroethane	<b>4.1 U</b>	ug/kg	4.1	0.49	1	10/26/18 12:28	10/26/18 17:42	79-00-5	
Trichloroethene	<b>4.1 U</b>	ug/kg	4.1	0.36	1	10/26/18 12:28	10/26/18 17:42	79-01-6	
Trichlorofluoromethane	<b>10.2 U</b>	ug/kg	10.2	0.46	1	10/26/18 12:28	10/26/18 17:42	75-69-4	
1,2,3-Trichloropropane	<b>4.1 U</b>	ug/kg	4.1	0.80	1	10/26/18 12:28	10/26/18 17:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.1 U</b>	ug/kg	4.1	1.0	1	10/26/18 12:28	10/26/18 17:42	76-13-1	
1,2,4-Trimethylbenzene	<b>4.1 U</b>	ug/kg	4.1	0.43	1	10/26/18 12:28	10/26/18 17:42	95-63-6	
1,3,5-Trimethylbenzene	<b>4.1 U</b>	ug/kg	4.1	0.39	1	10/26/18 12:28	10/26/18 17:42	108-67-8	
Vinyl chloride	<b>4.1 U</b>	ug/kg	4.1	0.30	1	10/26/18 12:28	10/26/18 17:42	75-01-4	
Xylene (Total)	<b>12.3 U</b>	ug/kg	12.3	0.65	1	10/26/18 12:28	10/26/18 17:42	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	114	%	75-126		1	10/26/18 12:28	10/26/18 17:42	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	10/26/18 12:28	10/26/18 17:42	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-128		1	10/26/18 12:28	10/26/18 17:42	460-00-4	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-05A Lab ID: 10452955005 Collected: 10/23/18 12:25 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	6.7	%	0.10	0.10	1		10/25/18 09:53		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	21.4 U	ug/kg	21.4	9.7	1	10/30/18 15:35	10/30/18 23:11	67-64-1	
Allyl chloride	10.7 U	ug/kg	10.7	1.0	1	10/30/18 15:35	10/30/18 23:11	107-05-1	
Benzene	4.3 U	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 23:11	71-43-2	
Bromobenzene	4.3 U	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 23:11	108-86-1	
Bromochloromethane	4.3 U	ug/kg	4.3	0.88	1	10/30/18 15:35	10/30/18 23:11	74-97-5	
Bromodichloromethane	4.3 U	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 23:11	75-27-4	
Bromoform	21.4 U	ug/kg	21.4	0.38	1	10/30/18 15:35	10/30/18 23:11	75-25-2	
Bromomethane	21.4 U	ug/kg	21.4	0.30	1	10/30/18 15:35	10/30/18 23:11	74-83-9	
2-Butanone (MEK)	21.4 U	ug/kg	21.4	2.3	1	10/30/18 15:35	10/30/18 23:11	78-93-3	
n-Butylbenzene	4.3 U	ug/kg	4.3	0.30	1	10/30/18 15:35	10/30/18 23:11	104-51-8	
sec-Butylbenzene	4.3 U	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 23:11	135-98-8	
tert-Butylbenzene	4.3 U	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 23:11	98-06-6	
Carbon tetrachloride	4.3 U	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 23:11	56-23-5	
Chlorobenzene	4.3 U	ug/kg	4.3	0.41	1	10/30/18 15:35	10/30/18 23:11	108-90-7	
Chloroethane	10.7 U	ug/kg	10.7	0.31	1	10/30/18 15:35	10/30/18 23:11	75-00-3	
Chloroform	4.3 U	ug/kg	4.3	0.95	1	10/30/18 15:35	10/30/18 23:11	67-66-3	
Chloromethane	10.7 U	ug/kg	10.7	0.53	1	10/30/18 15:35	10/30/18 23:11	74-87-3	
2-Chlorotoluene	4.3 U	ug/kg	4.3	0.43	1	10/30/18 15:35	10/30/18 23:11	95-49-8	
4-Chlorotoluene	4.3 U	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 23:11	106-43-4	
1,2-Dibromo-3-chloropropane	10.7 U	ug/kg	10.7	1.2	1	10/30/18 15:35	10/30/18 23:11	96-12-8	
Dibromochloromethane	4.3 U	ug/kg	4.3	0.28	1	10/30/18 15:35	10/30/18 23:11	124-48-1	
1,2-Dibromoethane (EDB)	4.3 U	ug/kg	4.3	0.24	1	10/30/18 15:35	10/30/18 23:11	106-93-4	
Dibromomethane	4.3 U	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 23:11	74-95-3	
1,2-Dichlorobenzene	4.3 U	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 23:11	95-50-1	
1,3-Dichlorobenzene	4.3 U	ug/kg	4.3	0.42	1	10/30/18 15:35	10/30/18 23:11	541-73-1	
1,4-Dichlorobenzene	4.3 U	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 23:11	106-46-7	
Dichlorodifluoromethane	10.7 U	ug/kg	10.7	0.48	1	10/30/18 15:35	10/30/18 23:11	75-71-8	
1,1-Dichloroethane	4.3 U	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 23:11	75-34-3	
1,2-Dichloroethane	4.3 U	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 23:11	107-06-2	
1,1-Dichloroethene	4.3 U	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 23:11	75-35-4	
cis-1,2-Dichloroethene	4.3 U	ug/kg	4.3	0.49	1	10/30/18 15:35	10/30/18 23:11	156-59-2	
trans-1,2-Dichloroethene	4.3 U	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 23:11	156-60-5	
Dichlorofluoromethane	4.3 U	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 23:11	75-43-4	N2
1,2-Dichloropropane	4.3 U	ug/kg	4.3	0.26	1	10/30/18 15:35	10/30/18 23:11	78-87-5	
1,3-Dichloropropane	4.3 U	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 23:11	142-28-9	
2,2-Dichloropropane	10.7 U	ug/kg	10.7	0.38	1	10/30/18 15:35	10/30/18 23:11	594-20-7	
1,1-Dichloropropene	4.3 U	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 23:11	563-58-6	
cis-1,3-Dichloropropene	4.3 U	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 23:11	10061-01-5	
trans-1,3-Dichloropropene	4.3 U	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 23:11	10061-02-6	
Diethyl ether (Ethyl ether)	10.7 U	ug/kg	10.7	0.60	1	10/30/18 15:35	10/30/18 23:11	60-29-7	
Ethylbenzene	4.3 U	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 23:11	100-41-4	
Hexachloro-1,3-butadiene	10.7 U	ug/kg	10.7	0.38	1	10/30/18 15:35	10/30/18 23:11	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-05A**      **Lab ID: 10452955005**      Collected: 10/23/18 12:25      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 23:11	98-82-8	
p-Isopropyltoluene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 23:11	99-87-6	
Methylene Chloride	<b>13.6J</b>	ug/kg	21.4	3.9	1	10/30/18 15:35	10/30/18 23:11	75-09-2	C0
4-Methyl-2-pentanone (MIBK)	<b>21.4 U</b>	ug/kg	21.4	1.5	1	10/30/18 15:35	10/30/18 23:11	108-10-1	
Methyl-tert-butyl ether	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 23:11	1634-04-4	
Naphthalene	<b>10.7 U</b>	ug/kg	10.7	0.40	1	10/30/18 15:35	10/30/18 23:11	91-20-3	
n-Propylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 23:11	103-65-1	
Styrene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 23:11	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.30	1	10/30/18 15:35	10/30/18 23:11	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 23:11	79-34-5	
Tetrachloroethene	<b>2.8J</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 23:11	127-18-4	
Tetrahydrofuran	<b>42.9 U</b>	ug/kg	42.9	4.3	1	10/30/18 15:35	10/30/18 23:11	109-99-9	
Toluene	<b>4.3 U</b>	ug/kg	4.3	1.0	1	10/30/18 15:35	10/30/18 23:11	108-88-3	
1,2,3-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 23:11	87-61-6	
1,2,4-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 23:11	120-82-1	
1,1,1-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	10/30/18 15:35	10/30/18 23:11	71-55-6	
1,1,2-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.51	1	10/30/18 15:35	10/30/18 23:11	79-00-5	
Trichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 23:11	79-01-6	
Trichlorofluoromethane	<b>10.7 U</b>	ug/kg	10.7	0.48	1	10/30/18 15:35	10/30/18 23:11	75-69-4	
1,2,3-Trichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.84	1	10/30/18 15:35	10/30/18 23:11	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.3 U</b>	ug/kg	4.3	1.1	1	10/30/18 15:35	10/30/18 23:11	76-13-1	
1,2,4-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	10/30/18 15:35	10/30/18 23:11	95-63-6	
1,3,5-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.41	1	10/30/18 15:35	10/30/18 23:11	108-67-8	
Vinyl chloride	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 23:11	75-01-4	
Xylene (Total)	<b>12.9 U</b>	ug/kg	12.9	0.68	1	10/30/18 15:35	10/30/18 23:11	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	78	%	75-126		1	10/30/18 15:35	10/30/18 23:11	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	10/30/18 15:35	10/30/18 23:11	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-128		1	10/30/18 15:35	10/30/18 23:11	460-00-4	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-06A Lab ID: 10452955006 Collected: 10/23/18 12:40 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>6.0</b>	%	0.10	0.10	1		10/25/18 09:56		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	<b>21.6 U</b>	ug/kg	21.6	9.8	1	10/30/18 15:35	10/30/18 22:52	67-64-1	
Allyl chloride	<b>10.8 U</b>	ug/kg	10.8	1.0	1	10/30/18 15:35	10/30/18 22:52	107-05-1	
Benzene	<b>4.3 U</b>	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 22:52	71-43-2	
Bromobenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:52	108-86-1	
Bromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.89	1	10/30/18 15:35	10/30/18 22:52	74-97-5	
Bromodichloromethane	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:52	75-27-4	
Bromoform	<b>21.6 U</b>	ug/kg	21.6	0.38	1	10/30/18 15:35	10/30/18 22:52	75-25-2	
Bromomethane	<b>21.6 U</b>	ug/kg	21.6	0.31	1	10/30/18 15:35	10/30/18 22:52	74-83-9	
2-Butanone (MEK)	<b>21.6 U</b>	ug/kg	21.6	2.4	1	10/30/18 15:35	10/30/18 22:52	78-93-3	
n-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:52	104-51-8	
sec-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 22:52	135-98-8	
tert-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	10/30/18 15:35	10/30/18 22:52	98-06-6	
Carbon tetrachloride	<b>4.3 U</b>	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 22:52	56-23-5	
Chlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	10/30/18 15:35	10/30/18 22:52	108-90-7	
Chloroethane	<b>10.8 U</b>	ug/kg	10.8	0.31	1	10/30/18 15:35	10/30/18 22:52	75-00-3	
Chloroform	<b>4.3 U</b>	ug/kg	4.3	0.96	1	10/30/18 15:35	10/30/18 22:52	67-66-3	
Chloromethane	<b>10.8 U</b>	ug/kg	10.8	0.53	1	10/30/18 15:35	10/30/18 22:52	74-87-3	
2-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 22:52	95-49-8	
4-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	10/30/18 15:35	10/30/18 22:52	106-43-4	
1,2-Dibromo-3-chloropropane	<b>10.8 U</b>	ug/kg	10.8	1.2	1	10/30/18 15:35	10/30/18 22:52	96-12-8	
Dibromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.29	1	10/30/18 15:35	10/30/18 22:52	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.3 U</b>	ug/kg	4.3	0.24	1	10/30/18 15:35	10/30/18 22:52	106-93-4	
Dibromomethane	<b>4.3 U</b>	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 22:52	74-95-3	
1,2-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 22:52	95-50-1	
1,3-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.43	1	10/30/18 15:35	10/30/18 22:52	541-73-1	
1,4-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	10/30/18 15:35	10/30/18 22:52	106-46-7	
Dichlorodifluoromethane	<b>10.8 U</b>	ug/kg	10.8	0.48	1	10/30/18 15:35	10/30/18 22:52	75-71-8	
1,1-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 22:52	75-34-3	
1,2-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 22:52	107-06-2	
1,1-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 22:52	75-35-4	
cis-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.50	1	10/30/18 15:35	10/30/18 22:52	156-59-2	
trans-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 22:52	156-60-5	
Dichlorofluoromethane	<b>4.3 U</b>	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 22:52	75-43-4	N2
1,2-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.26	1	10/30/18 15:35	10/30/18 22:52	78-87-5	
1,3-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	10/30/18 15:35	10/30/18 22:52	142-28-9	
2,2-Dichloropropane	<b>10.8 U</b>	ug/kg	10.8	0.39	1	10/30/18 15:35	10/30/18 22:52	594-20-7	
1,1-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.40	1	10/30/18 15:35	10/30/18 22:52	563-58-6	
cis-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:52	10061-01-5	
trans-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:52	10061-02-6	
Diethyl ether (Ethyl ether)	<b>10.8 U</b>	ug/kg	10.8	0.61	1	10/30/18 15:35	10/30/18 22:52	60-29-7	
Ethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 22:52	100-41-4	
Hexachloro-1,3-butadiene	<b>10.8 U</b>	ug/kg	10.8	0.38	1	10/30/18 15:35	10/30/18 22:52	87-68-3	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-06A**      **Lab ID: 10452955006**      Collected: 10/23/18 12:40      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B    Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 22:52	98-82-8	
p-Isopropyltoluene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	10/30/18 15:35	10/30/18 22:52	99-87-6	
Methylene Chloride	<b>17.8J</b>	ug/kg	21.6	4.0	1	10/30/18 15:35	10/30/18 22:52	75-09-2	C0
4-Methyl-2-pentanone (MIBK)	<b>21.6 U</b>	ug/kg	21.6	1.5	1	10/30/18 15:35	10/30/18 22:52	108-10-1	
Methyl-tert-butyl ether	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 22:52	1634-04-4	
Naphthalene	<b>10.8 U</b>	ug/kg	10.8	0.40	1	10/30/18 15:35	10/30/18 22:52	91-20-3	
n-Propylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:52	103-65-1	
Styrene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:52	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.30	1	10/30/18 15:35	10/30/18 22:52	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 22:52	79-34-5	
Tetrachloroethene	<b>0.99J</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 22:52	127-18-4	
Tetrahydrofuran	<b>43.3 U</b>	ug/kg	43.3	4.3	1	10/30/18 15:35	10/30/18 22:52	109-99-9	
Toluene	<b>4.3 U</b>	ug/kg	4.3	1.0	1	10/30/18 15:35	10/30/18 22:52	108-88-3	
1,2,3-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:52	87-61-6	
1,2,4-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 22:52	120-82-1	
1,1,1-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	10/30/18 15:35	10/30/18 22:52	71-55-6	
1,1,2-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.51	1	10/30/18 15:35	10/30/18 22:52	79-00-5	
Trichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	10/30/18 15:35	10/30/18 22:52	79-01-6	
Trichlorofluoromethane	<b>10.8 U</b>	ug/kg	10.8	0.48	1	10/30/18 15:35	10/30/18 22:52	75-69-4	
1,2,3-Trichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.84	1	10/30/18 15:35	10/30/18 22:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.3 U</b>	ug/kg	4.3	1.1	1	10/30/18 15:35	10/30/18 22:52	76-13-1	
1,2,4-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	10/30/18 15:35	10/30/18 22:52	95-63-6	
1,3,5-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	10/30/18 15:35	10/30/18 22:52	108-67-8	
Vinyl chloride	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:52	75-01-4	
Xylene (Total)	<b>13.0 U</b>	ug/kg	13.0	0.69	1	10/30/18 15:35	10/30/18 22:52	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-126		1	10/30/18 15:35	10/30/18 22:52	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	10/30/18 15:35	10/30/18 22:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-128		1	10/30/18 15:35	10/30/18 22:52	460-00-4	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07A**      **Lab ID: 10452955007**      Collected: 10/23/18 12:50      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	11.1	%	0.10	0.10	1		10/25/18 09:58		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	26.9J	ug/kg	29.4	13.4	1	10/30/18 15:35	10/30/18 22:14	67-64-1	
Allyl chloride	14.7 U	ug/kg	14.7	1.4	1	10/30/18 15:35	10/30/18 22:14	107-05-1	
Benzene	5.9 U	ug/kg	5.9	0.49	1	10/30/18 15:35	10/30/18 22:14	71-43-2	
Bromobenzene	5.9 U	ug/kg	5.9	0.50	1	10/30/18 15:35	10/30/18 22:14	108-86-1	
Bromochloromethane	5.9 U	ug/kg	5.9	1.2	1	10/30/18 15:35	10/30/18 22:14	74-97-5	
Bromodichloromethane	5.9 U	ug/kg	5.9	0.50	1	10/30/18 15:35	10/30/18 22:14	75-27-4	
Bromoform	29.4 U	ug/kg	29.4	0.52	1	10/30/18 15:35	10/30/18 22:14	75-25-2	
Bromomethane	29.4 U	ug/kg	29.4	0.42	1	10/30/18 15:35	10/30/18 22:14	74-83-9	
2-Butanone (MEK)	29.4 U	ug/kg	29.4	3.2	1	10/30/18 15:35	10/30/18 22:14	78-93-3	
n-Butylbenzene	5.9 U	ug/kg	5.9	0.41	1	10/30/18 15:35	10/30/18 22:14	104-51-8	
sec-Butylbenzene	5.9 U	ug/kg	5.9	0.46	1	10/30/18 15:35	10/30/18 22:14	135-98-8	
tert-Butylbenzene	5.9 U	ug/kg	5.9	0.51	1	10/30/18 15:35	10/30/18 22:14	98-06-6	
Carbon tetrachloride	5.9 U	ug/kg	5.9	0.48	1	10/30/18 15:35	10/30/18 22:14	56-23-5	
Chlorobenzene	5.9 U	ug/kg	5.9	0.57	1	10/30/18 15:35	10/30/18 22:14	108-90-7	
Chloroethane	14.7 U	ug/kg	14.7	0.42	1	10/30/18 15:35	10/30/18 22:14	75-00-3	
Chloroform	5.9 U	ug/kg	5.9	1.3	1	10/30/18 15:35	10/30/18 22:14	67-66-3	
Chloromethane	14.7 U	ug/kg	14.7	0.73	1	10/30/18 15:35	10/30/18 22:14	74-87-3	
2-Chlorotoluene	5.9 U	ug/kg	5.9	0.60	1	10/30/18 15:35	10/30/18 22:14	95-49-8	
4-Chlorotoluene	5.9 U	ug/kg	5.9	0.61	1	10/30/18 15:35	10/30/18 22:14	106-43-4	
1,2-Dibromo-3-chloropropane	14.7 U	ug/kg	14.7	1.7	1	10/30/18 15:35	10/30/18 22:14	96-12-8	
Dibromochloromethane	5.9 U	ug/kg	5.9	0.39	1	10/30/18 15:35	10/30/18 22:14	124-48-1	
1,2-Dibromoethane (EDB)	5.9 U	ug/kg	5.9	0.33	1	10/30/18 15:35	10/30/18 22:14	106-93-4	
Dibromomethane	5.9 U	ug/kg	5.9	0.46	1	10/30/18 15:35	10/30/18 22:14	74-95-3	
1,2-Dichlorobenzene	5.9 U	ug/kg	5.9	0.60	1	10/30/18 15:35	10/30/18 22:14	95-50-1	
1,3-Dichlorobenzene	5.9 U	ug/kg	5.9	0.58	1	10/30/18 15:35	10/30/18 22:14	541-73-1	
1,4-Dichlorobenzene	5.9 U	ug/kg	5.9	0.61	1	10/30/18 15:35	10/30/18 22:14	106-46-7	
Dichlorodifluoromethane	14.7 U	ug/kg	14.7	0.65	1	10/30/18 15:35	10/30/18 22:14	75-71-8	
1,1-Dichloroethane	5.9 U	ug/kg	5.9	0.63	1	10/30/18 15:35	10/30/18 22:14	75-34-3	
1,2-Dichloroethane	5.9 U	ug/kg	5.9	0.37	1	10/30/18 15:35	10/30/18 22:14	107-06-2	
1,1-Dichloroethene	5.9 U	ug/kg	5.9	0.47	1	10/30/18 15:35	10/30/18 22:14	75-35-4	
cis-1,2-Dichloroethene	5.9 U	ug/kg	5.9	0.68	1	10/30/18 15:35	10/30/18 22:14	156-59-2	
trans-1,2-Dichloroethene	5.9 U	ug/kg	5.9	0.63	1	10/30/18 15:35	10/30/18 22:14	156-60-5	
Dichlorofluoromethane	5.9 U	ug/kg	5.9	0.48	1	10/30/18 15:35	10/30/18 22:14	75-43-4	N2
1,2-Dichloropropane	5.9 U	ug/kg	5.9	0.36	1	10/30/18 15:35	10/30/18 22:14	78-87-5	
1,3-Dichloropropane	5.9 U	ug/kg	5.9	0.54	1	10/30/18 15:35	10/30/18 22:14	142-28-9	
2,2-Dichloropropane	14.7 U	ug/kg	14.7	0.52	1	10/30/18 15:35	10/30/18 22:14	594-20-7	
1,1-Dichloropropene	5.9 U	ug/kg	5.9	0.54	1	10/30/18 15:35	10/30/18 22:14	563-58-6	
cis-1,3-Dichloropropene	5.9 U	ug/kg	5.9	0.43	1	10/30/18 15:35	10/30/18 22:14	10061-01-5	
trans-1,3-Dichloropropene	5.9 U	ug/kg	5.9	0.43	1	10/30/18 15:35	10/30/18 22:14	10061-02-6	
Diethyl ether (Ethyl ether)	14.7 U	ug/kg	14.7	0.83	1	10/30/18 15:35	10/30/18 22:14	60-29-7	
Ethylbenzene	5.9 U	ug/kg	5.9	0.44	1	10/30/18 15:35	10/30/18 22:14	100-41-4	
Hexachloro-1,3-butadiene	14.7 U	ug/kg	14.7	0.52	1	10/30/18 15:35	10/30/18 22:14	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07A**      **Lab ID: 10452955007**      Collected: 10/23/18 12:50      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>5.9 U</b>	ug/kg	5.9	0.45	1	10/30/18 15:35	10/30/18 22:14	98-82-8	
p-Isopropyltoluene	<b>5.9 U</b>	ug/kg	5.9	0.51	1	10/30/18 15:35	10/30/18 22:14	99-87-6	
Methylene Chloride	<b>18.9J</b>	ug/kg	29.4	5.4	1	10/30/18 15:35	10/30/18 22:14	75-09-2	C0
4-Methyl-2-pentanone (MIBK)	<b>29.4 U</b>	ug/kg	29.4	2.0	1	10/30/18 15:35	10/30/18 22:14	108-10-1	
Methyl-tert-butyl ether	<b>5.9 U</b>	ug/kg	5.9	0.45	1	10/30/18 15:35	10/30/18 22:14	1634-04-4	
Naphthalene	<b>0.57J</b>	ug/kg	14.7	0.55	1	10/30/18 15:35	10/30/18 22:14	91-20-3	
n-Propylbenzene	<b>5.9 U</b>	ug/kg	5.9	0.50	1	10/30/18 15:35	10/30/18 22:14	103-65-1	
Styrene	<b>5.9 U</b>	ug/kg	5.9	0.43	1	10/30/18 15:35	10/30/18 22:14	100-42-5	
1,1,1,2-Tetrachloroethane	<b>5.9 U</b>	ug/kg	5.9	0.41	1	10/30/18 15:35	10/30/18 22:14	630-20-6	
1,1,2,2-Tetrachloroethane	<b>5.9 U</b>	ug/kg	5.9	0.37	1	10/30/18 15:35	10/30/18 22:14	79-34-5	
Tetrachloroethene	<b>29.5</b>	ug/kg	5.9	0.44	1	10/30/18 15:35	10/30/18 22:14	127-18-4	
Tetrahydrofuran	<b>58.7 U</b>	ug/kg	58.7	5.9	1	10/30/18 15:35	10/30/18 22:14	109-99-9	
Toluene	<b>5.9 U</b>	ug/kg	5.9	1.4	1	10/30/18 15:35	10/30/18 22:14	108-88-3	
1,2,3-Trichlorobenzene	<b>5.9 U</b>	ug/kg	5.9	0.42	1	10/30/18 15:35	10/30/18 22:14	87-61-6	
1,2,4-Trichlorobenzene	<b>5.9 U</b>	ug/kg	5.9	0.54	1	10/30/18 15:35	10/30/18 22:14	120-82-1	
1,1,1-Trichloroethane	<b>5.9 U</b>	ug/kg	5.9	0.54	1	10/30/18 15:35	10/30/18 22:14	71-55-6	
1,1,2-Trichloroethane	<b>5.9 U</b>	ug/kg	5.9	0.70	1	10/30/18 15:35	10/30/18 22:14	79-00-5	
Trichloroethene	<b>5.9 U</b>	ug/kg	5.9	0.51	1	10/30/18 15:35	10/30/18 22:14	79-01-6	
Trichlorofluoromethane	<b>14.7 U</b>	ug/kg	14.7	0.66	1	10/30/18 15:35	10/30/18 22:14	75-69-4	
1,2,3-Trichloropropane	<b>5.9 U</b>	ug/kg	5.9	1.1	1	10/30/18 15:35	10/30/18 22:14	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>5.9 U</b>	ug/kg	5.9	1.5	1	10/30/18 15:35	10/30/18 22:14	76-13-1	
1,2,4-Trimethylbenzene	<b>1.8J</b>	ug/kg	5.9	0.62	1	10/30/18 15:35	10/30/18 22:14	95-63-6	
1,3,5-Trimethylbenzene	<b>1.2J</b>	ug/kg	5.9	0.57	1	10/30/18 15:35	10/30/18 22:14	108-67-8	
Vinyl chloride	<b>5.9 U</b>	ug/kg	5.9	0.43	1	10/30/18 15:35	10/30/18 22:14	75-01-4	
Xylene (Total)	<b>17.6 U</b>	ug/kg	17.6	0.93	1	10/30/18 15:35	10/30/18 22:14	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-126		1	10/30/18 15:35	10/30/18 22:14	17060-07-0	
Toluene-d8 (S)	106	%	75-125		1	10/30/18 15:35	10/30/18 22:14	2037-26-5	
4-Bromofluorobenzene (S)	121	%	75-128		1	10/30/18 15:35	10/30/18 22:14	460-00-4	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-08A**      **Lab ID: 10452955008**      Collected: 10/23/18 13:05      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>10.6</b>	%	0.10	0.10	1		10/25/18 10:00		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>22.9 U</b>	ug/kg	22.9	10.4	1	10/26/18 12:28	10/26/18 16:26	67-64-1	
Allyl chloride	<b>11.4 U</b>	ug/kg	11.4	1.1	1	10/26/18 12:28	10/26/18 16:26	107-05-1	
Benzene	<b>4.6 U</b>	ug/kg	4.6	0.38	1	10/26/18 12:28	10/26/18 16:26	71-43-2	
Bromobenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	10/26/18 12:28	10/26/18 16:26	108-86-1	
Bromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.94	1	10/26/18 12:28	10/26/18 16:26	74-97-5	
Bromodichloromethane	<b>4.6 U</b>	ug/kg	4.6	0.39	1	10/26/18 12:28	10/26/18 16:26	75-27-4	
Bromoform	<b>22.9 U</b>	ug/kg	22.9	0.40	1	10/26/18 12:28	10/26/18 16:26	75-25-2	
Bromomethane	<b>22.9 U</b>	ug/kg	22.9	0.32	1	10/26/18 12:28	10/26/18 16:26	74-83-9	
2-Butanone (MEK)	<b>22.9 U</b>	ug/kg	22.9	2.5	1	10/26/18 12:28	10/26/18 16:26	78-93-3	
n-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.32	1	10/26/18 12:28	10/26/18 16:26	104-51-8	
sec-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.36	1	10/26/18 12:28	10/26/18 16:26	135-98-8	
tert-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	10/26/18 12:28	10/26/18 16:26	98-06-6	
Carbon tetrachloride	<b>4.6 U</b>	ug/kg	4.6	0.37	1	10/26/18 12:28	10/26/18 16:26	56-23-5	
Chlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	10/26/18 12:28	10/26/18 16:26	108-90-7	
Chloroethane	<b>11.4 U</b>	ug/kg	11.4	0.33	1	10/26/18 12:28	10/26/18 16:26	75-00-3	
Chloroform	<b>4.6 U</b>	ug/kg	4.6	1.0	1	10/26/18 12:28	10/26/18 16:26	67-66-3	
Chloromethane	<b>11.4 U</b>	ug/kg	11.4	0.57	1	10/26/18 12:28	10/26/18 16:26	74-87-3	
2-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.46	1	10/26/18 12:28	10/26/18 16:26	95-49-8	
4-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	10/26/18 12:28	10/26/18 16:26	106-43-4	
1,2-Dibromo-3-chloropropane	<b>11.4 U</b>	ug/kg	11.4	1.3	1	10/26/18 12:28	10/26/18 16:26	96-12-8	
Dibromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.30	1	10/26/18 12:28	10/26/18 16:26	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.6 U</b>	ug/kg	4.6	0.26	1	10/26/18 12:28	10/26/18 16:26	106-93-4	
Dibromomethane	<b>4.6 U</b>	ug/kg	4.6	0.35	1	10/26/18 12:28	10/26/18 16:26	74-95-3	
1,2-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	10/26/18 12:28	10/26/18 16:26	95-50-1	
1,3-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.45	1	10/26/18 12:28	10/26/18 16:26	541-73-1	
1,4-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	10/26/18 12:28	10/26/18 16:26	106-46-7	
Dichlorodifluoromethane	<b>11.4 U</b>	ug/kg	11.4	0.51	1	10/26/18 12:28	10/26/18 16:26	75-71-8	
1,1-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.49	1	10/26/18 12:28	10/26/18 16:26	75-34-3	
1,2-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	10/26/18 12:28	10/26/18 16:26	107-06-2	
1,1-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.37	1	10/26/18 12:28	10/26/18 16:26	75-35-4	
cis-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.53	1	10/26/18 12:28	10/26/18 16:26	156-59-2	
trans-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.49	1	10/26/18 12:28	10/26/18 16:26	156-60-5	
Dichlorofluoromethane	<b>4.6 U</b>	ug/kg	4.6	0.37	1	10/26/18 12:28	10/26/18 16:26	75-43-4	N2
1,2-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.28	1	10/26/18 12:28	10/26/18 16:26	78-87-5	
1,3-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.42	1	10/26/18 12:28	10/26/18 16:26	142-28-9	
2,2-Dichloropropane	<b>11.4 U</b>	ug/kg	11.4	0.41	1	10/26/18 12:28	10/26/18 16:26	594-20-7	
1,1-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	10/26/18 12:28	10/26/18 16:26	563-58-6	
cis-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	10/26/18 12:28	10/26/18 16:26	10061-01-5	
trans-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	10/26/18 12:28	10/26/18 16:26	10061-02-6	
Diethyl ether (Ethyl ether)	<b>11.4 U</b>	ug/kg	11.4	0.64	1	10/26/18 12:28	10/26/18 16:26	60-29-7	
Ethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.35	1	10/26/18 12:28	10/26/18 16:26	100-41-4	
Hexachloro-1,3-butadiene	<b>11.4 U</b>	ug/kg	11.4	0.40	1	10/26/18 12:28	10/26/18 16:26	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-08A**      **Lab ID: 10452955008**      Collected: 10/23/18 13:05      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.6 U</b>	ug/kg	4.6	0.35	1	10/26/18 12:28	10/26/18 16:26	98-82-8	
p-Isopropyltoluene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	10/26/18 12:28	10/26/18 16:26	99-87-6	
Methylene Chloride	<b>22.9 U</b>	ug/kg	22.9	4.2	1	10/26/18 12:28	10/26/18 16:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>22.9 U</b>	ug/kg	22.9	1.6	1	10/26/18 12:28	10/26/18 16:26	108-10-1	
Methyl-tert-butyl ether	<b>4.6 U</b>	ug/kg	4.6	0.35	1	10/26/18 12:28	10/26/18 16:26	1634-04-4	
Naphthalene	<b>11.4 U</b>	ug/kg	11.4	0.43	1	10/26/18 12:28	10/26/18 16:26	91-20-3	
n-Propylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	10/26/18 12:28	10/26/18 16:26	103-65-1	
Styrene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	10/26/18 12:28	10/26/18 16:26	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.32	1	10/26/18 12:28	10/26/18 16:26	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	10/26/18 12:28	10/26/18 16:26	79-34-5	
Tetrachloroethene	<b>21.4</b>	ug/kg	4.6	0.35	1	10/26/18 12:28	10/26/18 16:26	127-18-4	C0,IS
Tetrahydrofuran	<b>45.8 U</b>	ug/kg	45.8	4.6	1	10/26/18 12:28	10/26/18 16:26	109-99-9	
Toluene	<b>4.6 U</b>	ug/kg	4.6	1.1	1	10/26/18 12:28	10/26/18 16:26	108-88-3	
1,2,3-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	10/26/18 12:28	10/26/18 16:26	87-61-6	
1,2,4-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	10/26/18 12:28	10/26/18 16:26	120-82-1	
1,1,1-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.42	1	10/26/18 12:28	10/26/18 16:26	71-55-6	
1,1,2-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.54	1	10/26/18 12:28	10/26/18 16:26	79-00-5	
Trichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	10/26/18 12:28	10/26/18 16:26	79-01-6	
Trichlorofluoromethane	<b>11.4 U</b>	ug/kg	11.4	0.51	1	10/26/18 12:28	10/26/18 16:26	75-69-4	
1,2,3-Trichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.89	1	10/26/18 12:28	10/26/18 16:26	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.6 U</b>	ug/kg	4.6	1.1	1	10/26/18 12:28	10/26/18 16:26	76-13-1	
1,2,4-Trimethylbenzene	<b>1.7J</b>	ug/kg	4.6	0.48	1	10/26/18 12:28	10/26/18 16:26	95-63-6	C0,IS
1,3,5-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	10/26/18 12:28	10/26/18 16:26	108-67-8	
Vinyl chloride	<b>4.6 U</b>	ug/kg	4.6	0.34	1	10/26/18 12:28	10/26/18 16:26	75-01-4	
Xylene (Total)	<b>13.7 U</b>	ug/kg	13.7	0.73	1	10/26/18 12:28	10/26/18 16:26	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	113	%	75-126		1	10/26/18 12:28	10/26/18 16:26	17060-07-0	
Toluene-d8 (S)	95	%	75-125		1	10/26/18 12:28	10/26/18 16:26	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-128		1	10/26/18 12:28	10/26/18 16:26	460-00-4	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-09A Lab ID: 10452955009 Collected: 10/23/18 13:20 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>8.3</b>	%	0.10	0.10	1		10/25/18 10:02		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	<b>21.3 U</b>	ug/kg	21.3	9.7	1	10/30/18 15:35	10/30/18 22:33	67-64-1	
Allyl chloride	<b>10.7 U</b>	ug/kg	10.7	1.0	1	10/30/18 15:35	10/30/18 22:33	107-05-1	
Benzene	<b>4.3 U</b>	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 22:33	71-43-2	
Bromobenzene	<b>4.3 U</b>	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 22:33	108-86-1	
Bromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.87	1	10/30/18 15:35	10/30/18 22:33	74-97-5	
Bromodichloromethane	<b>4.3 U</b>	ug/kg	4.3	0.36	1	10/30/18 15:35	10/30/18 22:33	75-27-4	
Bromoform	<b>21.3 U</b>	ug/kg	21.3	0.38	1	10/30/18 15:35	10/30/18 22:33	75-25-2	
Bromomethane	<b>21.3 U</b>	ug/kg	21.3	0.30	1	10/30/18 15:35	10/30/18 22:33	74-83-9	
2-Butanone (MEK)	<b>21.3 U</b>	ug/kg	21.3	2.3	1	10/30/18 15:35	10/30/18 22:33	78-93-3	
n-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.30	1	10/30/18 15:35	10/30/18 22:33	104-51-8	
sec-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 22:33	135-98-8	
tert-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:33	98-06-6	
Carbon tetrachloride	<b>4.3 U</b>	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 22:33	56-23-5	
Chlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.41	1	10/30/18 15:35	10/30/18 22:33	108-90-7	
Chloroethane	<b>10.7 U</b>	ug/kg	10.7	0.31	1	10/30/18 15:35	10/30/18 22:33	75-00-3	
Chloroform	<b>4.3 U</b>	ug/kg	4.3	0.94	1	10/30/18 15:35	10/30/18 22:33	67-66-3	
Chloromethane	<b>10.7 U</b>	ug/kg	10.7	0.53	1	10/30/18 15:35	10/30/18 22:33	74-87-3	
2-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.43	1	10/30/18 15:35	10/30/18 22:33	95-49-8	
4-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 22:33	106-43-4	
1,2-Dibromo-3-chloropropane	<b>10.7 U</b>	ug/kg	10.7	1.2	1	10/30/18 15:35	10/30/18 22:33	96-12-8	
Dibromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.28	1	10/30/18 15:35	10/30/18 22:33	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.3 U</b>	ug/kg	4.3	0.24	1	10/30/18 15:35	10/30/18 22:33	106-93-4	
Dibromomethane	<b>4.3 U</b>	ug/kg	4.3	0.33	1	10/30/18 15:35	10/30/18 22:33	74-95-3	
1,2-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 22:33	95-50-1	
1,3-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	10/30/18 15:35	10/30/18 22:33	541-73-1	
1,4-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	10/30/18 15:35	10/30/18 22:33	106-46-7	
Dichlorodifluoromethane	<b>10.7 U</b>	ug/kg	10.7	0.47	1	10/30/18 15:35	10/30/18 22:33	75-71-8	
1,1-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 22:33	75-34-3	
1,2-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 22:33	107-06-2	
1,1-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.34	1	10/30/18 15:35	10/30/18 22:33	75-35-4	
cis-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.49	1	10/30/18 15:35	10/30/18 22:33	156-59-2	
trans-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.46	1	10/30/18 15:35	10/30/18 22:33	156-60-5	
Dichlorofluoromethane	<b>4.3 U</b>	ug/kg	4.3	0.35	1	10/30/18 15:35	10/30/18 22:33	75-43-4	N2
1,2-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.26	1	10/30/18 15:35	10/30/18 22:33	78-87-5	
1,3-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 22:33	142-28-9	
2,2-Dichloropropane	<b>10.7 U</b>	ug/kg	10.7	0.38	1	10/30/18 15:35	10/30/18 22:33	594-20-7	
1,1-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 22:33	563-58-6	
cis-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:33	10061-01-5	
trans-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:33	10061-02-6	
Diethyl ether (Ethyl ether)	<b>10.7 U</b>	ug/kg	10.7	0.60	1	10/30/18 15:35	10/30/18 22:33	60-29-7	
Ethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:33	100-41-4	
Hexachloro-1,3-butadiene	<b>10.7 U</b>	ug/kg	10.7	0.38	1	10/30/18 15:35	10/30/18 22:33	87-68-3	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-09A**      **Lab ID: 10452955009**      Collected: 10/23/18 13:20      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:33	98-82-8	
p-Isopropyltoluene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:33	99-87-6	
Methylene Chloride	<b>24.2</b>	ug/kg	21.3	3.9	1	10/30/18 15:35	10/30/18 22:33	75-09-2	C0
4-Methyl-2-pentanone (MIBK)	<b>21.3 U</b>	ug/kg	21.3	1.5	1	10/30/18 15:35	10/30/18 22:33	108-10-1	
Methyl-tert-butyl ether	<b>4.3 U</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:33	1634-04-4	
Naphthalene	<b>10.7 U</b>	ug/kg	10.7	0.40	1	10/30/18 15:35	10/30/18 22:33	91-20-3	
n-Propylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:33	103-65-1	
Styrene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:33	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.30	1	10/30/18 15:35	10/30/18 22:33	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	10/30/18 15:35	10/30/18 22:33	79-34-5	
Tetrachloroethene	<b>18.1</b>	ug/kg	4.3	0.32	1	10/30/18 15:35	10/30/18 22:33	127-18-4	
Tetrahydrofuran	<b>42.7 U</b>	ug/kg	42.7	4.3	1	10/30/18 15:35	10/30/18 22:33	109-99-9	
Toluene	<b>4.3 U</b>	ug/kg	4.3	0.99	1	10/30/18 15:35	10/30/18 22:33	108-88-3	
1,2,3-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:33	87-61-6	
1,2,4-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	10/30/18 15:35	10/30/18 22:33	120-82-1	
1,1,1-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	10/30/18 15:35	10/30/18 22:33	71-55-6	
1,1,2-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.51	1	10/30/18 15:35	10/30/18 22:33	79-00-5	
Trichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	10/30/18 15:35	10/30/18 22:33	79-01-6	
Trichlorofluoromethane	<b>10.7 U</b>	ug/kg	10.7	0.48	1	10/30/18 15:35	10/30/18 22:33	75-69-4	
1,2,3-Trichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.83	1	10/30/18 15:35	10/30/18 22:33	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.3 U</b>	ug/kg	4.3	1.1	1	10/30/18 15:35	10/30/18 22:33	76-13-1	
1,2,4-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	10/30/18 15:35	10/30/18 22:33	95-63-6	
1,3,5-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.41	1	10/30/18 15:35	10/30/18 22:33	108-67-8	
Vinyl chloride	<b>4.3 U</b>	ug/kg	4.3	0.31	1	10/30/18 15:35	10/30/18 22:33	75-01-4	
Xylene (Total)	<b>12.8 U</b>	ug/kg	12.8	0.68	1	10/30/18 15:35	10/30/18 22:33	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-126		1	10/30/18 15:35	10/30/18 22:33	17060-07-0	
Toluene-d8 (S)	103	%	75-125		1	10/30/18 15:35	10/30/18 22:33	2037-26-5	
4-Bromofluorobenzene (S)	109	%	75-128		1	10/30/18 15:35	10/30/18 22:33	460-00-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-10A**      **Lab ID: 10452955010**      Collected: 10/23/18 13:35      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>10.7</b>	%	0.10	0.10	1		11/06/18 17:23		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>23.1 U</b>	ug/kg	23.1	10.5	1	11/02/18 11:39	11/02/18 17:32	67-64-1	
Allyl chloride	<b>11.5 U</b>	ug/kg	11.5	1.1	1	11/02/18 11:39	11/02/18 17:32	107-05-1	
Benzene	<b>4.6 U</b>	ug/kg	4.6	0.38	1	11/02/18 11:39	11/02/18 17:32	71-43-2	
Bromobenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 17:32	108-86-1	
Bromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.95	1	11/02/18 11:39	11/02/18 17:32	74-97-5	
Bromodichloromethane	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 17:32	75-27-4	
Bromoform	<b>23.1 U</b>	ug/kg	23.1	0.41	1	11/02/18 11:39	11/02/18 17:32	75-25-2	
Bromomethane	<b>23.1 U</b>	ug/kg	23.1	0.33	1	11/02/18 11:39	11/02/18 17:32	74-83-9	
2-Butanone (MEK)	<b>23.1 U</b>	ug/kg	23.1	2.5	1	11/02/18 11:39	11/02/18 17:32	78-93-3	
n-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 17:32	104-51-8	
sec-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.36	1	11/02/18 11:39	11/02/18 17:32	135-98-8	
tert-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 17:32	98-06-6	
Carbon tetrachloride	<b>4.6 U</b>	ug/kg	4.6	0.38	1	11/02/18 11:39	11/02/18 17:32	56-23-5	
Chlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 17:32	108-90-7	
Chloroethane	<b>11.5 U</b>	ug/kg	11.5	0.33	1	11/02/18 11:39	11/02/18 17:32	75-00-3	
Chloroform	<b>4.6 U</b>	ug/kg	4.6	1.0	1	11/02/18 11:39	11/02/18 17:32	67-66-3	
Chloromethane	<b>11.5 U</b>	ug/kg	11.5	0.57	1	11/02/18 11:39	11/02/18 17:32	74-87-3	
2-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 17:32	95-49-8	
4-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	<b>11.5 U</b>	ug/kg	11.5	1.3	1	11/02/18 11:39	11/02/18 17:32	96-12-8	
Dibromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.31	1	11/02/18 11:39	11/02/18 17:32	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.6 U</b>	ug/kg	4.6	0.26	1	11/02/18 11:39	11/02/18 17:32	106-93-4	
Dibromomethane	<b>4.6 U</b>	ug/kg	4.6	0.36	1	11/02/18 11:39	11/02/18 17:32	74-95-3	
1,2-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 17:32	95-50-1	
1,3-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.46	1	11/02/18 11:39	11/02/18 17:32	541-73-1	
1,4-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.48	1	11/02/18 11:39	11/02/18 17:32	106-46-7	
Dichlorodifluoromethane	<b>11.5 U</b>	ug/kg	11.5	0.51	1	11/02/18 11:39	11/02/18 17:32	75-71-8	
1,1-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 17:32	75-34-3	
1,2-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	11/02/18 11:39	11/02/18 17:32	107-06-2	
1,1-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 17:32	75-35-4	
cis-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.53	1	11/02/18 11:39	11/02/18 17:32	156-59-2	
trans-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 17:32	156-60-5	
Dichlorofluoromethane	<b>4.6 U</b>	ug/kg	4.6	0.38	1	11/02/18 11:39	11/02/18 17:32	75-43-4	N2
1,2-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.28	1	11/02/18 11:39	11/02/18 17:32	78-87-5	
1,3-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 17:32	142-28-9	
2,2-Dichloropropane	<b>11.5 U</b>	ug/kg	11.5	0.41	1	11/02/18 11:39	11/02/18 17:32	594-20-7	
1,1-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 17:32	563-58-6	
cis-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 17:32	10061-01-5	
trans-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 17:32	10061-02-6	
Diethyl ether (Ethyl ether)	<b>11.5 U</b>	ug/kg	11.5	0.65	1	11/02/18 11:39	11/02/18 17:32	60-29-7	
Ethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 17:32	100-41-4	
Hexachloro-1,3-butadiene	<b>11.5 U</b>	ug/kg	11.5	0.41	1	11/02/18 11:39	11/02/18 17:32	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-10A**      **Lab ID: 10452955010**      Collected: 10/23/18 13:35      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 17:32	98-82-8	
p-Isopropyltoluene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 17:32	99-87-6	
Methylene Chloride	<b>16.7J</b>	ug/kg	23.1	4.2	1	11/02/18 11:39	11/02/18 17:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>23.1 U</b>	ug/kg	23.1	1.6	1	11/02/18 11:39	11/02/18 17:32	108-10-1	
Methyl-tert-butyl ether	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 17:32	1634-04-4	
Naphthalene	<b>11.5 U</b>	ug/kg	11.5	0.43	1	11/02/18 11:39	11/02/18 17:32	91-20-3	
n-Propylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 17:32	103-65-1	
Styrene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 17:32	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.32	1	11/02/18 11:39	11/02/18 17:32	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	11/02/18 11:39	11/02/18 17:32	79-34-5	
Tetrachloroethene	<b>1.3J</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 17:32	127-18-4	
Tetrahydrofuran	<b>46.1 U</b>	ug/kg	46.1	4.6	1	11/02/18 11:39	11/02/18 17:32	109-99-9	
Toluene	<b>4.6 U</b>	ug/kg	4.6	1.1	1	11/02/18 11:39	11/02/18 17:32	108-88-3	
1,2,3-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 17:32	87-61-6	
1,2,4-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 17:32	120-82-1	
1,1,1-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.43	1	11/02/18 11:39	11/02/18 17:32	71-55-6	
1,1,2-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.55	1	11/02/18 11:39	11/02/18 17:32	79-00-5	
Trichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 17:32	79-01-6	
Trichlorofluoromethane	<b>11.5 U</b>	ug/kg	11.5	0.52	1	11/02/18 11:39	11/02/18 17:32	75-69-4	
1,2,3-Trichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.90	1	11/02/18 11:39	11/02/18 17:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.6 U</b>	ug/kg	4.6	1.2	1	11/02/18 11:39	11/02/18 17:32	76-13-1	
1,2,4-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.48	1	11/02/18 11:39	11/02/18 17:32	95-63-6	
1,3,5-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 17:32	108-67-8	
Vinyl chloride	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 17:32	75-01-4	
Xylene (Total)	<b>13.8 U</b>	ug/kg	13.8	0.73	1	11/02/18 11:39	11/02/18 17:32	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-126		1	11/02/18 11:39	11/02/18 17:32	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	11/02/18 11:39	11/02/18 17:32	2037-26-5	
4-Bromofluorobenzene (S)	105	%	75-128		1	11/02/18 11:39	11/02/18 17:32	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-11A Lab ID: 10452955011 Collected: 10/23/18 13:50 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	9.6	%	0.10	0.10	1		11/06/18 17:23		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	24.5 U	ug/kg	24.5	11.2	1	11/02/18 11:39	11/02/18 17:13	67-64-1	
Allyl chloride	12.3 U	ug/kg	12.3	1.2	1	11/02/18 11:39	11/02/18 17:13	107-05-1	
Benzene	4.9 U	ug/kg	4.9	0.41	1	11/02/18 11:39	11/02/18 17:13	71-43-2	
Bromobenzene	4.9 U	ug/kg	4.9	0.42	1	11/02/18 11:39	11/02/18 17:13	108-86-1	
Bromochloromethane	4.9 U	ug/kg	4.9	1.0	1	11/02/18 11:39	11/02/18 17:13	74-97-5	
Bromodichloromethane	4.9 U	ug/kg	4.9	0.42	1	11/02/18 11:39	11/02/18 17:13	75-27-4	
Bromoform	24.5 U	ug/kg	24.5	0.43	1	11/02/18 11:39	11/02/18 17:13	75-25-2	
Bromomethane	24.5 U	ug/kg	24.5	0.35	1	11/02/18 11:39	11/02/18 17:13	74-83-9	
2-Butanone (MEK)	24.5 U	ug/kg	24.5	2.7	1	11/02/18 11:39	11/02/18 17:13	78-93-3	
n-Butylbenzene	4.9 U	ug/kg	4.9	0.35	1	11/02/18 11:39	11/02/18 17:13	104-51-8	
sec-Butylbenzene	4.9 U	ug/kg	4.9	0.39	1	11/02/18 11:39	11/02/18 17:13	135-98-8	
tert-Butylbenzene	4.9 U	ug/kg	4.9	0.43	1	11/02/18 11:39	11/02/18 17:13	98-06-6	
Carbon tetrachloride	4.9 U	ug/kg	4.9	0.40	1	11/02/18 11:39	11/02/18 17:13	56-23-5	
Chlorobenzene	4.9 U	ug/kg	4.9	0.47	1	11/02/18 11:39	11/02/18 17:13	108-90-7	
Chloroethane	12.3 U	ug/kg	12.3	0.35	1	11/02/18 11:39	11/02/18 17:13	75-00-3	
Chloroform	4.9 U	ug/kg	4.9	1.1	1	11/02/18 11:39	11/02/18 17:13	67-66-3	
Chloromethane	12.3 U	ug/kg	12.3	0.61	1	11/02/18 11:39	11/02/18 17:13	74-87-3	
2-Chlorotoluene	4.9 U	ug/kg	4.9	0.50	1	11/02/18 11:39	11/02/18 17:13	95-49-8	
4-Chlorotoluene	4.9 U	ug/kg	4.9	0.51	1	11/02/18 11:39	11/02/18 17:13	106-43-4	
1,2-Dibromo-3-chloropropane	12.3 U	ug/kg	12.3	1.4	1	11/02/18 11:39	11/02/18 17:13	96-12-8	
Dibromochloromethane	4.9 U	ug/kg	4.9	0.33	1	11/02/18 11:39	11/02/18 17:13	124-48-1	
1,2-Dibromoethane (EDB)	4.9 U	ug/kg	4.9	0.28	1	11/02/18 11:39	11/02/18 17:13	106-93-4	
Dibromomethane	4.9 U	ug/kg	4.9	0.38	1	11/02/18 11:39	11/02/18 17:13	74-95-3	
1,2-Dichlorobenzene	4.9 U	ug/kg	4.9	0.50	1	11/02/18 11:39	11/02/18 17:13	95-50-1	
1,3-Dichlorobenzene	4.9 U	ug/kg	4.9	0.48	1	11/02/18 11:39	11/02/18 17:13	541-73-1	
1,4-Dichlorobenzene	4.9 U	ug/kg	4.9	0.51	1	11/02/18 11:39	11/02/18 17:13	106-46-7	
Dichlorodifluoromethane	12.3 U	ug/kg	12.3	0.54	1	11/02/18 11:39	11/02/18 17:13	75-71-8	
1,1-Dichloroethane	4.9 U	ug/kg	4.9	0.52	1	11/02/18 11:39	11/02/18 17:13	75-34-3	
1,2-Dichloroethane	4.9 U	ug/kg	4.9	0.31	1	11/02/18 11:39	11/02/18 17:13	107-06-2	
1,1-Dichloroethene	4.9 U	ug/kg	4.9	0.40	1	11/02/18 11:39	11/02/18 17:13	75-35-4	
cis-1,2-Dichloroethene	4.9 U	ug/kg	4.9	0.57	1	11/02/18 11:39	11/02/18 17:13	156-59-2	
trans-1,2-Dichloroethene	4.9 U	ug/kg	4.9	0.52	1	11/02/18 11:39	11/02/18 17:13	156-60-5	
Dichlorofluoromethane	4.9 U	ug/kg	4.9	0.40	1	11/02/18 11:39	11/02/18 17:13	75-43-4	N2
1,2-Dichloropropane	4.9 U	ug/kg	4.9	0.30	1	11/02/18 11:39	11/02/18 17:13	78-87-5	
1,3-Dichloropropane	4.9 U	ug/kg	4.9	0.45	1	11/02/18 11:39	11/02/18 17:13	142-28-9	
2,2-Dichloropropane	12.3 U	ug/kg	12.3	0.44	1	11/02/18 11:39	11/02/18 17:13	594-20-7	
1,1-Dichloropropene	4.9 U	ug/kg	4.9	0.45	1	11/02/18 11:39	11/02/18 17:13	563-58-6	
cis-1,3-Dichloropropene	4.9 U	ug/kg	4.9	0.36	1	11/02/18 11:39	11/02/18 17:13	10061-01-5	
trans-1,3-Dichloropropene	4.9 U	ug/kg	4.9	0.36	1	11/02/18 11:39	11/02/18 17:13	10061-02-6	
Diethyl ether (Ethyl ether)	12.3 U	ug/kg	12.3	0.69	1	11/02/18 11:39	11/02/18 17:13	60-29-7	
Ethylbenzene	4.9 U	ug/kg	4.9	0.37	1	11/02/18 11:39	11/02/18 17:13	100-41-4	
Hexachloro-1,3-butadiene	12.3 U	ug/kg	12.3	0.43	1	11/02/18 11:39	11/02/18 17:13	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-11A**      **Lab ID: 10452955011**      Collected: 10/23/18 13:50      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.9 U</b>	ug/kg	4.9	0.37	1	11/02/18 11:39	11/02/18 17:13	98-82-8	
p-Isopropyltoluene	<b>4.9 U</b>	ug/kg	4.9	0.43	1	11/02/18 11:39	11/02/18 17:13	99-87-6	
Methylene Chloride	<b>9.2J</b>	ug/kg	24.5	4.5	1	11/02/18 11:39	11/02/18 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>24.5 U</b>	ug/kg	24.5	1.7	1	11/02/18 11:39	11/02/18 17:13	108-10-1	
Methyl-tert-butyl ether	<b>4.9 U</b>	ug/kg	4.9	0.37	1	11/02/18 11:39	11/02/18 17:13	1634-04-4	
Naphthalene	<b>12.3 U</b>	ug/kg	12.3	0.46	1	11/02/18 11:39	11/02/18 17:13	91-20-3	
n-Propylbenzene	<b>4.9 U</b>	ug/kg	4.9	0.42	1	11/02/18 11:39	11/02/18 17:13	103-65-1	
Styrene	<b>4.9 U</b>	ug/kg	4.9	0.36	1	11/02/18 11:39	11/02/18 17:13	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.9 U</b>	ug/kg	4.9	0.34	1	11/02/18 11:39	11/02/18 17:13	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.9 U</b>	ug/kg	4.9	0.31	1	11/02/18 11:39	11/02/18 17:13	79-34-5	
Tetrachloroethene	<b>4.9 U</b>	ug/kg	4.9	0.37	1	11/02/18 11:39	11/02/18 17:13	127-18-4	
Tetrahydrofuran	<b>49.1 U</b>	ug/kg	49.1	4.9	1	11/02/18 11:39	11/02/18 17:13	109-99-9	
Toluene	<b>4.9 U</b>	ug/kg	4.9	1.1	1	11/02/18 11:39	11/02/18 17:13	108-88-3	
1,2,3-Trichlorobenzene	<b>4.9 U</b>	ug/kg	4.9	0.35	1	11/02/18 11:39	11/02/18 17:13	87-61-6	
1,2,4-Trichlorobenzene	<b>4.9 U</b>	ug/kg	4.9	0.45	1	11/02/18 11:39	11/02/18 17:13	120-82-1	
1,1,1-Trichloroethane	<b>4.9 U</b>	ug/kg	4.9	0.46	1	11/02/18 11:39	11/02/18 17:13	71-55-6	
1,1,2-Trichloroethane	<b>4.9 U</b>	ug/kg	4.9	0.58	1	11/02/18 11:39	11/02/18 17:13	79-00-5	
Trichloroethene	<b>4.9 U</b>	ug/kg	4.9	0.43	1	11/02/18 11:39	11/02/18 17:13	79-01-6	
Trichlorofluoromethane	<b>12.3 U</b>	ug/kg	12.3	0.55	1	11/02/18 11:39	11/02/18 17:13	75-69-4	
1,2,3-Trichloropropane	<b>4.9 U</b>	ug/kg	4.9	0.96	1	11/02/18 11:39	11/02/18 17:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.9 U</b>	ug/kg	4.9	1.2	1	11/02/18 11:39	11/02/18 17:13	76-13-1	
1,2,4-Trimethylbenzene	<b>4.9 U</b>	ug/kg	4.9	0.51	1	11/02/18 11:39	11/02/18 17:13	95-63-6	
1,3,5-Trimethylbenzene	<b>4.9 U</b>	ug/kg	4.9	0.47	1	11/02/18 11:39	11/02/18 17:13	108-67-8	
Vinyl chloride	<b>4.9 U</b>	ug/kg	4.9	0.36	1	11/02/18 11:39	11/02/18 17:13	75-01-4	
Xylene (Total)	<b>14.7 U</b>	ug/kg	14.7	0.78	1	11/02/18 11:39	11/02/18 17:13	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-126		1	11/02/18 11:39	11/02/18 17:13	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1	11/02/18 11:39	11/02/18 17:13	2037-26-5	
4-Bromofluorobenzene (S)	118	%	75-128		1	11/02/18 11:39	11/02/18 17:13	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-12A**      **Lab ID: 10452955012**      Collected: 10/23/18 14:05      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>6.2</b>	%	0.10	0.10	1		11/06/18 17:23		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	<b>21.7 U</b>	ug/kg	21.7	9.9	1	11/02/18 11:39	11/02/18 16:54	67-64-1	
Allyl chloride	<b>10.9 U</b>	ug/kg	10.9	1.0	1	11/02/18 11:39	11/02/18 16:54	107-05-1	
Benzene	<b>4.3 U</b>	ug/kg	4.3	0.36	1	11/02/18 11:39	11/02/18 16:54	71-43-2	
Bromobenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 16:54	108-86-1	
Bromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.89	1	11/02/18 11:39	11/02/18 16:54	74-97-5	
Bromodichloromethane	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 16:54	75-27-4	
Bromoform	<b>21.7 U</b>	ug/kg	21.7	0.38	1	11/02/18 11:39	11/02/18 16:54	75-25-2	
Bromomethane	<b>21.7 U</b>	ug/kg	21.7	0.31	1	11/02/18 11:39	11/02/18 16:54	74-83-9	
2-Butanone (MEK)	<b>21.7 U</b>	ug/kg	21.7	2.4	1	11/02/18 11:39	11/02/18 16:54	78-93-3	
n-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	11/02/18 11:39	11/02/18 16:54	104-51-8	
sec-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.34	1	11/02/18 11:39	11/02/18 16:54	135-98-8	
tert-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	11/02/18 11:39	11/02/18 16:54	98-06-6	
Carbon tetrachloride	<b>4.3 U</b>	ug/kg	4.3	0.36	1	11/02/18 11:39	11/02/18 16:54	56-23-5	
Chlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	11/02/18 11:39	11/02/18 16:54	108-90-7	
Chloroethane	<b>10.9 U</b>	ug/kg	10.9	0.31	1	11/02/18 11:39	11/02/18 16:54	75-00-3	
Chloroform	<b>4.3 U</b>	ug/kg	4.3	0.96	1	11/02/18 11:39	11/02/18 16:54	67-66-3	
Chloromethane	<b>10.9 U</b>	ug/kg	10.9	0.54	1	11/02/18 11:39	11/02/18 16:54	74-87-3	
2-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 16:54	95-49-8	
4-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	11/02/18 11:39	11/02/18 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	<b>10.9 U</b>	ug/kg	10.9	1.2	1	11/02/18 11:39	11/02/18 16:54	96-12-8	
Dibromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.29	1	11/02/18 11:39	11/02/18 16:54	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.3 U</b>	ug/kg	4.3	0.25	1	11/02/18 11:39	11/02/18 16:54	106-93-4	
Dibromomethane	<b>4.3 U</b>	ug/kg	4.3	0.34	1	11/02/18 11:39	11/02/18 16:54	74-95-3	
1,2-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 16:54	95-50-1	
1,3-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.43	1	11/02/18 11:39	11/02/18 16:54	541-73-1	
1,4-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.45	1	11/02/18 11:39	11/02/18 16:54	106-46-7	
Dichlorodifluoromethane	<b>10.9 U</b>	ug/kg	10.9	0.48	1	11/02/18 11:39	11/02/18 16:54	75-71-8	
1,1-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.46	1	11/02/18 11:39	11/02/18 16:54	75-34-3	
1,2-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	11/02/18 11:39	11/02/18 16:54	107-06-2	
1,1-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.35	1	11/02/18 11:39	11/02/18 16:54	75-35-4	
cis-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.50	1	11/02/18 11:39	11/02/18 16:54	156-59-2	
trans-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.46	1	11/02/18 11:39	11/02/18 16:54	156-60-5	
Dichlorofluoromethane	<b>4.3 U</b>	ug/kg	4.3	0.35	1	11/02/18 11:39	11/02/18 16:54	75-43-4	N2
1,2-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	11/02/18 11:39	11/02/18 16:54	78-87-5	
1,3-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	11/02/18 11:39	11/02/18 16:54	142-28-9	
2,2-Dichloropropane	<b>10.9 U</b>	ug/kg	10.9	0.39	1	11/02/18 11:39	11/02/18 16:54	594-20-7	
1,1-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.40	1	11/02/18 11:39	11/02/18 16:54	563-58-6	
cis-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 16:54	10061-01-5	
trans-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 16:54	10061-02-6	
Diethyl ether (Ethyl ether)	<b>10.9 U</b>	ug/kg	10.9	0.61	1	11/02/18 11:39	11/02/18 16:54	60-29-7	
Ethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 16:54	100-41-4	
Hexachloro-1,3-butadiene	<b>10.9 U</b>	ug/kg	10.9	0.38	1	11/02/18 11:39	11/02/18 16:54	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: **S-1801023-KJ-12A** Lab ID: **10452955012** Collected: 10/23/18 14:05 Received: 10/24/18 14:00 Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 16:54	98-82-8	
p-Isopropyltoluene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	11/02/18 11:39	11/02/18 16:54	99-87-6	
Methylene Chloride	<b>12.4J</b>	ug/kg	21.7	4.0	1	11/02/18 11:39	11/02/18 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>21.7 U</b>	ug/kg	21.7	1.5	1	11/02/18 11:39	11/02/18 16:54	108-10-1	
Methyl-tert-butyl ether	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 16:54	1634-04-4	
Naphthalene	<b>10.9 U</b>	ug/kg	10.9	0.41	1	11/02/18 11:39	11/02/18 16:54	91-20-3	
n-Propylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 16:54	103-65-1	
Styrene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.30	1	11/02/18 11:39	11/02/18 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.28	1	11/02/18 11:39	11/02/18 16:54	79-34-5	
Tetrachloroethene	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 16:54	127-18-4	
Tetrahydrofuran	<b>43.5 U</b>	ug/kg	43.5	4.4	1	11/02/18 11:39	11/02/18 16:54	109-99-9	
Toluene	<b>4.3 U</b>	ug/kg	4.3	1.0	1	11/02/18 11:39	11/02/18 16:54	108-88-3	
1,2,3-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	11/02/18 11:39	11/02/18 16:54	87-61-6	
1,2,4-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.40	1	11/02/18 11:39	11/02/18 16:54	120-82-1	
1,1,1-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	11/02/18 11:39	11/02/18 16:54	71-55-6	
1,1,2-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.52	1	11/02/18 11:39	11/02/18 16:54	79-00-5	
Trichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	11/02/18 11:39	11/02/18 16:54	79-01-6	
Trichlorofluoromethane	<b>10.9 U</b>	ug/kg	10.9	0.49	1	11/02/18 11:39	11/02/18 16:54	75-69-4	
1,2,3-Trichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.85	1	11/02/18 11:39	11/02/18 16:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.3 U</b>	ug/kg	4.3	1.1	1	11/02/18 11:39	11/02/18 16:54	76-13-1	
1,2,4-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.46	1	11/02/18 11:39	11/02/18 16:54	95-63-6	
1,3,5-Trimethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	11/02/18 11:39	11/02/18 16:54	108-67-8	
Vinyl chloride	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 16:54	75-01-4	
Xylene (Total)	<b>13.0 U</b>	ug/kg	13.0	0.69	1	11/02/18 11:39	11/02/18 16:54	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-126		1	11/02/18 11:39	11/02/18 16:54	17060-07-0	
Toluene-d8 (S)	102	%	75-125		1	11/02/18 11:39	11/02/18 16:54	2037-26-5	
4-Bromofluorobenzene (S)	119	%	75-128		1	11/02/18 11:39	11/02/18 16:54	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-13A Lab ID: 10452955013 Collected: 10/23/18 14:25 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>4.5</b>	%	0.10	0.10	1		11/06/18 17:23		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	<b>19.9J</b>	ug/kg	22.9	10.4	1	11/02/18 11:39	11/02/18 16:35	67-64-1	
Allyl chloride	<b>11.5 U</b>	ug/kg	11.5	1.1	1	11/02/18 11:39	11/02/18 16:35	107-05-1	
Benzene	<b>4.6 U</b>	ug/kg	4.6	0.38	1	11/02/18 11:39	11/02/18 16:35	71-43-2	
Bromobenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 16:35	108-86-1	
Bromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.94	1	11/02/18 11:39	11/02/18 16:35	74-97-5	
Bromodichloromethane	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 16:35	75-27-4	
Bromoform	<b>22.9 U</b>	ug/kg	22.9	0.40	1	11/02/18 11:39	11/02/18 16:35	75-25-2	
Bromomethane	<b>22.9 U</b>	ug/kg	22.9	0.33	1	11/02/18 11:39	11/02/18 16:35	74-83-9	
2-Butanone (MEK)	<b>22.9 U</b>	ug/kg	22.9	2.5	1	11/02/18 11:39	11/02/18 16:35	78-93-3	
n-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.32	1	11/02/18 11:39	11/02/18 16:35	104-51-8	
sec-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.36	1	11/02/18 11:39	11/02/18 16:35	135-98-8	
tert-Butylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 16:35	98-06-6	
Carbon tetrachloride	<b>4.6 U</b>	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 16:35	56-23-5	
Chlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 16:35	108-90-7	
Chloroethane	<b>11.5 U</b>	ug/kg	11.5	0.33	1	11/02/18 11:39	11/02/18 16:35	75-00-3	
Chloroform	<b>4.6 U</b>	ug/kg	4.6	1.0	1	11/02/18 11:39	11/02/18 16:35	67-66-3	
Chloromethane	<b>11.5 U</b>	ug/kg	11.5	0.57	1	11/02/18 11:39	11/02/18 16:35	74-87-3	
2-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 16:35	95-49-8	
4-Chlorotoluene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 16:35	106-43-4	
1,2-Dibromo-3-chloropropane	<b>11.5 U</b>	ug/kg	11.5	1.3	1	11/02/18 11:39	11/02/18 16:35	96-12-8	
Dibromochloromethane	<b>4.6 U</b>	ug/kg	4.6	0.30	1	11/02/18 11:39	11/02/18 16:35	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.6 U</b>	ug/kg	4.6	0.26	1	11/02/18 11:39	11/02/18 16:35	106-93-4	
Dibromomethane	<b>4.6 U</b>	ug/kg	4.6	0.36	1	11/02/18 11:39	11/02/18 16:35	74-95-3	
1,2-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 16:35	95-50-1	
1,3-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.45	1	11/02/18 11:39	11/02/18 16:35	541-73-1	
1,4-Dichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 16:35	106-46-7	
Dichlorodifluoromethane	<b>11.5 U</b>	ug/kg	11.5	0.51	1	11/02/18 11:39	11/02/18 16:35	75-71-8	
1,1-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 16:35	75-34-3	
1,2-Dichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	11/02/18 11:39	11/02/18 16:35	107-06-2	
1,1-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 16:35	75-35-4	
cis-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.53	1	11/02/18 11:39	11/02/18 16:35	156-59-2	
trans-1,2-Dichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 16:35	156-60-5	
Dichlorofluoromethane	<b>4.6 U</b>	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 16:35	75-43-4	N2
1,2-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.28	1	11/02/18 11:39	11/02/18 16:35	78-87-5	
1,3-Dichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 16:35	142-28-9	
2,2-Dichloropropane	<b>11.5 U</b>	ug/kg	11.5	0.41	1	11/02/18 11:39	11/02/18 16:35	594-20-7	
1,1-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 16:35	563-58-6	
cis-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 16:35	10061-01-5	
trans-1,3-Dichloropropene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 16:35	10061-02-6	
Diethyl ether (Ethyl ether)	<b>11.5 U</b>	ug/kg	11.5	0.65	1	11/02/18 11:39	11/02/18 16:35	60-29-7	
Ethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 16:35	100-41-4	
Hexachloro-1,3-butadiene	<b>11.5 U</b>	ug/kg	11.5	0.40	1	11/02/18 11:39	11/02/18 16:35	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-13A**      **Lab ID: 10452955013**      Collected: 10/23/18 14:25      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 16:35	98-82-8	
p-Isopropyltoluene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 16:35	99-87-6	
Methylene Chloride	<b>23.4</b>	ug/kg	22.9	4.2	1	11/02/18 11:39	11/02/18 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>22.9 U</b>	ug/kg	22.9	1.6	1	11/02/18 11:39	11/02/18 16:35	108-10-1	
Methyl-tert-butyl ether	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 16:35	1634-04-4	
Naphthalene	<b>11.5 U</b>	ug/kg	11.5	0.43	1	11/02/18 11:39	11/02/18 16:35	91-20-3	
n-Propylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 16:35	103-65-1	
Styrene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 16:35	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.32	1	11/02/18 11:39	11/02/18 16:35	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	11/02/18 11:39	11/02/18 16:35	79-34-5	
Tetrachloroethene	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 16:35	127-18-4	
Tetrahydrofuran	<b>45.8 U</b>	ug/kg	45.8	4.6	1	11/02/18 11:39	11/02/18 16:35	109-99-9	
Toluene	<b>4.6 U</b>	ug/kg	4.6	1.1	1	11/02/18 11:39	11/02/18 16:35	108-88-3	
1,2,3-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 16:35	87-61-6	
1,2,4-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 16:35	120-82-1	
1,1,1-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.43	1	11/02/18 11:39	11/02/18 16:35	71-55-6	
1,1,2-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.54	1	11/02/18 11:39	11/02/18 16:35	79-00-5	
Trichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 16:35	79-01-6	
Trichlorofluoromethane	<b>11.5 U</b>	ug/kg	11.5	0.51	1	11/02/18 11:39	11/02/18 16:35	75-69-4	
1,2,3-Trichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.89	1	11/02/18 11:39	11/02/18 16:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.6 U</b>	ug/kg	4.6	1.1	1	11/02/18 11:39	11/02/18 16:35	76-13-1	
1,2,4-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.48	1	11/02/18 11:39	11/02/18 16:35	95-63-6	
1,3,5-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 16:35	108-67-8	
Vinyl chloride	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 16:35	75-01-4	
Xylene (Total)	<b>13.8 U</b>	ug/kg	13.8	0.73	1	11/02/18 11:39	11/02/18 16:35	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	93	%	75-126		1	11/02/18 11:39	11/02/18 16:35	17060-07-0	
Toluene-d8 (S)	105	%	75-125		1	11/02/18 11:39	11/02/18 16:35	2037-26-5	
4-Bromofluorobenzene (S)	125	%	75-128		1	11/02/18 11:39	11/02/18 16:35	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07B**      **Lab ID: 10452955020**      Collected: 10/23/18 12:55      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>13.6</b>	%	0.10	0.10	1		11/06/18 17:24		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>22.7 U</b>	ug/kg	22.7	10.3	1	11/02/18 11:39	11/02/18 16:16	67-64-1	
Allyl chloride	<b>11.4 U</b>	ug/kg	11.4	1.1	1	11/02/18 11:39	11/02/18 16:16	107-05-1	
Benzene	<b>4.5 U</b>	ug/kg	4.5	0.38	1	11/02/18 11:39	11/02/18 16:16	71-43-2	
Bromobenzene	<b>4.5 U</b>	ug/kg	4.5	0.39	1	11/02/18 11:39	11/02/18 16:16	108-86-1	
Bromochloromethane	<b>4.5 U</b>	ug/kg	4.5	0.93	1	11/02/18 11:39	11/02/18 16:16	74-97-5	
Bromodichloromethane	<b>4.5 U</b>	ug/kg	4.5	0.39	1	11/02/18 11:39	11/02/18 16:16	75-27-4	
Bromoform	<b>22.7 U</b>	ug/kg	22.7	0.40	1	11/02/18 11:39	11/02/18 16:16	75-25-2	
Bromomethane	<b>22.7 U</b>	ug/kg	22.7	0.32	1	11/02/18 11:39	11/02/18 16:16	74-83-9	
2-Butanone (MEK)	<b>22.7 U</b>	ug/kg	22.7	2.5	1	11/02/18 11:39	11/02/18 16:16	78-93-3	
n-Butylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.32	1	11/02/18 11:39	11/02/18 16:16	104-51-8	
sec-Butylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.36	1	11/02/18 11:39	11/02/18 16:16	135-98-8	
tert-Butylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.40	1	11/02/18 11:39	11/02/18 16:16	98-06-6	
Carbon tetrachloride	<b>4.5 U</b>	ug/kg	4.5	0.37	1	11/02/18 11:39	11/02/18 16:16	56-23-5	
Chlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.44	1	11/02/18 11:39	11/02/18 16:16	108-90-7	
Chloroethane	<b>11.4 U</b>	ug/kg	11.4	0.33	1	11/02/18 11:39	11/02/18 16:16	75-00-3	
Chloroform	<b>4.5 U</b>	ug/kg	4.5	1.0	1	11/02/18 11:39	11/02/18 16:16	67-66-3	
Chloromethane	<b>11.4 U</b>	ug/kg	11.4	0.56	1	11/02/18 11:39	11/02/18 16:16	74-87-3	
2-Chlorotoluene	<b>4.5 U</b>	ug/kg	4.5	0.46	1	11/02/18 11:39	11/02/18 16:16	95-49-8	
4-Chlorotoluene	<b>4.5 U</b>	ug/kg	4.5	0.47	1	11/02/18 11:39	11/02/18 16:16	106-43-4	
1,2-Dibromo-3-chloropropane	<b>11.4 U</b>	ug/kg	11.4	1.3	1	11/02/18 11:39	11/02/18 16:16	96-12-8	
Dibromochloromethane	<b>4.5 U</b>	ug/kg	4.5	0.30	1	11/02/18 11:39	11/02/18 16:16	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.5 U</b>	ug/kg	4.5	0.26	1	11/02/18 11:39	11/02/18 16:16	106-93-4	
Dibromomethane	<b>4.5 U</b>	ug/kg	4.5	0.35	1	11/02/18 11:39	11/02/18 16:16	74-95-3	
1,2-Dichlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.46	1	11/02/18 11:39	11/02/18 16:16	95-50-1	
1,3-Dichlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.45	1	11/02/18 11:39	11/02/18 16:16	541-73-1	
1,4-Dichlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.47	1	11/02/18 11:39	11/02/18 16:16	106-46-7	
Dichlorodifluoromethane	<b>11.4 U</b>	ug/kg	11.4	0.50	1	11/02/18 11:39	11/02/18 16:16	75-71-8	
1,1-Dichloroethane	<b>4.5 U</b>	ug/kg	4.5	0.49	1	11/02/18 11:39	11/02/18 16:16	75-34-3	
1,2-Dichloroethane	<b>4.5 U</b>	ug/kg	4.5	0.28	1	11/02/18 11:39	11/02/18 16:16	107-06-2	
1,1-Dichloroethene	<b>4.5 U</b>	ug/kg	4.5	0.37	1	11/02/18 11:39	11/02/18 16:16	75-35-4	
cis-1,2-Dichloroethene	<b>4.5 U</b>	ug/kg	4.5	0.52	1	11/02/18 11:39	11/02/18 16:16	156-59-2	
trans-1,2-Dichloroethene	<b>4.5 U</b>	ug/kg	4.5	0.49	1	11/02/18 11:39	11/02/18 16:16	156-60-5	
Dichlorofluoromethane	<b>4.5 U</b>	ug/kg	4.5	0.37	1	11/02/18 11:39	11/02/18 16:16	75-43-4	N2
1,2-Dichloropropane	<b>4.5 U</b>	ug/kg	4.5	0.28	1	11/02/18 11:39	11/02/18 16:16	78-87-5	
1,3-Dichloropropane	<b>4.5 U</b>	ug/kg	4.5	0.42	1	11/02/18 11:39	11/02/18 16:16	142-28-9	
2,2-Dichloropropane	<b>11.4 U</b>	ug/kg	11.4	0.40	1	11/02/18 11:39	11/02/18 16:16	594-20-7	
1,1-Dichloropropene	<b>4.5 U</b>	ug/kg	4.5	0.42	1	11/02/18 11:39	11/02/18 16:16	563-58-6	
cis-1,3-Dichloropropene	<b>4.5 U</b>	ug/kg	4.5	0.33	1	11/02/18 11:39	11/02/18 16:16	10061-01-5	
trans-1,3-Dichloropropene	<b>4.5 U</b>	ug/kg	4.5	0.33	1	11/02/18 11:39	11/02/18 16:16	10061-02-6	
Diethyl ether (Ethyl ether)	<b>11.4 U</b>	ug/kg	11.4	0.64	1	11/02/18 11:39	11/02/18 16:16	60-29-7	
Ethylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.34	1	11/02/18 11:39	11/02/18 16:16	100-41-4	
Hexachloro-1,3-butadiene	<b>11.4 U</b>	ug/kg	11.4	0.40	1	11/02/18 11:39	11/02/18 16:16	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07B**      **Lab ID: 10452955020**      Collected: 10/23/18 12:55      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.5 U</b>	ug/kg	4.5	0.35	1	11/02/18 11:39	11/02/18 16:16	98-82-8	
p-Isopropyltoluene	<b>4.5 U</b>	ug/kg	4.5	0.40	1	11/02/18 11:39	11/02/18 16:16	99-87-6	
Methylene Chloride	<b>12.6J</b>	ug/kg	22.7	4.2	1	11/02/18 11:39	11/02/18 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>22.7 U</b>	ug/kg	22.7	1.6	1	11/02/18 11:39	11/02/18 16:16	108-10-1	
Methyl-tert-butyl ether	<b>4.5 U</b>	ug/kg	4.5	0.35	1	11/02/18 11:39	11/02/18 16:16	1634-04-4	
Naphthalene	<b>11.4 U</b>	ug/kg	11.4	0.42	1	11/02/18 11:39	11/02/18 16:16	91-20-3	
n-Propylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.39	1	11/02/18 11:39	11/02/18 16:16	103-65-1	
Styrene	<b>4.5 U</b>	ug/kg	4.5	0.33	1	11/02/18 11:39	11/02/18 16:16	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.5 U</b>	ug/kg	4.5	0.32	1	11/02/18 11:39	11/02/18 16:16	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.5 U</b>	ug/kg	4.5	0.29	1	11/02/18 11:39	11/02/18 16:16	79-34-5	
Tetrachloroethene	<b>4.6</b>	ug/kg	4.5	0.34	1	11/02/18 11:39	11/02/18 16:16	127-18-4	
Tetrahydrofuran	<b>45.5 U</b>	ug/kg	45.5	4.6	1	11/02/18 11:39	11/02/18 16:16	109-99-9	
Toluene	<b>4.5 U</b>	ug/kg	4.5	1.1	1	11/02/18 11:39	11/02/18 16:16	108-88-3	
1,2,3-Trichlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.33	1	11/02/18 11:39	11/02/18 16:16	87-61-6	
1,2,4-Trichlorobenzene	<b>4.5 U</b>	ug/kg	4.5	0.42	1	11/02/18 11:39	11/02/18 16:16	120-82-1	
1,1,1-Trichloroethane	<b>4.5 U</b>	ug/kg	4.5	0.42	1	11/02/18 11:39	11/02/18 16:16	71-55-6	
1,1,2-Trichloroethane	<b>4.5 U</b>	ug/kg	4.5	0.54	1	11/02/18 11:39	11/02/18 16:16	79-00-5	
Trichloroethene	<b>4.5 U</b>	ug/kg	4.5	0.39	1	11/02/18 11:39	11/02/18 16:16	79-01-6	
Trichlorofluoromethane	<b>11.4 U</b>	ug/kg	11.4	0.51	1	11/02/18 11:39	11/02/18 16:16	75-69-4	
1,2,3-Trichloropropane	<b>4.5 U</b>	ug/kg	4.5	0.89	1	11/02/18 11:39	11/02/18 16:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.5 U</b>	ug/kg	4.5	1.1	1	11/02/18 11:39	11/02/18 16:16	76-13-1	
1,2,4-Trimethylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.48	1	11/02/18 11:39	11/02/18 16:16	95-63-6	
1,3,5-Trimethylbenzene	<b>4.5 U</b>	ug/kg	4.5	0.44	1	11/02/18 11:39	11/02/18 16:16	108-67-8	
Vinyl chloride	<b>4.5 U</b>	ug/kg	4.5	0.33	1	11/02/18 11:39	11/02/18 16:16	75-01-4	
Xylene (Total)	<b>13.6 U</b>	ug/kg	13.6	0.72	1	11/02/18 11:39	11/02/18 16:16	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-126		1	11/02/18 11:39	11/02/18 16:16	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	11/02/18 11:39	11/02/18 16:16	2037-26-5	
4-Bromofluorobenzene (S)	106	%	75-128		1	11/02/18 11:39	11/02/18 16:16	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-08B**      **Lab ID: 10452955021**      Collected: 10/23/18 13:10      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>8.9</b>	%	0.10	0.10	1		11/06/18 17:24		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>21.2 U</b>	ug/kg	21.2	9.6	1	11/02/18 11:39	11/02/18 15:57	67-64-1	
Allyl chloride	<b>10.6 U</b>	ug/kg	10.6	1.0	1	11/02/18 11:39	11/02/18 15:57	107-05-1	
Benzene	<b>4.2 U</b>	ug/kg	4.2	0.35	1	11/02/18 11:39	11/02/18 15:57	71-43-2	
Bromobenzene	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:57	108-86-1	
Bromochloromethane	<b>4.2 U</b>	ug/kg	4.2	0.87	1	11/02/18 11:39	11/02/18 15:57	74-97-5	
Bromodichloromethane	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:57	75-27-4	
Bromoform	<b>21.2 U</b>	ug/kg	21.2	0.37	1	11/02/18 11:39	11/02/18 15:57	75-25-2	
Bromomethane	<b>21.2 U</b>	ug/kg	21.2	0.30	1	11/02/18 11:39	11/02/18 15:57	74-83-9	
2-Butanone (MEK)	<b>21.2 U</b>	ug/kg	21.2	2.3	1	11/02/18 11:39	11/02/18 15:57	78-93-3	
n-Butylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.30	1	11/02/18 11:39	11/02/18 15:57	104-51-8	
sec-Butylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.33	1	11/02/18 11:39	11/02/18 15:57	135-98-8	
tert-Butylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.37	1	11/02/18 11:39	11/02/18 15:57	98-06-6	
Carbon tetrachloride	<b>4.2 U</b>	ug/kg	4.2	0.35	1	11/02/18 11:39	11/02/18 15:57	56-23-5	
Chlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.41	1	11/02/18 11:39	11/02/18 15:57	108-90-7	
Chloroethane	<b>10.6 U</b>	ug/kg	10.6	0.30	1	11/02/18 11:39	11/02/18 15:57	75-00-3	
Chloroform	<b>4.2 U</b>	ug/kg	4.2	0.94	1	11/02/18 11:39	11/02/18 15:57	67-66-3	
Chloromethane	<b>10.6 U</b>	ug/kg	10.6	0.52	1	11/02/18 11:39	11/02/18 15:57	74-87-3	
2-Chlorotoluene	<b>4.2 U</b>	ug/kg	4.2	0.43	1	11/02/18 11:39	11/02/18 15:57	95-49-8	
4-Chlorotoluene	<b>4.2 U</b>	ug/kg	4.2	0.44	1	11/02/18 11:39	11/02/18 15:57	106-43-4	
1,2-Dibromo-3-chloropropane	<b>10.6 U</b>	ug/kg	10.6	1.2	1	11/02/18 11:39	11/02/18 15:57	96-12-8	
Dibromochloromethane	<b>4.2 U</b>	ug/kg	4.2	0.28	1	11/02/18 11:39	11/02/18 15:57	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.2 U</b>	ug/kg	4.2	0.24	1	11/02/18 11:39	11/02/18 15:57	106-93-4	
Dibromomethane	<b>4.2 U</b>	ug/kg	4.2	0.33	1	11/02/18 11:39	11/02/18 15:57	74-95-3	
1,2-Dichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.43	1	11/02/18 11:39	11/02/18 15:57	95-50-1	
1,3-Dichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.42	1	11/02/18 11:39	11/02/18 15:57	541-73-1	
1,4-Dichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.44	1	11/02/18 11:39	11/02/18 15:57	106-46-7	
Dichlorodifluoromethane	<b>10.6 U</b>	ug/kg	10.6	0.47	1	11/02/18 11:39	11/02/18 15:57	75-71-8	
1,1-Dichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.45	1	11/02/18 11:39	11/02/18 15:57	75-34-3	
1,2-Dichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.27	1	11/02/18 11:39	11/02/18 15:57	107-06-2	
1,1-Dichloroethene	<b>4.2 U</b>	ug/kg	4.2	0.34	1	11/02/18 11:39	11/02/18 15:57	75-35-4	
cis-1,2-Dichloroethene	<b>4.2 U</b>	ug/kg	4.2	0.49	1	11/02/18 11:39	11/02/18 15:57	156-59-2	
trans-1,2-Dichloroethene	<b>4.2 U</b>	ug/kg	4.2	0.45	1	11/02/18 11:39	11/02/18 15:57	156-60-5	
Dichlorofluoromethane	<b>4.2 U</b>	ug/kg	4.2	0.35	1	11/02/18 11:39	11/02/18 15:57	75-43-4	N2
1,2-Dichloropropane	<b>4.2 U</b>	ug/kg	4.2	0.26	1	11/02/18 11:39	11/02/18 15:57	78-87-5	
1,3-Dichloropropane	<b>4.2 U</b>	ug/kg	4.2	0.39	1	11/02/18 11:39	11/02/18 15:57	142-28-9	
2,2-Dichloropropane	<b>10.6 U</b>	ug/kg	10.6	0.38	1	11/02/18 11:39	11/02/18 15:57	594-20-7	
1,1-Dichloropropene	<b>4.2 U</b>	ug/kg	4.2	0.39	1	11/02/18 11:39	11/02/18 15:57	563-58-6	
cis-1,3-Dichloropropene	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:57	10061-01-5	
trans-1,3-Dichloropropene	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:57	10061-02-6	
Diethyl ether (Ethyl ether)	<b>10.6 U</b>	ug/kg	10.6	0.60	1	11/02/18 11:39	11/02/18 15:57	60-29-7	
Ethylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:57	100-41-4	
Hexachloro-1,3-butadiene	<b>10.6 U</b>	ug/kg	10.6	0.37	1	11/02/18 11:39	11/02/18 15:57	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-08B**      **Lab ID: 10452955021**      Collected: 10/23/18 13:10      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.2 U</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:57	98-82-8	
p-Isopropyltoluene	<b>4.2 U</b>	ug/kg	4.2	0.37	1	11/02/18 11:39	11/02/18 15:57	99-87-6	
Methylene Chloride	<b>14.6J</b>	ug/kg	21.2	3.9	1	11/02/18 11:39	11/02/18 15:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>21.2 U</b>	ug/kg	21.2	1.5	1	11/02/18 11:39	11/02/18 15:57	108-10-1	
Methyl-tert-butyl ether	<b>4.2 U</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:57	1634-04-4	
Naphthalene	<b>10.6 U</b>	ug/kg	10.6	0.40	1	11/02/18 11:39	11/02/18 15:57	91-20-3	
n-Propylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:57	103-65-1	
Styrene	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:57	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.2 U</b>	ug/kg	4.2	0.29	1	11/02/18 11:39	11/02/18 15:57	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.2 U</b>	ug/kg	4.2	0.27	1	11/02/18 11:39	11/02/18 15:57	79-34-5	
Tetrachloroethene	<b>5.2</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:57	127-18-4	
Tetrahydrofuran	<b>42.4 U</b>	ug/kg	42.4	4.3	1	11/02/18 11:39	11/02/18 15:57	109-99-9	
Toluene	<b>4.2 U</b>	ug/kg	4.2	0.99	1	11/02/18 11:39	11/02/18 15:57	108-88-3	
1,2,3-Trichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:57	87-61-6	
1,2,4-Trichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.39	1	11/02/18 11:39	11/02/18 15:57	120-82-1	
1,1,1-Trichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.39	1	11/02/18 11:39	11/02/18 15:57	71-55-6	
1,1,2-Trichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.50	1	11/02/18 11:39	11/02/18 15:57	79-00-5	
Trichloroethene	<b>4.2 U</b>	ug/kg	4.2	0.37	1	11/02/18 11:39	11/02/18 15:57	79-01-6	
Trichlorofluoromethane	<b>10.6 U</b>	ug/kg	10.6	0.47	1	11/02/18 11:39	11/02/18 15:57	75-69-4	
1,2,3-Trichloropropane	<b>4.2 U</b>	ug/kg	4.2	0.83	1	11/02/18 11:39	11/02/18 15:57	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.2 U</b>	ug/kg	4.2	1.1	1	11/02/18 11:39	11/02/18 15:57	76-13-1	
1,2,4-Trimethylbenzene	<b>1.6J</b>	ug/kg	4.2	0.44	1	11/02/18 11:39	11/02/18 15:57	95-63-6	
1,3,5-Trimethylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.41	1	11/02/18 11:39	11/02/18 15:57	108-67-8	
Vinyl chloride	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:57	75-01-4	
Xylene (Total)	<b>12.7 U</b>	ug/kg	12.7	0.67	1	11/02/18 11:39	11/02/18 15:57	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	94	%	75-126		1	11/02/18 11:39	11/02/18 15:57	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1	11/02/18 11:39	11/02/18 15:57	2037-26-5	
4-Bromofluorobenzene (S)	111	%	75-128		1	11/02/18 11:39	11/02/18 15:57	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-09B Lab ID: 10452955022 Collected: 10/23/18 13:25 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	5.2	%	0.10	0.10	1		11/06/18 17:24		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	20.8 U	ug/kg	20.8	9.4	1	11/02/18 11:39	11/02/18 15:38	67-64-1	
Allyl chloride	10.4 U	ug/kg	10.4	1.0	1	11/02/18 11:39	11/02/18 15:38	107-05-1	
Benzene	4.2 U	ug/kg	4.2	0.35	1	11/02/18 11:39	11/02/18 15:38	71-43-2	
Bromobenzene	4.2 U	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:38	108-86-1	
Bromochloromethane	4.2 U	ug/kg	4.2	0.85	1	11/02/18 11:39	11/02/18 15:38	74-97-5	
Bromodichloromethane	4.2 U	ug/kg	4.2	0.35	1	11/02/18 11:39	11/02/18 15:38	75-27-4	
Bromoform	20.8 U	ug/kg	20.8	0.37	1	11/02/18 11:39	11/02/18 15:38	75-25-2	
Bromomethane	20.8 U	ug/kg	20.8	0.29	1	11/02/18 11:39	11/02/18 15:38	74-83-9	
2-Butanone (MEK)	20.8 U	ug/kg	20.8	2.3	1	11/02/18 11:39	11/02/18 15:38	78-93-3	
n-Butylbenzene	4.2 U	ug/kg	4.2	0.29	1	11/02/18 11:39	11/02/18 15:38	104-51-8	
sec-Butylbenzene	4.2 U	ug/kg	4.2	0.33	1	11/02/18 11:39	11/02/18 15:38	135-98-8	
tert-Butylbenzene	4.2 U	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:38	98-06-6	
Carbon tetrachloride	4.2 U	ug/kg	4.2	0.34	1	11/02/18 11:39	11/02/18 15:38	56-23-5	
Chlorobenzene	4.2 U	ug/kg	4.2	0.40	1	11/02/18 11:39	11/02/18 15:38	108-90-7	
Chloroethane	10.4 U	ug/kg	10.4	0.30	1	11/02/18 11:39	11/02/18 15:38	75-00-3	
Chloroform	4.2 U	ug/kg	4.2	0.92	1	11/02/18 11:39	11/02/18 15:38	67-66-3	
Chloromethane	10.4 U	ug/kg	10.4	0.51	1	11/02/18 11:39	11/02/18 15:38	74-87-3	
2-Chlorotoluene	4.2 U	ug/kg	4.2	0.42	1	11/02/18 11:39	11/02/18 15:38	95-49-8	
4-Chlorotoluene	4.2 U	ug/kg	4.2	0.43	1	11/02/18 11:39	11/02/18 15:38	106-43-4	
1,2-Dibromo-3-chloropropane	10.4 U	ug/kg	10.4	1.2	1	11/02/18 11:39	11/02/18 15:38	96-12-8	
Dibromochloromethane	4.2 U	ug/kg	4.2	0.28	1	11/02/18 11:39	11/02/18 15:38	124-48-1	
1,2-Dibromoethane (EDB)	4.2 U	ug/kg	4.2	0.23	1	11/02/18 11:39	11/02/18 15:38	106-93-4	
Dibromomethane	4.2 U	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:38	74-95-3	
1,2-Dichlorobenzene	4.2 U	ug/kg	4.2	0.42	1	11/02/18 11:39	11/02/18 15:38	95-50-1	
1,3-Dichlorobenzene	4.2 U	ug/kg	4.2	0.41	1	11/02/18 11:39	11/02/18 15:38	541-73-1	
1,4-Dichlorobenzene	4.2 U	ug/kg	4.2	0.43	1	11/02/18 11:39	11/02/18 15:38	106-46-7	
Dichlorodifluoromethane	10.4 U	ug/kg	10.4	0.46	1	11/02/18 11:39	11/02/18 15:38	75-71-8	
1,1-Dichloroethane	4.2 U	ug/kg	4.2	0.44	1	11/02/18 11:39	11/02/18 15:38	75-34-3	
1,2-Dichloroethane	4.2 U	ug/kg	4.2	0.26	1	11/02/18 11:39	11/02/18 15:38	107-06-2	
1,1-Dichloroethene	4.2 U	ug/kg	4.2	0.33	1	11/02/18 11:39	11/02/18 15:38	75-35-4	
cis-1,2-Dichloroethene	4.2 U	ug/kg	4.2	0.48	1	11/02/18 11:39	11/02/18 15:38	156-59-2	
trans-1,2-Dichloroethene	4.2 U	ug/kg	4.2	0.44	1	11/02/18 11:39	11/02/18 15:38	156-60-5	
Dichlorofluoromethane	4.2 U	ug/kg	4.2	0.34	1	11/02/18 11:39	11/02/18 15:38	75-43-4	N2
1,2-Dichloropropane	4.2 U	ug/kg	4.2	0.25	1	11/02/18 11:39	11/02/18 15:38	78-87-5	
1,3-Dichloropropane	4.2 U	ug/kg	4.2	0.38	1	11/02/18 11:39	11/02/18 15:38	142-28-9	
2,2-Dichloropropane	10.4 U	ug/kg	10.4	0.37	1	11/02/18 11:39	11/02/18 15:38	594-20-7	
1,1-Dichloropropene	4.2 U	ug/kg	4.2	0.38	1	11/02/18 11:39	11/02/18 15:38	563-58-6	
cis-1,3-Dichloropropene	4.2 U	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:38	10061-01-5	
trans-1,3-Dichloropropene	4.2 U	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:38	10061-02-6	
Diethyl ether (Ethyl ether)	10.4 U	ug/kg	10.4	0.58	1	11/02/18 11:39	11/02/18 15:38	60-29-7	
Ethylbenzene	4.2 U	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:38	100-41-4	
Hexachloro-1,3-butadiene	10.4 U	ug/kg	10.4	0.37	1	11/02/18 11:39	11/02/18 15:38	87-68-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-09B**      **Lab ID: 10452955022**      Collected: 10/23/18 13:25      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.2 U</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:38	98-82-8	
p-Isopropyltoluene	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:38	99-87-6	
Methylene Chloride	<b>8.9J</b>	ug/kg	20.8	3.8	1	11/02/18 11:39	11/02/18 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>20.8 U</b>	ug/kg	20.8	1.4	1	11/02/18 11:39	11/02/18 15:38	108-10-1	
Methyl-tert-butyl ether	<b>4.2 U</b>	ug/kg	4.2	0.32	1	11/02/18 11:39	11/02/18 15:38	1634-04-4	
Naphthalene	<b>10.4 U</b>	ug/kg	10.4	0.39	1	11/02/18 11:39	11/02/18 15:38	91-20-3	
n-Propylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:38	103-65-1	
Styrene	<b>4.2 U</b>	ug/kg	4.2	0.30	1	11/02/18 11:39	11/02/18 15:38	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.2 U</b>	ug/kg	4.2	0.29	1	11/02/18 11:39	11/02/18 15:38	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.2 U</b>	ug/kg	4.2	0.26	1	11/02/18 11:39	11/02/18 15:38	79-34-5	
Tetrachloroethene	<b>10.6</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:38	127-18-4	
Tetrahydrofuran	<b>41.5 U</b>	ug/kg	41.5	4.2	1	11/02/18 11:39	11/02/18 15:38	109-99-9	
Toluene	<b>4.2 U</b>	ug/kg	4.2	0.97	1	11/02/18 11:39	11/02/18 15:38	108-88-3	
1,2,3-Trichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.30	1	11/02/18 11:39	11/02/18 15:38	87-61-6	
1,2,4-Trichlorobenzene	<b>4.2 U</b>	ug/kg	4.2	0.38	1	11/02/18 11:39	11/02/18 15:38	120-82-1	
1,1,1-Trichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.39	1	11/02/18 11:39	11/02/18 15:38	71-55-6	
1,1,2-Trichloroethane	<b>4.2 U</b>	ug/kg	4.2	0.49	1	11/02/18 11:39	11/02/18 15:38	79-00-5	
Trichloroethene	<b>4.2 U</b>	ug/kg	4.2	0.36	1	11/02/18 11:39	11/02/18 15:38	79-01-6	
Trichlorofluoromethane	<b>10.4 U</b>	ug/kg	10.4	0.46	1	11/02/18 11:39	11/02/18 15:38	75-69-4	
1,2,3-Trichloropropane	<b>4.2 U</b>	ug/kg	4.2	0.81	1	11/02/18 11:39	11/02/18 15:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.2 U</b>	ug/kg	4.2	1.0	1	11/02/18 11:39	11/02/18 15:38	76-13-1	
1,2,4-Trimethylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.43	1	11/02/18 11:39	11/02/18 15:38	95-63-6	
1,3,5-Trimethylbenzene	<b>4.2 U</b>	ug/kg	4.2	0.40	1	11/02/18 11:39	11/02/18 15:38	108-67-8	
Vinyl chloride	<b>4.2 U</b>	ug/kg	4.2	0.31	1	11/02/18 11:39	11/02/18 15:38	75-01-4	
Xylene (Total)	<b>12.5 U</b>	ug/kg	12.5	0.66	1	11/02/18 11:39	11/02/18 15:38	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-126		1	11/02/18 11:39	11/02/18 15:38	17060-07-0	
Toluene-d8 (S)	99	%	75-125		1	11/02/18 11:39	11/02/18 15:38	2037-26-5	
4-Bromofluorobenzene (S)	111	%	75-128		1	11/02/18 11:39	11/02/18 15:38	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07C**      **Lab ID: 10452955033**      Collected: 10/23/18 13:00      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>4.9</b>	%	0.10	0.10	1		11/07/18 17:08		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>21.5 U</b>	ug/kg	21.5	9.8	1	11/02/18 11:39	11/02/18 15:19	67-64-1	
Allyl chloride	<b>10.7 U</b>	ug/kg	10.7	1.0	1	11/02/18 11:39	11/02/18 15:19	107-05-1	
Benzene	<b>4.3 U</b>	ug/kg	4.3	0.36	1	11/02/18 11:39	11/02/18 15:19	71-43-2	
Bromobenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 15:19	108-86-1	
Bromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.88	1	11/02/18 11:39	11/02/18 15:19	74-97-5	
Bromodichloromethane	<b>4.3 U</b>	ug/kg	4.3	0.36	1	11/02/18 11:39	11/02/18 15:19	75-27-4	
Bromoform	<b>21.5 U</b>	ug/kg	21.5	0.38	1	11/02/18 11:39	11/02/18 15:19	75-25-2	
Bromomethane	<b>21.5 U</b>	ug/kg	21.5	0.30	1	11/02/18 11:39	11/02/18 15:19	74-83-9	
2-Butanone (MEK)	<b>21.5 U</b>	ug/kg	21.5	2.3	1	11/02/18 11:39	11/02/18 15:19	78-93-3	
n-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.30	1	11/02/18 11:39	11/02/18 15:19	104-51-8	
sec-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.34	1	11/02/18 11:39	11/02/18 15:19	135-98-8	
tert-Butylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.38	1	11/02/18 11:39	11/02/18 15:19	98-06-6	
Carbon tetrachloride	<b>4.3 U</b>	ug/kg	4.3	0.35	1	11/02/18 11:39	11/02/18 15:19	56-23-5	
Chlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.41	1	11/02/18 11:39	11/02/18 15:19	108-90-7	
Chloroethane	<b>10.7 U</b>	ug/kg	10.7	0.31	1	11/02/18 11:39	11/02/18 15:19	75-00-3	
Chloroform	<b>4.3 U</b>	ug/kg	4.3	0.95	1	11/02/18 11:39	11/02/18 15:19	67-66-3	
Chloromethane	<b>10.7 U</b>	ug/kg	10.7	0.53	1	11/02/18 11:39	11/02/18 15:19	74-87-3	
2-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 15:19	95-49-8	
4-Chlorotoluene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	<b>10.7 U</b>	ug/kg	10.7	1.2	1	11/02/18 11:39	11/02/18 15:19	96-12-8	
Dibromochloromethane	<b>4.3 U</b>	ug/kg	4.3	0.28	1	11/02/18 11:39	11/02/18 15:19	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.3 U</b>	ug/kg	4.3	0.24	1	11/02/18 11:39	11/02/18 15:19	106-93-4	
Dibromomethane	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 15:19	74-95-3	
1,2-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 15:19	95-50-1	
1,3-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.42	1	11/02/18 11:39	11/02/18 15:19	541-73-1	
1,4-Dichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.44	1	11/02/18 11:39	11/02/18 15:19	106-46-7	
Dichlorodifluoromethane	<b>10.7 U</b>	ug/kg	10.7	0.48	1	11/02/18 11:39	11/02/18 15:19	75-71-8	
1,1-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.46	1	11/02/18 11:39	11/02/18 15:19	75-34-3	
1,2-Dichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	11/02/18 11:39	11/02/18 15:19	107-06-2	
1,1-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.35	1	11/02/18 11:39	11/02/18 15:19	75-35-4	
cis-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.49	1	11/02/18 11:39	11/02/18 15:19	156-59-2	
trans-1,2-Dichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.46	1	11/02/18 11:39	11/02/18 15:19	156-60-5	
Dichlorofluoromethane	<b>4.3 U</b>	ug/kg	4.3	0.35	1	11/02/18 11:39	11/02/18 15:19	75-43-4	N2
1,2-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.26	1	11/02/18 11:39	11/02/18 15:19	78-87-5	
1,3-Dichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.39	1	11/02/18 11:39	11/02/18 15:19	142-28-9	
2,2-Dichloropropane	<b>10.7 U</b>	ug/kg	10.7	0.38	1	11/02/18 11:39	11/02/18 15:19	594-20-7	
1,1-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	11/02/18 11:39	11/02/18 15:19	563-58-6	
cis-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 15:19	10061-01-5	
trans-1,3-Dichloropropene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 15:19	10061-02-6	
Diethyl ether (Ethyl ether)	<b>10.7 U</b>	ug/kg	10.7	0.60	1	11/02/18 11:39	11/02/18 15:19	60-29-7	
Ethylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 15:19	100-41-4	
Hexachloro-1,3-butadiene	<b>10.7 U</b>	ug/kg	10.7	0.38	1	11/02/18 11:39	11/02/18 15:19	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-07C**      **Lab ID: 10452955033**      Collected: 10/23/18 13:00      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 15:19	98-82-8	
p-Isopropyltoluene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 15:19	99-87-6	
Methylene Chloride	<b>9.7J</b>	ug/kg	21.5	3.9	1	11/02/18 11:39	11/02/18 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>21.5 U</b>	ug/kg	21.5	1.5	1	11/02/18 11:39	11/02/18 15:19	108-10-1	
Methyl-tert-butyl ether	<b>4.3 U</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 15:19	1634-04-4	
Naphthalene	<b>10.7 U</b>	ug/kg	10.7	0.40	1	11/02/18 11:39	11/02/18 15:19	91-20-3	
n-Propylbenzene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 15:19	103-65-1	
Styrene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	11/02/18 11:39	11/02/18 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.30	1	11/02/18 11:39	11/02/18 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.3 U</b>	ug/kg	4.3	0.27	1	11/02/18 11:39	11/02/18 15:19	79-34-5	
Tetrachloroethene	<b>6.1</b>	ug/kg	4.3	0.33	1	11/02/18 11:39	11/02/18 15:19	127-18-4	
Tetrahydrofuran	<b>42.9 U</b>	ug/kg	42.9	4.3	1	11/02/18 11:39	11/02/18 15:19	109-99-9	
Toluene	<b>4.3 U</b>	ug/kg	4.3	1.0	1	11/02/18 11:39	11/02/18 15:19	108-88-3	
1,2,3-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.31	1	11/02/18 11:39	11/02/18 15:19	87-61-6	
1,2,4-Trichlorobenzene	<b>4.3 U</b>	ug/kg	4.3	0.39	1	11/02/18 11:39	11/02/18 15:19	120-82-1	
1,1,1-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.40	1	11/02/18 11:39	11/02/18 15:19	71-55-6	
1,1,2-Trichloroethane	<b>4.3 U</b>	ug/kg	4.3	0.51	1	11/02/18 11:39	11/02/18 15:19	79-00-5	
Trichloroethene	<b>4.3 U</b>	ug/kg	4.3	0.37	1	11/02/18 11:39	11/02/18 15:19	79-01-6	
Trichlorofluoromethane	<b>10.7 U</b>	ug/kg	10.7	0.48	1	11/02/18 11:39	11/02/18 15:19	75-69-4	
1,2,3-Trichloropropane	<b>4.3 U</b>	ug/kg	4.3	0.84	1	11/02/18 11:39	11/02/18 15:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.3 U</b>	ug/kg	4.3	1.1	1	11/02/18 11:39	11/02/18 15:19	76-13-1	
1,2,4-Trimethylbenzene	<b>0.97J</b>	ug/kg	4.3	0.45	1	11/02/18 11:39	11/02/18 15:19	95-63-6	
1,3,5-Trimethylbenzene	<b>0.43J</b>	ug/kg	4.3	0.41	1	11/02/18 11:39	11/02/18 15:19	108-67-8	
Vinyl chloride	<b>4.3 U</b>	ug/kg	4.3	0.32	1	11/02/18 11:39	11/02/18 15:19	75-01-4	
Xylene (Total)	<b>12.9 U</b>	ug/kg	12.9	0.68	1	11/02/18 11:39	11/02/18 15:19	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-126		1	11/02/18 11:39	11/02/18 15:19	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1	11/02/18 11:39	11/02/18 15:19	2037-26-5	
4-Bromofluorobenzene (S)	110	%	75-128		1	11/02/18 11:39	11/02/18 15:19	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: S-1801023-KJ-08C Lab ID: 10452955034 Collected: 10/23/18 13:15 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	2.2	%	0.10	0.10	1		11/07/18 17:09		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Acetone	22.8 U	ug/kg	22.8	10.4	1	11/02/18 11:39	11/02/18 15:00	67-64-1	
Allyl chloride	11.4 U	ug/kg	11.4	1.1	1	11/02/18 11:39	11/02/18 15:00	107-05-1	
Benzene	4.6 U	ug/kg	4.6	0.38	1	11/02/18 11:39	11/02/18 15:00	71-43-2	
Bromobenzene	4.6 U	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 15:00	108-86-1	
Bromochloromethane	4.6 U	ug/kg	4.6	0.93	1	11/02/18 11:39	11/02/18 15:00	74-97-5	
Bromodichloromethane	4.6 U	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 15:00	75-27-4	
Bromoform	22.8 U	ug/kg	22.8	0.40	1	11/02/18 11:39	11/02/18 15:00	75-25-2	
Bromomethane	22.8 U	ug/kg	22.8	0.32	1	11/02/18 11:39	11/02/18 15:00	74-83-9	
2-Butanone (MEK)	22.8 U	ug/kg	22.8	2.5	1	11/02/18 11:39	11/02/18 15:00	78-93-3	
n-Butylbenzene	4.6 U	ug/kg	4.6	0.32	1	11/02/18 11:39	11/02/18 15:00	104-51-8	
sec-Butylbenzene	4.6 U	ug/kg	4.6	0.36	1	11/02/18 11:39	11/02/18 15:00	135-98-8	
tert-Butylbenzene	4.6 U	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 15:00	98-06-6	
Carbon tetrachloride	4.6 U	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 15:00	56-23-5	
Chlorobenzene	4.6 U	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 15:00	108-90-7	
Chloroethane	11.4 U	ug/kg	11.4	0.33	1	11/02/18 11:39	11/02/18 15:00	75-00-3	
Chloroform	4.6 U	ug/kg	4.6	1.0	1	11/02/18 11:39	11/02/18 15:00	67-66-3	
Chloromethane	11.4 U	ug/kg	11.4	0.56	1	11/02/18 11:39	11/02/18 15:00	74-87-3	
2-Chlorotoluene	4.6 U	ug/kg	4.6	0.46	1	11/02/18 11:39	11/02/18 15:00	95-49-8	
4-Chlorotoluene	4.6 U	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	11.4 U	ug/kg	11.4	1.3	1	11/02/18 11:39	11/02/18 15:00	96-12-8	
Dibromochloromethane	4.6 U	ug/kg	4.6	0.30	1	11/02/18 11:39	11/02/18 15:00	124-48-1	
1,2-Dibromoethane (EDB)	4.6 U	ug/kg	4.6	0.26	1	11/02/18 11:39	11/02/18 15:00	106-93-4	
Dibromomethane	4.6 U	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 15:00	74-95-3	
1,2-Dichlorobenzene	4.6 U	ug/kg	4.6	0.46	1	11/02/18 11:39	11/02/18 15:00	95-50-1	
1,3-Dichlorobenzene	4.6 U	ug/kg	4.6	0.45	1	11/02/18 11:39	11/02/18 15:00	541-73-1	
1,4-Dichlorobenzene	4.6 U	ug/kg	4.6	0.47	1	11/02/18 11:39	11/02/18 15:00	106-46-7	
Dichlorodifluoromethane	11.4 U	ug/kg	11.4	0.51	1	11/02/18 11:39	11/02/18 15:00	75-71-8	
1,1-Dichloroethane	4.6 U	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 15:00	75-34-3	
1,2-Dichloroethane	4.6 U	ug/kg	4.6	0.28	1	11/02/18 11:39	11/02/18 15:00	107-06-2	
1,1-Dichloroethene	4.6 U	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 15:00	75-35-4	
cis-1,2-Dichloroethene	4.6 U	ug/kg	4.6	0.52	1	11/02/18 11:39	11/02/18 15:00	156-59-2	
trans-1,2-Dichloroethene	4.6 U	ug/kg	4.6	0.49	1	11/02/18 11:39	11/02/18 15:00	156-60-5	
Dichlorofluoromethane	4.6 U	ug/kg	4.6	0.37	1	11/02/18 11:39	11/02/18 15:00	75-43-4	N2
1,2-Dichloropropane	4.6 U	ug/kg	4.6	0.28	1	11/02/18 11:39	11/02/18 15:00	78-87-5	
1,3-Dichloropropane	4.6 U	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 15:00	142-28-9	
2,2-Dichloropropane	11.4 U	ug/kg	11.4	0.41	1	11/02/18 11:39	11/02/18 15:00	594-20-7	
1,1-Dichloropropene	4.6 U	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 15:00	563-58-6	
cis-1,3-Dichloropropene	4.6 U	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 15:00	10061-01-5	
trans-1,3-Dichloropropene	4.6 U	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 15:00	10061-02-6	
Diethyl ether (Ethyl ether)	11.4 U	ug/kg	11.4	0.64	1	11/02/18 11:39	11/02/18 15:00	60-29-7	
Ethylbenzene	4.6 U	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 15:00	100-41-4	
Hexachloro-1,3-butadiene	11.4 U	ug/kg	11.4	0.40	1	11/02/18 11:39	11/02/18 15:00	87-68-3	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-08C**      **Lab ID: 10452955034**      Collected: 10/23/18 13:15      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 15:00	98-82-8	
p-Isopropyltoluene	<b>4.6 U</b>	ug/kg	4.6	0.40	1	11/02/18 11:39	11/02/18 15:00	99-87-6	
Methylene Chloride	<b>13.5J</b>	ug/kg	22.8	4.2	1	11/02/18 11:39	11/02/18 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>22.8 U</b>	ug/kg	22.8	1.6	1	11/02/18 11:39	11/02/18 15:00	108-10-1	
Methyl-tert-butyl ether	<b>4.6 U</b>	ug/kg	4.6	0.35	1	11/02/18 11:39	11/02/18 15:00	1634-04-4	
Naphthalene	<b>11.4 U</b>	ug/kg	11.4	0.42	1	11/02/18 11:39	11/02/18 15:00	91-20-3	
n-Propylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 15:00	103-65-1	
Styrene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.32	1	11/02/18 11:39	11/02/18 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.6 U</b>	ug/kg	4.6	0.29	1	11/02/18 11:39	11/02/18 15:00	79-34-5	
Tetrachloroethene	<b>4.6 U</b>	ug/kg	4.6	0.34	1	11/02/18 11:39	11/02/18 15:00	127-18-4	
Tetrahydrofuran	<b>45.5 U</b>	ug/kg	45.5	4.6	1	11/02/18 11:39	11/02/18 15:00	109-99-9	
Toluene	<b>4.6 U</b>	ug/kg	4.6	1.1	1	11/02/18 11:39	11/02/18 15:00	108-88-3	
1,2,3-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 15:00	87-61-6	
1,2,4-Trichlorobenzene	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 15:00	120-82-1	
1,1,1-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.42	1	11/02/18 11:39	11/02/18 15:00	71-55-6	
1,1,2-Trichloroethane	<b>4.6 U</b>	ug/kg	4.6	0.54	1	11/02/18 11:39	11/02/18 15:00	79-00-5	
Trichloroethene	<b>4.6 U</b>	ug/kg	4.6	0.39	1	11/02/18 11:39	11/02/18 15:00	79-01-6	
Trichlorofluoromethane	<b>11.4 U</b>	ug/kg	11.4	0.51	1	11/02/18 11:39	11/02/18 15:00	75-69-4	
1,2,3-Trichloropropane	<b>4.6 U</b>	ug/kg	4.6	0.89	1	11/02/18 11:39	11/02/18 15:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.6 U</b>	ug/kg	4.6	1.1	1	11/02/18 11:39	11/02/18 15:00	76-13-1	
1,2,4-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.48	1	11/02/18 11:39	11/02/18 15:00	95-63-6	
1,3,5-Trimethylbenzene	<b>4.6 U</b>	ug/kg	4.6	0.44	1	11/02/18 11:39	11/02/18 15:00	108-67-8	
Vinyl chloride	<b>4.6 U</b>	ug/kg	4.6	0.33	1	11/02/18 11:39	11/02/18 15:00	75-01-4	
Xylene (Total)	<b>13.7 U</b>	ug/kg	13.7	0.72	1	11/02/18 11:39	11/02/18 15:00	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-126		1	11/02/18 11:39	11/02/18 15:00	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	11/02/18 11:39	11/02/18 15:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-128		1	11/02/18 11:39	11/02/18 15:00	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-09C**      **Lab ID: 10452955035**      Collected: 10/23/18 13:30      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Dry Weight / %M by ASTM D2974</b>		Analytical Method: ASTM D2974							
Percent Moisture	<b>7.0</b>	%	0.10	0.10	1		11/07/18 17:09		
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B      Preparation Method: EPA 5035 Low							
Acetone	<b>23.7 U</b>	ug/kg	23.7	10.8	1	11/02/18 11:39	11/02/18 14:41	67-64-1	
Allyl chloride	<b>11.8 U</b>	ug/kg	11.8	1.1	1	11/02/18 11:39	11/02/18 14:41	107-05-1	
Benzene	<b>4.7 U</b>	ug/kg	4.7	0.40	1	11/02/18 11:39	11/02/18 14:41	71-43-2	
Bromobenzene	<b>4.7 U</b>	ug/kg	4.7	0.40	1	11/02/18 11:39	11/02/18 14:41	108-86-1	
Bromochloromethane	<b>4.7 U</b>	ug/kg	4.7	0.97	1	11/02/18 11:39	11/02/18 14:41	74-97-5	
Bromodichloromethane	<b>4.7 U</b>	ug/kg	4.7	0.40	1	11/02/18 11:39	11/02/18 14:41	75-27-4	
Bromoform	<b>23.7 U</b>	ug/kg	23.7	0.42	1	11/02/18 11:39	11/02/18 14:41	75-25-2	
Bromomethane	<b>23.7 U</b>	ug/kg	23.7	0.34	1	11/02/18 11:39	11/02/18 14:41	74-83-9	
2-Butanone (MEK)	<b>23.7 U</b>	ug/kg	23.7	2.6	1	11/02/18 11:39	11/02/18 14:41	78-93-3	
n-Butylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.33	1	11/02/18 11:39	11/02/18 14:41	104-51-8	
sec-Butylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.37	1	11/02/18 11:39	11/02/18 14:41	135-98-8	
tert-Butylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.41	1	11/02/18 11:39	11/02/18 14:41	98-06-6	
Carbon tetrachloride	<b>4.7 U</b>	ug/kg	4.7	0.39	1	11/02/18 11:39	11/02/18 14:41	56-23-5	
Chlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.46	1	11/02/18 11:39	11/02/18 14:41	108-90-7	
Chloroethane	<b>11.8 U</b>	ug/kg	11.8	0.34	1	11/02/18 11:39	11/02/18 14:41	75-00-3	
Chloroform	<b>4.7 U</b>	ug/kg	4.7	1.0	1	11/02/18 11:39	11/02/18 14:41	67-66-3	
Chloromethane	<b>11.8 U</b>	ug/kg	11.8	0.58	1	11/02/18 11:39	11/02/18 14:41	74-87-3	
2-Chlorotoluene	<b>4.7 U</b>	ug/kg	4.7	0.48	1	11/02/18 11:39	11/02/18 14:41	95-49-8	
4-Chlorotoluene	<b>4.7 U</b>	ug/kg	4.7	0.49	1	11/02/18 11:39	11/02/18 14:41	106-43-4	
1,2-Dibromo-3-chloropropane	<b>11.8 U</b>	ug/kg	11.8	1.3	1	11/02/18 11:39	11/02/18 14:41	96-12-8	
Dibromochloromethane	<b>4.7 U</b>	ug/kg	4.7	0.31	1	11/02/18 11:39	11/02/18 14:41	124-48-1	
1,2-Dibromoethane (EDB)	<b>4.7 U</b>	ug/kg	4.7	0.27	1	11/02/18 11:39	11/02/18 14:41	106-93-4	
Dibromomethane	<b>4.7 U</b>	ug/kg	4.7	0.37	1	11/02/18 11:39	11/02/18 14:41	74-95-3	
1,2-Dichlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.48	1	11/02/18 11:39	11/02/18 14:41	95-50-1	
1,3-Dichlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.47	1	11/02/18 11:39	11/02/18 14:41	541-73-1	
1,4-Dichlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.49	1	11/02/18 11:39	11/02/18 14:41	106-46-7	
Dichlorodifluoromethane	<b>11.8 U</b>	ug/kg	11.8	0.53	1	11/02/18 11:39	11/02/18 14:41	75-71-8	
1,1-Dichloroethane	<b>4.7 U</b>	ug/kg	4.7	0.51	1	11/02/18 11:39	11/02/18 14:41	75-34-3	
1,2-Dichloroethane	<b>4.7 U</b>	ug/kg	4.7	0.30	1	11/02/18 11:39	11/02/18 14:41	107-06-2	
1,1-Dichloroethene	<b>4.7 U</b>	ug/kg	4.7	0.38	1	11/02/18 11:39	11/02/18 14:41	75-35-4	
cis-1,2-Dichloroethene	<b>4.7 U</b>	ug/kg	4.7	0.55	1	11/02/18 11:39	11/02/18 14:41	156-59-2	
trans-1,2-Dichloroethene	<b>4.7 U</b>	ug/kg	4.7	0.51	1	11/02/18 11:39	11/02/18 14:41	156-60-5	
Dichlorofluoromethane	<b>4.7 U</b>	ug/kg	4.7	0.39	1	11/02/18 11:39	11/02/18 14:41	75-43-4	N2
1,2-Dichloropropane	<b>4.7 U</b>	ug/kg	4.7	0.29	1	11/02/18 11:39	11/02/18 14:41	78-87-5	
1,3-Dichloropropane	<b>4.7 U</b>	ug/kg	4.7	0.44	1	11/02/18 11:39	11/02/18 14:41	142-28-9	
2,2-Dichloropropane	<b>11.8 U</b>	ug/kg	11.8	0.42	1	11/02/18 11:39	11/02/18 14:41	594-20-7	
1,1-Dichloropropene	<b>4.7 U</b>	ug/kg	4.7	0.43	1	11/02/18 11:39	11/02/18 14:41	563-58-6	
cis-1,3-Dichloropropene	<b>4.7 U</b>	ug/kg	4.7	0.35	1	11/02/18 11:39	11/02/18 14:41	10061-01-5	
trans-1,3-Dichloropropene	<b>4.7 U</b>	ug/kg	4.7	0.35	1	11/02/18 11:39	11/02/18 14:41	10061-02-6	
Diethyl ether (Ethyl ether)	<b>11.8 U</b>	ug/kg	11.8	0.67	1	11/02/18 11:39	11/02/18 14:41	60-29-7	
Ethylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.36	1	11/02/18 11:39	11/02/18 14:41	100-41-4	
Hexachloro-1,3-butadiene	<b>11.8 U</b>	ug/kg	11.8	0.42	1	11/02/18 11:39	11/02/18 14:41	87-68-3	

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S-1801023-KJ-09C**      **Lab ID: 10452955035**      Collected: 10/23/18 13:30      Received: 10/24/18 14:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
Isopropylbenzene (Cumene)	<b>4.7 U</b>	ug/kg	4.7	0.36	1	11/02/18 11:39	11/02/18 14:41	98-82-8	
p-Isopropyltoluene	<b>4.7 U</b>	ug/kg	4.7	0.41	1	11/02/18 11:39	11/02/18 14:41	99-87-6	
Methylene Chloride	<b>16.4J</b>	ug/kg	23.7	4.3	1	11/02/18 11:39	11/02/18 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>23.7 U</b>	ug/kg	23.7	1.6	1	11/02/18 11:39	11/02/18 14:41	108-10-1	
Methyl-tert-butyl ether	<b>4.7 U</b>	ug/kg	4.7	0.36	1	11/02/18 11:39	11/02/18 14:41	1634-04-4	
Naphthalene	<b>11.8 U</b>	ug/kg	11.8	0.44	1	11/02/18 11:39	11/02/18 14:41	91-20-3	
n-Propylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.41	1	11/02/18 11:39	11/02/18 14:41	103-65-1	
Styrene	<b>4.7 U</b>	ug/kg	4.7	0.34	1	11/02/18 11:39	11/02/18 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.7 U</b>	ug/kg	4.7	0.33	1	11/02/18 11:39	11/02/18 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.7 U</b>	ug/kg	4.7	0.30	1	11/02/18 11:39	11/02/18 14:41	79-34-5	
Tetrachloroethene	<b>4.7 U</b>	ug/kg	4.7	0.36	1	11/02/18 11:39	11/02/18 14:41	127-18-4	
Tetrahydrofuran	<b>47.4 U</b>	ug/kg	47.4	4.8	1	11/02/18 11:39	11/02/18 14:41	109-99-9	
Toluene	<b>4.7 U</b>	ug/kg	4.7	1.1	1	11/02/18 11:39	11/02/18 14:41	108-88-3	
1,2,3-Trichlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.34	1	11/02/18 11:39	11/02/18 14:41	87-61-6	
1,2,4-Trichlorobenzene	<b>4.7 U</b>	ug/kg	4.7	0.43	1	11/02/18 11:39	11/02/18 14:41	120-82-1	
1,1,1-Trichloroethane	<b>4.7 U</b>	ug/kg	4.7	0.44	1	11/02/18 11:39	11/02/18 14:41	71-55-6	
1,1,2-Trichloroethane	<b>4.7 U</b>	ug/kg	4.7	0.56	1	11/02/18 11:39	11/02/18 14:41	79-00-5	
Trichloroethene	<b>4.7 U</b>	ug/kg	4.7	0.41	1	11/02/18 11:39	11/02/18 14:41	79-01-6	
Trichlorofluoromethane	<b>11.8 U</b>	ug/kg	11.8	0.53	1	11/02/18 11:39	11/02/18 14:41	75-69-4	
1,2,3-Trichloropropane	<b>4.7 U</b>	ug/kg	4.7	0.92	1	11/02/18 11:39	11/02/18 14:41	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.7 U</b>	ug/kg	4.7	1.2	1	11/02/18 11:39	11/02/18 14:41	76-13-1	
1,2,4-Trimethylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.50	1	11/02/18 11:39	11/02/18 14:41	95-63-6	
1,3,5-Trimethylbenzene	<b>4.7 U</b>	ug/kg	4.7	0.46	1	11/02/18 11:39	11/02/18 14:41	108-67-8	
Vinyl chloride	<b>4.7 U</b>	ug/kg	4.7	0.35	1	11/02/18 11:39	11/02/18 14:41	75-01-4	
Xylene (Total)	<b>14.2 U</b>	ug/kg	14.2	0.75	1	11/02/18 11:39	11/02/18 14:41	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	96	%	75-126		1	11/02/18 11:39	11/02/18 14:41	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1	11/02/18 11:39	11/02/18 14:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-128		1	11/02/18 11:39	11/02/18 14:41	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-01**      **Lab ID: 10452955043**      Collected: 10/23/18 10:55      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Acetone	<b>20.0 U</b>	ug/L	20.0	9.2	1		10/31/18 17:39	67-64-1	
Allyl chloride	<b>4.0 U</b>	ug/L	4.0	0.29	1		10/31/18 17:39	107-05-1	
Benzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		10/31/18 17:39	71-43-2	
Bromobenzene	<b>0.50 U</b>	ug/L	0.50	0.21	1		10/31/18 17:39	108-86-1	
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.27	1		10/31/18 17:39	74-97-5	
Bromodichloromethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 17:39	75-27-4	
Bromoform	<b>4.0 U</b>	ug/L	4.0	0.80	1		10/31/18 17:39	75-25-2	
Bromomethane	<b>4.0 U</b>	ug/L	4.0	1.8	1		10/31/18 17:39	74-83-9	
2-Butanone (MEK)	<b>5.0 U</b>	ug/L	5.0	0.99	1		10/31/18 17:39	78-93-3	
n-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.24	1		10/31/18 17:39	104-51-8	
sec-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.15	1		10/31/18 17:39	135-98-8	
tert-Butylbenzene	<b>0.50 U</b>	ug/L	0.50	0.15	1		10/31/18 17:39	98-06-6	
Carbon tetrachloride	<b>0.50 U</b>	ug/L	0.50	0.19	1		10/31/18 17:39	56-23-5	
Chlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 17:39	108-90-7	
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.49	1		10/31/18 17:39	75-00-3	
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.45	1		10/31/18 17:39	67-66-3	
Chloromethane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 17:39	74-87-3	
2-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 17:39	95-49-8	
4-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.13	1		10/31/18 17:39	106-43-4	
1,2-Dibromo-3-chloropropane	<b>4.0 U</b>	ug/L	4.0	1.7	1		10/31/18 17:39	96-12-8	
Dibromochloromethane	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 17:39	124-48-1	
1,2-Dibromoethane (EDB)	<b>0.50 U</b>	ug/L	0.50	0.24	1		10/31/18 17:39	106-93-4	
Dibromomethane	<b>1.0 U</b>	ug/L	1.0	0.16	1		10/31/18 17:39	74-95-3	
1,2-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 17:39	95-50-1	
1,3-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 17:39	541-73-1	
1,4-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 17:39	106-46-7	
Dichlorodifluoromethane	<b>1.0 U</b>	ug/L	1.0	0.23	1		10/31/18 17:39	75-71-8	
1,1-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 17:39	75-34-3	
1,2-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 17:39	107-06-2	
1,1-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 17:39	75-35-4	
cis-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.15	1		10/31/18 17:39	156-59-2	
trans-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 17:39	156-60-5	
Dichlorofluoromethane	<b>1.0 U</b>	ug/L	1.0	0.14	1		10/31/18 17:39	75-43-4	N2
1,2-Dichloropropane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 17:39	78-87-5	
1,3-Dichloropropane	<b>0.50 U</b>	ug/L	0.50	0.070	1		10/31/18 17:39	142-28-9	
2,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.17	1		10/31/18 17:39	594-20-7	
1,1-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 17:39	563-58-6	
cis-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 17:39	10061-01-5	
trans-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 17:39	10061-02-6	
Diethyl ether (Ethyl ether)	<b>4.0 U</b>	ug/L	4.0	0.095	1		10/31/18 17:39	60-29-7	
Ethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 17:39	100-41-4	
Hexachloro-1,3-butadiene	<b>1.0 U</b>	ug/L	1.0	0.31	1		10/31/18 17:39	87-68-3	
Isopropylbenzene (Cumene)	<b>1.0 U</b>	ug/L	1.0	0.18	1		10/31/18 17:39	98-82-8	
p-Isopropyltoluene	<b>6.9</b>	ug/L	1.0	0.15	1		10/31/18 17:39	99-87-6	
Methylene Chloride	<b>4.0 U</b>	ug/L	4.0	0.98	1		10/31/18 17:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>5.0 U</b>	ug/L	5.0	0.42	1		10/31/18 17:39	108-10-1	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-01**      **Lab ID: 10452955043**      Collected: 10/23/18 10:55      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Methyl-tert-butyl ether	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 17:39	1634-04-4	
Naphthalene	<b>1.0 U</b>	ug/L	1.0	0.48	1		10/31/18 17:39	91-20-3	
n-Propylbenzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		10/31/18 17:39	103-65-1	
Styrene	<b>1.0 U</b>	ug/L	1.0	0.19	1		10/31/18 17:39	100-42-5	
1,1,1,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 17:39	630-20-6	
1,1,2,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 17:39	79-34-5	
Tetrachloroethene	<b>2.0</b>	ug/L	0.50	0.17	1		10/31/18 17:39	127-18-4	
Tetrahydrofuran	<b>10.0 U</b>	ug/L	10.0	2.2	1		10/31/18 17:39	109-99-9	
Toluene	<b>0.50 U</b>	ug/L	0.50	0.083	1		10/31/18 17:39	108-88-3	
1,2,3-Trichlorobenzene	<b>4.0 U</b>	ug/L	4.0	0.21	1		10/31/18 17:39	87-61-6	
1,2,4-Trichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 17:39	120-82-1	
1,1,1-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 17:39	71-55-6	
1,1,2-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 17:39	79-00-5	
Trichloroethene	<b>0.40 U</b>	ug/L	0.40	0.15	1		10/31/18 17:39	79-01-6	
Trichlorofluoromethane	<b>0.50 U</b>	ug/L	0.50	0.23	1		10/31/18 17:39	75-69-4	
1,2,3-Trichloropropane	<b>4.0 U</b>	ug/L	4.0	0.26	1		10/31/18 17:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>1.0 U</b>	ug/L	1.0	0.22	1		10/31/18 17:39	76-13-1	
1,2,4-Trimethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.20	1		10/31/18 17:39	95-63-6	
1,3,5-Trimethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 17:39	108-67-8	
Vinyl chloride	<b>0.20 U</b>	ug/L	0.20	0.092	1		10/31/18 17:39	75-01-4	
Xylene (Total)	<b>1.5 U</b>	ug/L	1.5	0.31	1		10/31/18 17:39	1330-20-7	
m&p-Xylene	<b>1.0 U</b>	ug/L	1.0	0.31	1		10/31/18 17:39	179601-23-1	
o-Xylene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 17:39	95-47-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		10/31/18 17:39	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1		10/31/18 17:39	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		10/31/18 17:39	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-02**      **Lab ID: 10452955044**      Collected: 10/23/18 13:45      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Acetone	<b>20.0 U</b>	ug/L	20.0	9.2	1		10/31/18 18:03	67-64-1	
Allyl chloride	<b>4.0 U</b>	ug/L	4.0	0.29	1		10/31/18 18:03	107-05-1	
Benzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		10/31/18 18:03	71-43-2	
Bromobenzene	<b>0.50 U</b>	ug/L	0.50	0.21	1		10/31/18 18:03	108-86-1	
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.27	1		10/31/18 18:03	74-97-5	
Bromodichloromethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 18:03	75-27-4	
Bromoform	<b>4.0 U</b>	ug/L	4.0	0.80	1		10/31/18 18:03	75-25-2	
Bromomethane	<b>4.0 U</b>	ug/L	4.0	1.8	1		10/31/18 18:03	74-83-9	
2-Butanone (MEK)	<b>1.5J</b>	ug/L	5.0	0.99	1		10/31/18 18:03	78-93-3	
n-Butylbenzene	<b>28.4</b>	ug/L	1.0	0.24	1		10/31/18 18:03	104-51-8	
sec-Butylbenzene	<b>55.5</b>	ug/L	1.0	0.15	1		10/31/18 18:03	135-98-8	
tert-Butylbenzene	<b>13.3</b>	ug/L	0.50	0.15	1		10/31/18 18:03	98-06-6	
Carbon tetrachloride	<b>0.50 U</b>	ug/L	0.50	0.19	1		10/31/18 18:03	56-23-5	
Chlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 18:03	108-90-7	
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.49	1		10/31/18 18:03	75-00-3	
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.45	1		10/31/18 18:03	67-66-3	
Chloromethane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 18:03	74-87-3	
2-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 18:03	95-49-8	
4-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.13	1		10/31/18 18:03	106-43-4	
1,2-Dibromo-3-chloropropane	<b>4.0 U</b>	ug/L	4.0	1.7	1		10/31/18 18:03	96-12-8	
Dibromochloromethane	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 18:03	124-48-1	
1,2-Dibromoethane (EDB)	<b>0.50 U</b>	ug/L	0.50	0.24	1		10/31/18 18:03	106-93-4	
Dibromomethane	<b>1.0 U</b>	ug/L	1.0	0.16	1		10/31/18 18:03	74-95-3	
1,2-Dichlorobenzene	<b>0.29J</b>	ug/L	0.50	0.14	1		10/31/18 18:03	95-50-1	
1,3-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 18:03	541-73-1	
1,4-Dichlorobenzene	<b>0.18J</b>	ug/L	0.50	0.17	1		10/31/18 18:03	106-46-7	
Dichlorodifluoromethane	<b>1.0 U</b>	ug/L	1.0	0.23	1		10/31/18 18:03	75-71-8	
1,1-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 18:03	75-34-3	
1,2-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 18:03	107-06-2	
1,1-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 18:03	75-35-4	
cis-1,2-Dichloroethene	<b>25.9</b>	ug/L	0.50	0.15	1		10/31/18 18:03	156-59-2	
trans-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 18:03	156-60-5	
Dichlorofluoromethane	<b>1.0 U</b>	ug/L	1.0	0.14	1		10/31/18 18:03	75-43-4	N2
1,2-Dichloropropane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 18:03	78-87-5	
1,3-Dichloropropane	<b>0.50 U</b>	ug/L	0.50	0.070	1		10/31/18 18:03	142-28-9	
2,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.17	1		10/31/18 18:03	594-20-7	
1,1-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 18:03	563-58-6	
cis-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 18:03	10061-01-5	
trans-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 18:03	10061-02-6	
Diethyl ether (Ethyl ether)	<b>4.0 U</b>	ug/L	4.0	0.095	1		10/31/18 18:03	60-29-7	
Ethylbenzene	<b>66.7</b>	ug/L	0.50	0.14	1		10/31/18 18:03	100-41-4	
Hexachloro-1,3-butadiene	<b>1.0 U</b>	ug/L	1.0	0.31	1		10/31/18 18:03	87-68-3	
Isopropylbenzene (Cumene)	<b>84.0</b>	ug/L	1.0	0.18	1		10/31/18 18:03	98-82-8	
p-Isopropyltoluene	<b>63.4</b>	ug/L	1.0	0.15	1		10/31/18 18:03	99-87-6	
Methylene Chloride	<b>4.0 U</b>	ug/L	4.0	0.98	1		10/31/18 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>5.0 U</b>	ug/L	5.0	0.42	1		10/31/18 18:03	108-10-1	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-02**      **Lab ID: 10452955044**      Collected: 10/23/18 13:45      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Methyl-tert-butyl ether	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 18:03	1634-04-4	
Naphthalene	<b>32.9</b>	ug/L	1.0	0.48	1		10/31/18 18:03	91-20-3	
n-Propylbenzene	<b>204</b>	ug/L	0.50	0.10	1		10/31/18 18:03	103-65-1	
Styrene	<b>1.0 U</b>	ug/L	1.0	0.19	1		10/31/18 18:03	100-42-5	
1,1,1,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 18:03	630-20-6	
1,1,2,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 18:03	79-34-5	
Tetrachloroethene	<b>4.3</b>	ug/L	0.50	0.17	1		10/31/18 18:03	127-18-4	
Tetrahydrofuran	<b>10.0 U</b>	ug/L	10.0	2.2	1		10/31/18 18:03	109-99-9	
Toluene	<b>3.7</b>	ug/L	0.50	0.083	1		10/31/18 18:03	108-88-3	
1,2,3-Trichlorobenzene	<b>4.0 U</b>	ug/L	4.0	0.21	1		10/31/18 18:03	87-61-6	
1,2,4-Trichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 18:03	120-82-1	
1,1,1-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 18:03	71-55-6	
1,1,2-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 18:03	79-00-5	
Trichloroethene	<b>3.9</b>	ug/L	0.40	0.15	1		10/31/18 18:03	79-01-6	
Trichlorofluoromethane	<b>0.50 U</b>	ug/L	0.50	0.23	1		10/31/18 18:03	75-69-4	
1,2,3-Trichloropropane	<b>4.0 U</b>	ug/L	4.0	0.26	1		10/31/18 18:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>1.0 U</b>	ug/L	1.0	0.22	1		10/31/18 18:03	76-13-1	
1,2,4-Trimethylbenzene	<b>2110</b>	ug/L	10.0	3.9	20		11/01/18 09:07	95-63-6	
1,3,5-Trimethylbenzene	<b>573</b>	ug/L	10.0	2.4	20		11/01/18 09:07	108-67-8	
Vinyl chloride	<b>0.20 U</b>	ug/L	0.20	0.092	1		10/31/18 18:03	75-01-4	
Xylene (Total)	<b>246</b>	ug/L	30.0	6.2	20		11/01/18 09:07	1330-20-7	
m&p-Xylene	<b>234</b>	ug/L	20.0	6.2	20		11/01/18 09:07	179601-23-1	
o-Xylene	<b>11.3</b>	ug/L	0.50	0.16	1		10/31/18 18:03	95-47-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		10/31/18 18:03	17060-07-0	
Toluene-d8 (S)	94	%	75-125		1		10/31/18 18:03	2037-26-5	
4-Bromofluorobenzene (S)	94	%	75-125		1		10/31/18 18:03	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-03**      **Lab ID: 10452955045**      Collected: 10/23/18 14:20      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Acetone	<b>20.0 U</b>	ug/L	20.0	9.2	1		11/06/18 11:38	67-64-1	
Allyl chloride	<b>4.0 U</b>	ug/L	4.0	0.29	1		11/06/18 11:38	107-05-1	L2
Benzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		11/06/18 11:38	71-43-2	
Bromobenzene	<b>0.50 U</b>	ug/L	0.50	0.21	1		11/06/18 11:38	108-86-1	
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.27	1		11/06/18 11:38	74-97-5	
Bromodichloromethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		11/06/18 11:38	75-27-4	
Bromoform	<b>4.0 U</b>	ug/L	4.0	0.80	1		11/06/18 11:38	75-25-2	
Bromomethane	<b>4.0 U</b>	ug/L	4.0	1.8	1		11/06/18 11:38	74-83-9	
2-Butanone (MEK)	<b>5.0 U</b>	ug/L	5.0	0.99	1		11/06/18 11:38	78-93-3	
n-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.24	1		11/06/18 11:38	104-51-8	
sec-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.15	1		11/06/18 11:38	135-98-8	
tert-Butylbenzene	<b>0.50 U</b>	ug/L	0.50	0.15	1		11/06/18 11:38	98-06-6	
Carbon tetrachloride	<b>0.50 U</b>	ug/L	0.50	0.19	1		11/06/18 11:38	56-23-5	
Chlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		11/06/18 11:38	108-90-7	
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.49	1		11/06/18 11:38	75-00-3	
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.45	1		11/06/18 11:38	67-66-3	
Chloromethane	<b>4.0 U</b>	ug/L	4.0	0.16	1		11/06/18 11:38	74-87-3	
2-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.16	1		11/06/18 11:38	95-49-8	
4-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.13	1		11/06/18 11:38	106-43-4	
1,2-Dibromo-3-chloropropane	<b>4.0 U</b>	ug/L	4.0	1.7	1		11/06/18 11:38	96-12-8	
Dibromochloromethane	<b>0.50 U</b>	ug/L	0.50	0.12	1		11/06/18 11:38	124-48-1	
1,2-Dibromoethane (EDB)	<b>0.50 U</b>	ug/L	0.50	0.24	1		11/06/18 11:38	106-93-4	
Dibromomethane	<b>1.0 U</b>	ug/L	1.0	0.16	1		11/06/18 11:38	74-95-3	
1,2-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		11/06/18 11:38	95-50-1	
1,3-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.16	1		11/06/18 11:38	541-73-1	
1,4-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		11/06/18 11:38	106-46-7	
Dichlorodifluoromethane	<b>1.0 U</b>	ug/L	1.0	0.23	1		11/06/18 11:38	75-71-8	
1,1-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		11/06/18 11:38	75-34-3	
1,2-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		11/06/18 11:38	107-06-2	
1,1-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.16	1		11/06/18 11:38	75-35-4	
cis-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.15	1		11/06/18 11:38	156-59-2	
trans-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.12	1		11/06/18 11:38	156-60-5	
Dichlorofluoromethane	<b>1.0 U</b>	ug/L	1.0	0.14	1		11/06/18 11:38	75-43-4	N2
1,2-Dichloropropane	<b>4.0 U</b>	ug/L	4.0	0.16	1		11/06/18 11:38	78-87-5	
1,3-Dichloropropane	<b>0.50 U</b>	ug/L	0.50	0.070	1		11/06/18 11:38	142-28-9	
2,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.17	1		11/06/18 11:38	594-20-7	
1,1-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		11/06/18 11:38	563-58-6	
cis-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		11/06/18 11:38	10061-01-5	
trans-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.18	1		11/06/18 11:38	10061-02-6	
Diethyl ether (Ethyl ether)	<b>4.0 U</b>	ug/L	4.0	0.095	1		11/06/18 11:38	60-29-7	
Ethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		11/06/18 11:38	100-41-4	
Hexachloro-1,3-butadiene	<b>1.0 U</b>	ug/L	1.0	0.31	1		11/06/18 11:38	87-68-3	
Isopropylbenzene (Cumene)	<b>1.0 U</b>	ug/L	1.0	0.18	1		11/06/18 11:38	98-82-8	
p-Isopropyltoluene	<b>1.0 U</b>	ug/L	1.0	0.15	1		11/06/18 11:38	99-87-6	
Methylene Chloride	<b>4.0 U</b>	ug/L	4.0	0.98	1		11/06/18 11:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>5.0 U</b>	ug/L	5.0	0.42	1		11/06/18 11:38	108-10-1	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W-181023-KS-03**      **Lab ID: 10452955045**      Collected: 10/23/18 14:20      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Methyl-tert-butyl ether	<b>0.50 U</b>	ug/L	0.50	0.16	1		11/06/18 11:38	1634-04-4	
Naphthalene	<b>1.0 U</b>	ug/L	1.0	0.48	1		11/06/18 11:38	91-20-3	
n-Propylbenzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		11/06/18 11:38	103-65-1	
Styrene	<b>1.0 U</b>	ug/L	1.0	0.19	1		11/06/18 11:38	100-42-5	
1,1,1,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.20	1		11/06/18 11:38	630-20-6	
1,1,2,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		11/06/18 11:38	79-34-5	
Tetrachloroethene	<b>0.88</b>	ug/L	0.50	0.17	1		11/06/18 11:38	127-18-4	
Tetrahydrofuran	<b>10.0 U</b>	ug/L	10.0	2.2	1		11/06/18 11:38	109-99-9	
Toluene	<b>0.50 U</b>	ug/L	0.50	0.083	1		11/06/18 11:38	108-88-3	
1,2,3-Trichlorobenzene	<b>4.0 U</b>	ug/L	4.0	0.21	1		11/06/18 11:38	87-61-6	
1,2,4-Trichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.20	1		11/06/18 11:38	120-82-1	
1,1,1-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.14	1		11/06/18 11:38	71-55-6	
1,1,2-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.18	1		11/06/18 11:38	79-00-5	
Trichloroethene	<b>0.40 U</b>	ug/L	0.40	0.15	1		11/06/18 11:38	79-01-6	
Trichlorofluoromethane	<b>0.32J</b>	ug/L	0.50	0.23	1		11/06/18 11:38	75-69-4	
1,2,3-Trichloropropane	<b>4.0 U</b>	ug/L	4.0	0.26	1		11/06/18 11:38	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>1.0 U</b>	ug/L	1.0	0.22	1		11/06/18 11:38	76-13-1	
1,2,4-Trimethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.20	1		11/06/18 11:38	95-63-6	
1,3,5-Trimethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.12	1		11/06/18 11:38	108-67-8	
Vinyl chloride	<b>0.20 U</b>	ug/L	0.20	0.092	1		11/06/18 11:38	75-01-4	
Xylene (Total)	<b>1.5 U</b>	ug/L	1.5	0.31	1		11/06/18 11:38	1330-20-7	
m&p-Xylene	<b>1.0 U</b>	ug/L	1.0	0.31	1		11/06/18 11:38	179601-23-1	
o-Xylene	<b>0.50 U</b>	ug/L	0.50	0.16	1		11/06/18 11:38	95-47-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		11/06/18 11:38	17060-07-0	
Toluene-d8 (S)	104	%	75-125		1		11/06/18 11:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	75-125		1		11/06/18 11:38	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W TRIP BLANK**      **Lab ID: 10452955046**      Collected: 10/23/18 00:00      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Acetone	<b>20.0 U</b>	ug/L	20.0	9.2	1		10/31/18 12:03	67-64-1	
Allyl chloride	<b>4.0 U</b>	ug/L	4.0	0.29	1		10/31/18 12:03	107-05-1	
Benzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		10/31/18 12:03	71-43-2	
Bromobenzene	<b>0.50 U</b>	ug/L	0.50	0.21	1		10/31/18 12:03	108-86-1	
Bromochloromethane	<b>1.0 U</b>	ug/L	1.0	0.27	1		10/31/18 12:03	74-97-5	
Bromodichloromethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 12:03	75-27-4	
Bromoform	<b>4.0 U</b>	ug/L	4.0	0.80	1		10/31/18 12:03	75-25-2	
Bromomethane	<b>4.0 U</b>	ug/L	4.0	1.8	1		10/31/18 12:03	74-83-9	
2-Butanone (MEK)	<b>5.0 U</b>	ug/L	5.0	0.99	1		10/31/18 12:03	78-93-3	
n-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.24	1		10/31/18 12:03	104-51-8	
sec-Butylbenzene	<b>1.0 U</b>	ug/L	1.0	0.15	1		10/31/18 12:03	135-98-8	
tert-Butylbenzene	<b>0.50 U</b>	ug/L	0.50	0.15	1		10/31/18 12:03	98-06-6	
Carbon tetrachloride	<b>0.50 U</b>	ug/L	0.50	0.19	1		10/31/18 12:03	56-23-5	
Chlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 12:03	108-90-7	
Chloroethane	<b>1.0 U</b>	ug/L	1.0	0.49	1		10/31/18 12:03	75-00-3	
Chloroform	<b>1.0 U</b>	ug/L	1.0	0.45	1		10/31/18 12:03	67-66-3	
Chloromethane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 12:03	74-87-3	
2-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 12:03	95-49-8	
4-Chlorotoluene	<b>0.50 U</b>	ug/L	0.50	0.13	1		10/31/18 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	<b>4.0 U</b>	ug/L	4.0	1.7	1		10/31/18 12:03	96-12-8	
Dibromochloromethane	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 12:03	124-48-1	
1,2-Dibromoethane (EDB)	<b>0.50 U</b>	ug/L	0.50	0.24	1		10/31/18 12:03	106-93-4	
Dibromomethane	<b>1.0 U</b>	ug/L	1.0	0.16	1		10/31/18 12:03	74-95-3	
1,2-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 12:03	95-50-1	
1,3-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 12:03	541-73-1	
1,4-Dichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 12:03	106-46-7	
Dichlorodifluoromethane	<b>1.0 U</b>	ug/L	1.0	0.23	1		10/31/18 12:03	75-71-8	
1,1-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 12:03	75-34-3	
1,2-Dichloroethane	<b>0.50 U</b>	ug/L	0.50	0.22	1		10/31/18 12:03	107-06-2	
1,1-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 12:03	75-35-4	
cis-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.15	1		10/31/18 12:03	156-59-2	
trans-1,2-Dichloroethene	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 12:03	156-60-5	
Dichlorofluoromethane	<b>1.0 U</b>	ug/L	1.0	0.14	1		10/31/18 12:03	75-43-4	N2
1,2-Dichloropropane	<b>4.0 U</b>	ug/L	4.0	0.16	1		10/31/18 12:03	78-87-5	
1,3-Dichloropropane	<b>0.50 U</b>	ug/L	0.50	0.070	1		10/31/18 12:03	142-28-9	
2,2-Dichloropropane	<b>1.0 U</b>	ug/L	1.0	0.17	1		10/31/18 12:03	594-20-7	
1,1-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 12:03	563-58-6	
cis-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 12:03	10061-01-5	
trans-1,3-Dichloropropene	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 12:03	10061-02-6	
Diethyl ether (Ethyl ether)	<b>4.0 U</b>	ug/L	4.0	0.095	1		10/31/18 12:03	60-29-7	
Ethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 12:03	100-41-4	
Hexachloro-1,3-butadiene	<b>1.0 U</b>	ug/L	1.0	0.31	1		10/31/18 12:03	87-68-3	
Isopropylbenzene (Cumene)	<b>1.0 U</b>	ug/L	1.0	0.18	1		10/31/18 12:03	98-82-8	
p-Isopropyltoluene	<b>1.0 U</b>	ug/L	1.0	0.15	1		10/31/18 12:03	99-87-6	
Methylene Chloride	<b>4.0 U</b>	ug/L	4.0	0.98	1		10/31/18 12:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>5.0 U</b>	ug/L	5.0	0.42	1		10/31/18 12:03	108-10-1	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: W TRIP BLANK**      **Lab ID: 10452955046**      Collected: 10/23/18 00:00      Received: 10/24/18 14:00      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV Low Level</b>		Analytical Method: EPA 8260B							
Methyl-tert-butyl ether	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 12:03	1634-04-4	
Naphthalene	<b>1.0 U</b>	ug/L	1.0	0.48	1		10/31/18 12:03	91-20-3	
n-Propylbenzene	<b>0.50 U</b>	ug/L	0.50	0.10	1		10/31/18 12:03	103-65-1	
Styrene	<b>1.0 U</b>	ug/L	1.0	0.19	1		10/31/18 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 12:03	79-34-5	
Tetrachloroethene	<b>0.50 U</b>	ug/L	0.50	0.17	1		10/31/18 12:03	127-18-4	
Tetrahydrofuran	<b>10.0 U</b>	ug/L	10.0	2.2	1		10/31/18 12:03	109-99-9	
Toluene	<b>0.50 U</b>	ug/L	0.50	0.083	1		10/31/18 12:03	108-88-3	
1,2,3-Trichlorobenzene	<b>4.0 U</b>	ug/L	4.0	0.21	1		10/31/18 12:03	87-61-6	
1,2,4-Trichlorobenzene	<b>0.50 U</b>	ug/L	0.50	0.20	1		10/31/18 12:03	120-82-1	
1,1,1-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.14	1		10/31/18 12:03	71-55-6	
1,1,2-Trichloroethane	<b>0.50 U</b>	ug/L	0.50	0.18	1		10/31/18 12:03	79-00-5	
Trichloroethene	<b>0.40 U</b>	ug/L	0.40	0.15	1		10/31/18 12:03	79-01-6	
Trichlorofluoromethane	<b>0.50 U</b>	ug/L	0.50	0.23	1		10/31/18 12:03	75-69-4	
1,2,3-Trichloropropane	<b>4.0 U</b>	ug/L	4.0	0.26	1		10/31/18 12:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>1.0 U</b>	ug/L	1.0	0.22	1		10/31/18 12:03	76-13-1	
1,2,4-Trimethylbenzene	<b>1.0 U</b>	ug/L	1.0	0.20	1		10/31/18 12:03	95-63-6	
1,3,5-Trimethylbenzene	<b>0.50 U</b>	ug/L	0.50	0.12	1		10/31/18 12:03	108-67-8	
Vinyl chloride	<b>0.20 U</b>	ug/L	0.20	0.092	1		10/31/18 12:03	75-01-4	
Xylene (Total)	<b>1.5 U</b>	ug/L	1.5	0.31	1		10/31/18 12:03	1330-20-7	
m&p-Xylene	<b>1.0 U</b>	ug/L	1.0	0.31	1		10/31/18 12:03	179601-23-1	
o-Xylene	<b>0.50 U</b>	ug/L	0.50	0.16	1		10/31/18 12:03	95-47-6	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		10/31/18 12:03	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1		10/31/18 12:03	2037-26-5	
4-Bromofluorobenzene (S)	104	%	75-125		1		10/31/18 12:03	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S TRIP BLANK**      **Lab ID: 10452955047**      Collected: 10/23/18 00:00      Received: 10/24/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	<b>1000 U</b>	ug/kg	1000	311	1	11/02/18 14:01	11/02/18 17:31	67-64-1	
Allyl chloride	<b>200 U</b>	ug/kg	200	41.9	1	11/02/18 14:01	11/02/18 17:31	107-05-1	
Benzene	<b>20.0 U</b>	ug/kg	20.0	2.8	1	11/02/18 14:01	11/02/18 17:31	71-43-2	
Bromobenzene	<b>50.0 U</b>	ug/kg	50.0	3.1	1	11/02/18 14:01	11/02/18 17:31	108-86-1	
Bromochloromethane	<b>50.0 U</b>	ug/kg	50.0	17.3	1	11/02/18 14:01	11/02/18 17:31	74-97-5	
Bromodichloromethane	<b>50.0 U</b>	ug/kg	50.0	17.1	1	11/02/18 14:01	11/02/18 17:31	75-27-4	
Bromoform	<b>200 U</b>	ug/kg	200	75.7	1	11/02/18 14:01	11/02/18 17:31	75-25-2	
Bromomethane	<b>500 U</b>	ug/kg	500	58.5	1	11/02/18 14:01	11/02/18 17:31	74-83-9	
2-Butanone (MEK)	<b>250 U</b>	ug/kg	250	26.6	1	11/02/18 14:01	11/02/18 17:31	78-93-3	
n-Butylbenzene	<b>50.0 U</b>	ug/kg	50.0	23.8	1	11/02/18 14:01	11/02/18 17:31	104-51-8	
sec-Butylbenzene	<b>50.0 U</b>	ug/kg	50.0	9.6	1	11/02/18 14:01	11/02/18 17:31	135-98-8	
tert-Butylbenzene	<b>50.0 U</b>	ug/kg	50.0	9.6	1	11/02/18 14:01	11/02/18 17:31	98-06-6	
Carbon tetrachloride	<b>50.0 U</b>	ug/kg	50.0	23.9	1	11/02/18 14:01	11/02/18 17:31	56-23-5	
Chlorobenzene	<b>50.0 U</b>	ug/kg	50.0	2.8	1	11/02/18 14:01	11/02/18 17:31	108-90-7	
Chloroethane	<b>500 U</b>	ug/kg	500	26.0	1	11/02/18 14:01	11/02/18 17:31	75-00-3	
Chloroform	<b>50.0 U</b>	ug/kg	50.0	25.0	1	11/02/18 14:01	11/02/18 17:31	67-66-3	
Chloromethane	<b>200 U</b>	ug/kg	200	12.0	1	11/02/18 14:01	11/02/18 17:31	74-87-3	
2-Chlorotoluene	<b>200 U</b>	ug/kg	200	2.5	1	11/02/18 14:01	11/02/18 17:31	95-49-8	
4-Chlorotoluene	<b>50.0 U</b>	ug/kg	50.0	2.6	1	11/02/18 14:01	11/02/18 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	<b>500 U</b>	ug/kg	500	174	1	11/02/18 14:01	11/02/18 17:31	96-12-8	
Dibromochloromethane	<b>200 U</b>	ug/kg	200	5.8	1	11/02/18 14:01	11/02/18 17:31	124-48-1	
1,2-Dibromoethane (EDB)	<b>50.0 U</b>	ug/kg	50.0	5.3	1	11/02/18 14:01	11/02/18 17:31	106-93-4	
Dibromomethane	<b>50.0 U</b>	ug/kg	50.0	9.2	1	11/02/18 14:01	11/02/18 17:31	74-95-3	
1,2-Dichlorobenzene	<b>50.0 U</b>	ug/kg	50.0	2.0	1	11/02/18 14:01	11/02/18 17:31	95-50-1	
1,3-Dichlorobenzene	<b>50.0 U</b>	ug/kg	50.0	1.8	1	11/02/18 14:01	11/02/18 17:31	541-73-1	
1,4-Dichlorobenzene	<b>50.0 U</b>	ug/kg	50.0	3.1	1	11/02/18 14:01	11/02/18 17:31	106-46-7	
Dichlorodifluoromethane	<b>200 U</b>	ug/kg	200	16.2	1	11/02/18 14:01	11/02/18 17:31	75-71-8	
1,1-Dichloroethane	<b>50.0 U</b>	ug/kg	50.0	5.6	1	11/02/18 14:01	11/02/18 17:31	75-34-3	
1,2-Dichloroethane	<b>50.0 U</b>	ug/kg	50.0	5.5	1	11/02/18 14:01	11/02/18 17:31	107-06-2	
1,1-Dichloroethene	<b>50.0 U</b>	ug/kg	50.0	15.0	1	11/02/18 14:01	11/02/18 17:31	75-35-4	
cis-1,2-Dichloroethene	<b>50.0 U</b>	ug/kg	50.0	8.3	1	11/02/18 14:01	11/02/18 17:31	156-59-2	
trans-1,2-Dichloroethene	<b>50.0 U</b>	ug/kg	50.0	23.4	1	11/02/18 14:01	11/02/18 17:31	156-60-5	
Dichlorofluoromethane	<b>500 U</b>	ug/kg	500	69.1	1	11/02/18 14:01	11/02/18 17:31	75-43-4	N2
1,2-Dichloropropane	<b>50.0 U</b>	ug/kg	50.0	8.6	1	11/02/18 14:01	11/02/18 17:31	78-87-5	
1,3-Dichloropropane	<b>50.0 U</b>	ug/kg	50.0	6.9	1	11/02/18 14:01	11/02/18 17:31	142-28-9	
2,2-Dichloropropane	<b>200 U</b>	ug/kg	200	6.2	1	11/02/18 14:01	11/02/18 17:31	594-20-7	
1,1-Dichloropropene	<b>50.0 U</b>	ug/kg	50.0	23.1	1	11/02/18 14:01	11/02/18 17:31	563-58-6	
cis-1,3-Dichloropropene	<b>50.0 U</b>	ug/kg	50.0	7.2	1	11/02/18 14:01	11/02/18 17:31	10061-01-5	
trans-1,3-Dichloropropene	<b>50.0 U</b>	ug/kg	50.0	7.0	1	11/02/18 14:01	11/02/18 17:31	10061-02-6	
Diethyl ether (Ethyl ether)	<b>200 U</b>	ug/kg	200	30.6	1	11/02/18 14:01	11/02/18 17:31	60-29-7	
Ethylbenzene	<b>50.0 U</b>	ug/kg	50.0	2.7	1	11/02/18 14:01	11/02/18 17:31	100-41-4	
Hexachloro-1,3-butadiene	<b>250 U</b>	ug/kg	250	12.2	1	11/02/18 14:01	11/02/18 17:31	87-68-3	
Isopropylbenzene (Cumene)	<b>50.0 U</b>	ug/kg	50.0	2.2	1	11/02/18 14:01	11/02/18 17:31	98-82-8	
p-Isopropyltoluene	<b>50.0 U</b>	ug/kg	50.0	15.2	1	11/02/18 14:01	11/02/18 17:31	99-87-6	
Methylene Chloride	<b>200 U</b>	ug/kg	200	94.1	1	11/02/18 14:01	11/02/18 17:31	75-09-2	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample: S TRIP BLANK**      **Lab ID: 10452955047**      Collected: 10/23/18 00:00      Received: 10/24/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5030 Med Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
4-Methyl-2-pentanone (MIBK)	<b>250 U</b>	ug/kg	250	10.4	1	11/02/18 14:01	11/02/18 17:31	108-10-1	
Methyl-tert-butyl ether	<b>50.0 U</b>	ug/kg	50.0	6.0	1	11/02/18 14:01	11/02/18 17:31	1634-04-4	
Naphthalene	<b>200 U</b>	ug/kg	200	46.8	1	11/02/18 14:01	11/02/18 17:31	91-20-3	
n-Propylbenzene	<b>50.0 U</b>	ug/kg	50.0	2.7	1	11/02/18 14:01	11/02/18 17:31	103-65-1	
Styrene	<b>50.0 U</b>	ug/kg	50.0	2.3	1	11/02/18 14:01	11/02/18 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	<b>50.0 U</b>	ug/kg	50.0	15.7	1	11/02/18 14:01	11/02/18 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	<b>50.0 U</b>	ug/kg	50.0	8.8	1	11/02/18 14:01	11/02/18 17:31	79-34-5	
Tetrachloroethene	<b>50.0 U</b>	ug/kg	50.0	17.6	1	11/02/18 14:01	11/02/18 17:31	127-18-4	
Tetrahydrofuran	<b>2000 U</b>	ug/kg	2000	72.7	1	11/02/18 14:01	11/02/18 17:31	109-99-9	
Toluene	<b>50.0 U</b>	ug/kg	50.0	12.2	1	11/02/18 14:01	11/02/18 17:31	108-88-3	
1,2,3-Trichlorobenzene	<b>50.0 U</b>	ug/kg	50.0	8.0	1	11/02/18 14:01	11/02/18 17:31	87-61-6	
1,2,4-Trichlorobenzene	<b>50.0 U</b>	ug/kg	50.0	11.1	1	11/02/18 14:01	11/02/18 17:31	120-82-1	
1,1,1-Trichloroethane	<b>50.0 U</b>	ug/kg	50.0	23.3	1	11/02/18 14:01	11/02/18 17:31	71-55-6	
1,1,2-Trichloroethane	<b>50.0 U</b>	ug/kg	50.0	6.0	1	11/02/18 14:01	11/02/18 17:31	79-00-5	
Trichloroethene	<b>50.0 U</b>	ug/kg	50.0	7.7	1	11/02/18 14:01	11/02/18 17:31	79-01-6	
Trichlorofluoromethane	<b>200 U</b>	ug/kg	200	87.2	1	11/02/18 14:01	11/02/18 17:31	75-69-4	
1,2,3-Trichloropropane	<b>200 U</b>	ug/kg	200	13.1	1	11/02/18 14:01	11/02/18 17:31	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>200 U</b>	ug/kg	200	58.0	1	11/02/18 14:01	11/02/18 17:31	76-13-1	
1,2,4-Trimethylbenzene	<b>50.0 U</b>	ug/kg	50.0	10.0	1	11/02/18 14:01	11/02/18 17:31	95-63-6	
1,3,5-Trimethylbenzene	<b>50.0 U</b>	ug/kg	50.0	8.0	1	11/02/18 14:01	11/02/18 17:31	108-67-8	
Vinyl chloride	<b>20.0 U</b>	ug/kg	20.0	9.8	1	11/02/18 14:01	11/02/18 17:31	75-01-4	
Xylene (Total)	<b>150 U</b>	ug/kg	150	11.6	1	11/02/18 14:01	11/02/18 17:31	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	75-125		1	11/02/18 14:01	11/02/18 17:31	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	11/02/18 14:01	11/02/18 17:31	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1	11/02/18 14:01	11/02/18 17:31	460-00-4	

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### ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Sample: U TRIP BLANK Lab ID: 10452955048 Collected: 10/23/18 00:00 Received: 10/24/18 14:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>									
Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low									
Acetone	20.0 U	ug/kg	20.0	9.1	1	10/30/18 15:35	10/30/18 21:36	67-64-1	
Allyl chloride	10.0 U	ug/kg	10.0	0.96	1	10/30/18 15:35	10/30/18 21:36	107-05-1	
Benzene	4.0 U	ug/kg	4.0	0.33	1	10/30/18 15:35	10/30/18 21:36	71-43-2	
Bromobenzene	4.0 U	ug/kg	4.0	0.34	1	10/30/18 15:35	10/30/18 21:36	108-86-1	
Bromochloromethane	4.0 U	ug/kg	4.0	0.82	1	10/30/18 15:35	10/30/18 21:36	74-97-5	
Bromodichloromethane	4.0 U	ug/kg	4.0	0.34	1	10/30/18 15:35	10/30/18 21:36	75-27-4	
Bromoform	20.0 U	ug/kg	20.0	0.35	1	10/30/18 15:35	10/30/18 21:36	75-25-2	
Bromomethane	20.0 U	ug/kg	20.0	0.28	1	10/30/18 15:35	10/30/18 21:36	74-83-9	
2-Butanone (MEK)	20.0 U	ug/kg	20.0	2.2	1	10/30/18 15:35	10/30/18 21:36	78-93-3	
n-Butylbenzene	4.0 U	ug/kg	4.0	0.28	1	10/30/18 15:35	10/30/18 21:36	104-51-8	
sec-Butylbenzene	4.0 U	ug/kg	4.0	0.32	1	10/30/18 15:35	10/30/18 21:36	135-98-8	
tert-Butylbenzene	4.0 U	ug/kg	4.0	0.35	1	10/30/18 15:35	10/30/18 21:36	98-06-6	
Carbon tetrachloride	4.0 U	ug/kg	4.0	0.33	1	10/30/18 15:35	10/30/18 21:36	56-23-5	
Chlorobenzene	4.0 U	ug/kg	4.0	0.39	1	10/30/18 15:35	10/30/18 21:36	108-90-7	
Chloroethane	10.0 U	ug/kg	10.0	0.29	1	10/30/18 15:35	10/30/18 21:36	75-00-3	
Chloroform	4.0 U	ug/kg	4.0	0.88	1	10/30/18 15:35	10/30/18 21:36	67-66-3	
Chloromethane	10.0 U	ug/kg	10.0	0.49	1	10/30/18 15:35	10/30/18 21:36	74-87-3	
2-Chlorotoluene	4.0 U	ug/kg	4.0	0.41	1	10/30/18 15:35	10/30/18 21:36	95-49-8	
4-Chlorotoluene	4.0 U	ug/kg	4.0	0.41	1	10/30/18 15:35	10/30/18 21:36	106-43-4	
1,2-Dibromo-3-chloropropane	10.0 U	ug/kg	10.0	1.1	1	10/30/18 15:35	10/30/18 21:36	96-12-8	
Dibromochloromethane	4.0 U	ug/kg	4.0	0.26	1	10/30/18 15:35	10/30/18 21:36	124-48-1	
1,2-Dibromoethane (EDB)	4.0 U	ug/kg	4.0	0.23	1	10/30/18 15:35	10/30/18 21:36	106-93-4	
Dibromomethane	4.0 U	ug/kg	4.0	0.31	1	10/30/18 15:35	10/30/18 21:36	74-95-3	
1,2-Dichlorobenzene	4.0 U	ug/kg	4.0	0.41	1	10/30/18 15:35	10/30/18 21:36	95-50-1	
1,3-Dichlorobenzene	4.0 U	ug/kg	4.0	0.40	1	10/30/18 15:35	10/30/18 21:36	541-73-1	
1,4-Dichlorobenzene	4.0 U	ug/kg	4.0	0.41	1	10/30/18 15:35	10/30/18 21:36	106-46-7	
Dichlorodifluoromethane	10.0 U	ug/kg	10.0	0.44	1	10/30/18 15:35	10/30/18 21:36	75-71-8	
1,1-Dichloroethane	4.0 U	ug/kg	4.0	0.43	1	10/30/18 15:35	10/30/18 21:36	75-34-3	
1,2-Dichloroethane	4.0 U	ug/kg	4.0	0.25	1	10/30/18 15:35	10/30/18 21:36	107-06-2	
1,1-Dichloroethene	4.0 U	ug/kg	4.0	0.32	1	10/30/18 15:35	10/30/18 21:36	75-35-4	
cis-1,2-Dichloroethene	4.0 U	ug/kg	4.0	0.46	1	10/30/18 15:35	10/30/18 21:36	156-59-2	
trans-1,2-Dichloroethene	4.0 U	ug/kg	4.0	0.43	1	10/30/18 15:35	10/30/18 21:36	156-60-5	
Dichlorofluoromethane	4.0 U	ug/kg	4.0	0.33	1	10/30/18 15:35	10/30/18 21:36	75-43-4	N2
1,2-Dichloropropane	4.0 U	ug/kg	4.0	0.24	1	10/30/18 15:35	10/30/18 21:36	78-87-5	
1,3-Dichloropropane	4.0 U	ug/kg	4.0	0.37	1	10/30/18 15:35	10/30/18 21:36	142-28-9	
2,2-Dichloropropane	10.0 U	ug/kg	10.0	0.36	1	10/30/18 15:35	10/30/18 21:36	594-20-7	
1,1-Dichloropropene	4.0 U	ug/kg	4.0	0.37	1	10/30/18 15:35	10/30/18 21:36	563-58-6	
cis-1,3-Dichloropropene	4.0 U	ug/kg	4.0	0.29	1	10/30/18 15:35	10/30/18 21:36	10061-01-5	
trans-1,3-Dichloropropene	4.0 U	ug/kg	4.0	0.29	1	10/30/18 15:35	10/30/18 21:36	10061-02-6	
Diethyl ether (Ethyl ether)	10.0 U	ug/kg	10.0	0.56	1	10/30/18 15:35	10/30/18 21:36	60-29-7	
Ethylbenzene	4.0 U	ug/kg	4.0	0.30	1	10/30/18 15:35	10/30/18 21:36	100-41-4	
Hexachloro-1,3-butadiene	10.0 U	ug/kg	10.0	0.35	1	10/30/18 15:35	10/30/18 21:36	87-68-3	
Isopropylbenzene (Cumene)	4.0 U	ug/kg	4.0	0.30	1	10/30/18 15:35	10/30/18 21:36	98-82-8	
p-Isopropyltoluene	4.0 U	ug/kg	4.0	0.35	1	10/30/18 15:35	10/30/18 21:36	99-87-6	
Methylene Chloride	12.6J	ug/kg	20.0	3.7	1	10/30/18 15:35	10/30/18 21:36	75-09-2	C0

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

**Sample:** U TRIP BLANK      **Lab ID:** 10452955048      Collected: 10/23/18 00:00      Received: 10/24/18 14:00      Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260B MSV 5035 Low Level</b>		Analytical Method: EPA 8260B Preparation Method: EPA 5035 Low							
4-Methyl-2-pentanone (MIBK)	<b>20.0 U</b>	ug/kg	20.0	1.4	1	10/30/18 15:35	10/30/18 21:36	108-10-1	
Methyl-tert-butyl ether	<b>4.0 U</b>	ug/kg	4.0	0.30	1	10/30/18 15:35	10/30/18 21:36	1634-04-4	
Naphthalene	<b>10.0 U</b>	ug/kg	10.0	0.37	1	10/30/18 15:35	10/30/18 21:36	91-20-3	
n-Propylbenzene	<b>4.0 U</b>	ug/kg	4.0	0.34	1	10/30/18 15:35	10/30/18 21:36	103-65-1	
Styrene	<b>4.0 U</b>	ug/kg	4.0	0.29	1	10/30/18 15:35	10/30/18 21:36	100-42-5	
1,1,1,2-Tetrachloroethane	<b>4.0 U</b>	ug/kg	4.0	0.28	1	10/30/18 15:35	10/30/18 21:36	630-20-6	
1,1,2,2-Tetrachloroethane	<b>4.0 U</b>	ug/kg	4.0	0.25	1	10/30/18 15:35	10/30/18 21:36	79-34-5	
Tetrachloroethene	<b>4.0 U</b>	ug/kg	4.0	0.30	1	10/30/18 15:35	10/30/18 21:36	127-18-4	
Tetrahydrofuran	<b>40.0 U</b>	ug/kg	40.0	4.0	1	10/30/18 15:35	10/30/18 21:36	109-99-9	
Toluene	<b>4.0 U</b>	ug/kg	4.0	0.93	1	10/30/18 15:35	10/30/18 21:36	108-88-3	
1,2,3-Trichlorobenzene	<b>4.0 U</b>	ug/kg	4.0	0.29	1	10/30/18 15:35	10/30/18 21:36	87-61-6	
1,2,4-Trichlorobenzene	<b>4.0 U</b>	ug/kg	4.0	0.36	1	10/30/18 15:35	10/30/18 21:36	120-82-1	
1,1,1-Trichloroethane	<b>4.0 U</b>	ug/kg	4.0	0.37	1	10/30/18 15:35	10/30/18 21:36	71-55-6	
1,1,2-Trichloroethane	<b>4.0 U</b>	ug/kg	4.0	0.48	1	10/30/18 15:35	10/30/18 21:36	79-00-5	
Trichloroethene	<b>4.0 U</b>	ug/kg	4.0	0.35	1	10/30/18 15:35	10/30/18 21:36	79-01-6	
Trichlorofluoromethane	<b>10.0 U</b>	ug/kg	10.0	0.45	1	10/30/18 15:35	10/30/18 21:36	75-69-4	
1,2,3-Trichloropropane	<b>4.0 U</b>	ug/kg	4.0	0.78	1	10/30/18 15:35	10/30/18 21:36	96-18-4	
1,1,2-Trichlorotrifluoroethane	<b>4.0 U</b>	ug/kg	4.0	1.0	1	10/30/18 15:35	10/30/18 21:36	76-13-1	
1,2,4-Trimethylbenzene	<b>4.0 U</b>	ug/kg	4.0	0.42	1	10/30/18 15:35	10/30/18 21:36	95-63-6	
1,3,5-Trimethylbenzene	<b>4.0 U</b>	ug/kg	4.0	0.38	1	10/30/18 15:35	10/30/18 21:36	108-67-8	
Vinyl chloride	<b>4.0 U</b>	ug/kg	4.0	0.29	1	10/30/18 15:35	10/30/18 21:36	75-01-4	
Xylene (Total)	<b>12.0 U</b>	ug/kg	12.0	0.64	1	10/30/18 15:35	10/30/18 21:36	1330-20-7	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	92	%	75-126		1	10/30/18 15:35	10/30/18 21:36	17060-07-0	
Toluene-d8 (S)	98	%	75-125		1	10/30/18 15:35	10/30/18 21:36	2037-26-5	
4-Bromofluorobenzene (S)	103	%	75-128		1	10/30/18 15:35	10/30/18 21:36	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

QC Batch: 571743 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
Associated Lab Samples: 10452955005, 10452955006, 10452955007, 10452955009, 10452955048

METHOD BLANK: 3101909 Matrix: Solid  
Associated Lab Samples: 10452955005, 10452955006, 10452955007, 10452955009, 10452955048

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1,1-Trichloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1,2-Trichloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1,2-Trichlorotrifluoroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1-Dichloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1-Dichloroethene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,1-Dichloropropene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2,3-Trichloropropane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2-Dibromo-3-chloropropane	ug/kg	10.0 U	10.0	10/30/18 20:58	
1,2-Dibromoethane (EDB)	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2-Dichlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2-Dichloroethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,2-Dichloropropane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,3-Dichlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,3-Dichloropropane	ug/kg	4.0 U	4.0	10/30/18 20:58	
1,4-Dichlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
2,2-Dichloropropane	ug/kg	10.0 U	10.0	10/30/18 20:58	
2-Butanone (MEK)	ug/kg	20.0 U	20.0	10/30/18 20:58	
2-Chlorotoluene	ug/kg	4.0 U	4.0	10/30/18 20:58	
4-Chlorotoluene	ug/kg	4.0 U	4.0	10/30/18 20:58	
4-Methyl-2-pentanone (MIBK)	ug/kg	20.0 U	20.0	10/30/18 20:58	
Acetone	ug/kg	20.0 U	20.0	10/30/18 20:58	
Allyl chloride	ug/kg	10.0 U	10.0	10/30/18 20:58	
Benzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Bromobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Bromochloromethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
Bromodichloromethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
Bromoform	ug/kg	20.0 U	20.0	10/30/18 20:58	
Bromomethane	ug/kg	20.0 U	20.0	10/30/18 20:58	
Carbon tetrachloride	ug/kg	4.0 U	4.0	10/30/18 20:58	
Chlorobenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Chloroethane	ug/kg	10.0 U	10.0	10/30/18 20:58	
Chloroform	ug/kg	4.0 U	4.0	10/30/18 20:58	
Chloromethane	ug/kg	10.0 U	10.0	10/30/18 20:58	
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.0	10/30/18 20:58	
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.0	10/30/18 20:58	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3101909

Matrix: Solid

Associated Lab Samples: 10452955005, 10452955006, 10452955007, 10452955009, 10452955048

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
Dibromomethane	ug/kg	4.0 U	4.0	10/30/18 20:58	
Dichlorodifluoromethane	ug/kg	10.0 U	10.0	10/30/18 20:58	
Dichlorofluoromethane	ug/kg	4.0 U	4.0	10/30/18 20:58	N2
Diethyl ether (Ethyl ether)	ug/kg	10.0 U	10.0	10/30/18 20:58	
Ethylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Hexachloro-1,3-butadiene	ug/kg	10.0 U	10.0	10/30/18 20:58	
Isopropylbenzene (Cumene)	ug/kg	4.0 U	4.0	10/30/18 20:58	
Methyl-tert-butyl ether	ug/kg	4.0 U	4.0	10/30/18 20:58	
Methylene Chloride	ug/kg	20.0 U	20.0	10/30/18 20:58	
n-Butylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
n-Propylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Naphthalene	ug/kg	10.0 U	10.0	10/30/18 20:58	
p-Isopropyltoluene	ug/kg	4.0 U	4.0	10/30/18 20:58	
sec-Butylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Styrene	ug/kg	4.0 U	4.0	10/30/18 20:58	
tert-Butylbenzene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Tetrachloroethene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Tetrahydrofuran	ug/kg	40.0 U	40.0	10/30/18 20:58	
Toluene	ug/kg	4.0 U	4.0	10/30/18 20:58	
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.0	10/30/18 20:58	
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Trichloroethene	ug/kg	4.0 U	4.0	10/30/18 20:58	
Trichlorofluoromethane	ug/kg	10.0 U	10.0	10/30/18 20:58	
Vinyl chloride	ug/kg	4.0 U	4.0	10/30/18 20:58	
Xylene (Total)	ug/kg	12.0 U	12.0	10/30/18 20:58	
1,2-Dichloroethane-d4 (S)	%	94	75-126	10/30/18 20:58	
4-Bromofluorobenzene (S)	%	102	75-128	10/30/18 20:58	
Toluene-d8 (S)	%	99	75-125	10/30/18 20:58	

LABORATORY CONTROL SAMPLE & LCSD: 3101910

3101911

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	18.9	19.0	95	95	75-125	0	20	
1,1,1-Trichloroethane	ug/kg	20	18.3	18.1	92	91	75-125	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	20	19.6	19.5	98	97	67-125	0	20	
1,1,2-Trichloroethane	ug/kg	20	19.4	19.1	97	96	75-125	1	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	17.8	17.7	89	89	70-125	1	20	
1,1-Dichloroethane	ug/kg	20	17.2	17.3	86	87	70-125	0	20	
1,1-Dichloroethene	ug/kg	20	19.6	18.9	98	94	67-125	4	20	
1,1-Dichloropropene	ug/kg	20	19.1	19.0	96	95	68-125	1	20	
1,2,3-Trichlorobenzene	ug/kg	20	17.6	17.4	88	87	75-125	1	20	
1,2,3-Trichloropropane	ug/kg	20	19.4	18.9	97	94	75-125	3	20	
1,2,4-Trichlorobenzene	ug/kg	20	17.9	17.7	90	89	75-125	1	20	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE & LCSD: 3101910

3101911

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	18.6	18.5	93	92	75-125	0	20	
1,2-Dibromo-3-chloropropane	ug/kg	50	51.6	51.4	103	103	68-125	0	20	
1,2-Dibromoethane (EDB)	ug/kg	20	19.5	19.4	97	97	75-125	1	20	
1,2-Dichlorobenzene	ug/kg	20	17.7	17.6	89	88	75-125	1	20	
1,2-Dichloroethane	ug/kg	20	17.5	17.6	87	88	74-125	1	20	
1,2-Dichloropropane	ug/kg	20	18.4	18.6	92	93	75-125	1	20	
1,3,5-Trimethylbenzene	ug/kg	20	18.5	18.5	93	93	75-125	0	20	
1,3-Dichlorobenzene	ug/kg	20	17.5	17.4	88	87	75-125	0	20	
1,3-Dichloropropane	ug/kg	20	19.3	18.7	97	93	75-125	3	20	
1,4-Dichlorobenzene	ug/kg	20	17.3	17.1	87	86	75-125	1	20	
2,2-Dichloropropane	ug/kg	20	17.2	17.0	86	85	75-125	1	20	
2-Butanone (MEK)	ug/kg	100	92.0	88.2	92	88	56-134	4	20	
2-Chlorotoluene	ug/kg	20	17.6	17.4	88	87	75-125	1	20	
4-Chlorotoluene	ug/kg	20	17.6	17.5	88	87	75-125	1	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	97.0	94.6	97	95	71-125	3	20	
Acetone	ug/kg	100	96.0	98.4	96	98	30-150	2	20	
Allyl chloride	ug/kg	20	16.4	16.6	82	83	65-125	1	20	
Benzene	ug/kg	20	17.6	17.6	88	88	69-125	0	20	
Bromobenzene	ug/kg	20	17.8	17.5	89	88	75-125	2	20	
Bromochloromethane	ug/kg	20	18.9	19.1	94	96	75-125	1	20	
Bromodichloromethane	ug/kg	20	18.8	19.1	94	95	75-125	2	20	
Bromoform	ug/kg	20	19.1J	18.9J	95	95	75-125		20	
Bromomethane	ug/kg	20	18.6J	17.9J	93	89	67-131		20	
Carbon tetrachloride	ug/kg	20	18.7	18.8	94	94	75-125	0	20	
Chlorobenzene	ug/kg	20	17.7	17.7	89	88	75-125	0	20	
Chloroethane	ug/kg	20	19.2	18.3	96	92	63-125	5	20	
Chloroform	ug/kg	20	17.4	17.4	87	87	75-125	0	20	
Chloromethane	ug/kg	20	18.3	18.6	92	93	30-150	1	20	
cis-1,2-Dichloroethene	ug/kg	20	18.1	18.1	91	90	72-125	0	20	
cis-1,3-Dichloropropene	ug/kg	20	18.8	18.7	94	94	73-125	0	20	
Dibromochloromethane	ug/kg	20	20.0	20.1	100	100	75-125	1	20	
Dibromomethane	ug/kg	20	20.7	20.8	103	104	75-125	1	20	
Dichlorodifluoromethane	ug/kg	20	19.8	20.2	99	101	55-134	2	20	
Dichlorofluoromethane	ug/kg	20	19.3	18.8	96	94	75-125	2	20	N2
Diethyl ether (Ethyl ether)	ug/kg	20	20.1	19.7	101	99	68-125	2	20	
Ethylbenzene	ug/kg	20	17.5	17.6	87	88	75-125	1	20	
Hexachloro-1,3-butadiene	ug/kg	20	17.9	17.7	89	89	75-125	1	20	
Isopropylbenzene (Cumene)	ug/kg	20	18.1	18.0	91	90	75-125	0	20	
Methyl-tert-butyl ether	ug/kg	20	17.9	17.8	89	89	70-125	0	20	
Methylene Chloride	ug/kg	20	17.4J	17.6J	87	88	58-134		20	
n-Butylbenzene	ug/kg	20	18.0	17.9	90	89	74-125	1	20	
n-Propylbenzene	ug/kg	20	17.6	17.7	88	88	75-125	0	20	
Naphthalene	ug/kg	20	18.6	18.4	93	92	66-125	1	20	
p-Isopropyltoluene	ug/kg	20	17.6	17.5	88	88	75-125	1	20	
sec-Butylbenzene	ug/kg	20	18.3	18.3	92	92	75-125	0	20	
Styrene	ug/kg	20	18.9	18.9	95	95	75-125	0	20	
tert-Butylbenzene	ug/kg	20	18.3	18.5	92	93	75-125	1	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE & LCSD: 3101910		3101911									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Tetrachloroethene	ug/kg	20	18.4	18.3	92	92	72-125	0	20		
Tetrahydrofuran	ug/kg	200	205	214	103	107	36-146	4	20		
Toluene	ug/kg	20	18.2	18.0	91	90	75-125	1	20		
trans-1,2-Dichloroethene	ug/kg	20	18.0	17.9	90	89	69-125	0	20		
trans-1,3-Dichloropropene	ug/kg	20	20.0	20.0	100	100	75-125	0	20		
Trichloroethene	ug/kg	20	18.8	18.7	94	94	75-125	0	20		
Trichlorofluoromethane	ug/kg	20	18.6	18.3	93	92	72-127	1	20		
Vinyl chloride	ug/kg	20	17.7	18.0	88	90	67-127	1	20		
Xylene (Total)	ug/kg	60	53.8	53.4	90	89	75-125	1	20		
1,2-Dichloroethane-d4 (S)	%				94	93	75-126				
4-Bromofluorobenzene (S)	%				99	99	75-128				
Toluene-d8 (S)	%				99	98	75-125				

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner  
Pace Project No.: 10452955

QC Batch: 572696 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
Associated Lab Samples: 10452955004, 10452955008

METHOD BLANK: 3107408 Matrix: Solid  
Associated Lab Samples: 10452955004, 10452955008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1,1-Trichloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1,2-Trichloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1,2-Trichlorotrifluoroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1-Dichloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1-Dichloroethene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,1-Dichloropropene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2,3-Trichloropropane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2-Dibromo-3-chloropropane	ug/kg	10.0 U	10.0	10/26/18 14:49	
1,2-Dibromoethane (EDB)	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2-Dichlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2-Dichloroethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,2-Dichloropropane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,3-Dichlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,3-Dichloropropane	ug/kg	4.0 U	4.0	10/26/18 14:49	
1,4-Dichlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
2,2-Dichloropropane	ug/kg	10.0 U	10.0	10/26/18 14:49	
2-Butanone (MEK)	ug/kg	20.0 U	20.0	10/26/18 14:49	
2-Chlorotoluene	ug/kg	4.0 U	4.0	10/26/18 14:49	
4-Chlorotoluene	ug/kg	4.0 U	4.0	10/26/18 14:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	20.0 U	20.0	10/26/18 14:49	
Acetone	ug/kg	20.0 U	20.0	10/26/18 14:49	
Allyl chloride	ug/kg	10.0 U	10.0	10/26/18 14:49	
Benzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Bromobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Bromochloromethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
Bromodichloromethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
Bromoform	ug/kg	20.0 U	20.0	10/26/18 14:49	
Bromomethane	ug/kg	20.0 U	20.0	10/26/18 14:49	
Carbon tetrachloride	ug/kg	4.0 U	4.0	10/26/18 14:49	
Chlorobenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Chloroethane	ug/kg	10.0 U	10.0	10/26/18 14:49	
Chloroform	ug/kg	4.0 U	4.0	10/26/18 14:49	
Chloromethane	ug/kg	10.0 U	10.0	10/26/18 14:49	
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.0	10/26/18 14:49	
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.0	10/26/18 14:49	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3107408

Matrix: Solid

Associated Lab Samples: 10452955004, 10452955008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
Dibromomethane	ug/kg	4.0 U	4.0	10/26/18 14:49	
Dichlorodifluoromethane	ug/kg	10.0 U	10.0	10/26/18 14:49	
Dichlorofluoromethane	ug/kg	4.0 U	4.0	10/26/18 14:49	N2
Diethyl ether (Ethyl ether)	ug/kg	10.0 U	10.0	10/26/18 14:49	
Ethylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Hexachloro-1,3-butadiene	ug/kg	10.0 U	10.0	10/26/18 14:49	
Isopropylbenzene (Cumene)	ug/kg	4.0 U	4.0	10/26/18 14:49	
Methyl-tert-butyl ether	ug/kg	4.0 U	4.0	10/26/18 14:49	
Methylene Chloride	ug/kg	20.0 U	20.0	10/26/18 14:49	
n-Butylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
n-Propylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Naphthalene	ug/kg	10.0 U	10.0	10/26/18 14:49	
p-Isopropyltoluene	ug/kg	4.0 U	4.0	10/26/18 14:49	
sec-Butylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Styrene	ug/kg	4.0 U	4.0	10/26/18 14:49	
tert-Butylbenzene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Tetrachloroethene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Tetrahydrofuran	ug/kg	40.0 U	40.0	10/26/18 14:49	
Toluene	ug/kg	4.0 U	4.0	10/26/18 14:49	
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.0	10/26/18 14:49	
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Trichloroethene	ug/kg	4.0 U	4.0	10/26/18 14:49	
Trichlorofluoromethane	ug/kg	10.0 U	10.0	10/26/18 14:49	
Vinyl chloride	ug/kg	4.0 U	4.0	10/26/18 14:49	
Xylene (Total)	ug/kg	12.0 U	12.0	10/26/18 14:49	
1,2-Dichloroethane-d4 (S)	%	114	75-126	10/26/18 14:49	
4-Bromofluorobenzene (S)	%	101	75-128	10/26/18 14:49	
Toluene-d8 (S)	%	95	75-125	10/26/18 14:49	

LABORATORY CONTROL SAMPLE & LCSD: 3107409

3107410

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	18.0	18.2	90	91	75-125	1	20	
1,1,1-Trichloroethane	ug/kg	20	22.3	21.1	111	106	75-125	5	20	
1,1,2,2-Tetrachloroethane	ug/kg	20	18.0	19.1	90	95	67-125	6	20	
1,1,2-Trichloroethane	ug/kg	20	19.3	20.4	96	102	75-125	5	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	21.5	20.4	108	102	70-125	5	20	
1,1-Dichloroethane	ug/kg	20	23.1	22.6	115	113	70-125	2	20	
1,1-Dichloroethene	ug/kg	20	22.4	21.9	112	109	67-125	2	20	
1,1-Dichloropropene	ug/kg	20	21.7	20.2	108	101	68-125	7	20	
1,2,3-Trichlorobenzene	ug/kg	20	18.1	18.8	91	94	75-125	4	20	
1,2,3-Trichloropropane	ug/kg	20	18.0	19.1	90	96	75-125	6	20	
1,2,4-Trichlorobenzene	ug/kg	20	18.1	17.8	90	89	75-125	2	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE & LCSD: 3107409		3107410									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/kg	20	17.9	17.2	90	86	75-125	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	50	43.8	48.8	88	98	68-125	11	20		
1,2-Dibromoethane (EDB)	ug/kg	20	20.0	21.1	100	106	75-125	6	20		
1,2-Dichlorobenzene	ug/kg	20	17.9	17.7	90	88	75-125	1	20		
1,2-Dichloroethane	ug/kg	20	21.1	22.0	105	110	74-125	4	20		
1,2-Dichloropropane	ug/kg	20	20.0	19.8	100	99	75-125	1	20		
1,3,5-Trimethylbenzene	ug/kg	20	17.6	16.9	88	84	75-125	4	20		
1,3-Dichlorobenzene	ug/kg	20	18.0	17.8	90	89	75-125	1	20		
1,3-Dichloropropane	ug/kg	20	18.3	19.1	91	95	75-125	4	20		
1,4-Dichlorobenzene	ug/kg	20	17.8	17.5	89	88	75-125	2	20		
2,2-Dichloropropane	ug/kg	20	23.2	22.7	116	113	75-125	2	20		
2-Butanone (MEK)	ug/kg	100	110	119	110	119	56-134	8	20		
2-Chlorotoluene	ug/kg	20	19.5	18.8	98	94	75-125	4	20		
4-Chlorotoluene	ug/kg	20	18.0	17.3	90	86	75-125	4	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	100	85.9	94.6	86	95	71-125	10	20		
Acetone	ug/kg	100	99.4	97.0	99	97	30-150	2	20		
Allyl chloride	ug/kg	20	22.1	21.4	111	107	65-125	4	20		
Benzene	ug/kg	20	22.4	21.9	112	110	69-125	2	20		
Bromobenzene	ug/kg	20	18.5	18.1	92	91	75-125	2	20		
Bromochloromethane	ug/kg	20	22.7	23.2	113	116	75-125	2	20		
Bromodichloromethane	ug/kg	20	19.7	20.0	98	100	75-125	1	20		
Bromoform	ug/kg	20	17.3J	18.6J	86	93	75-125		20		
Bromomethane	ug/kg	20	27.5	26.2	137	131	67-131	5	20	L3	
Carbon tetrachloride	ug/kg	20	22.1	20.6	111	103	75-125	7	20		
Chlorobenzene	ug/kg	20	17.3	17.0	87	85	75-125	2	20		
Chloroethane	ug/kg	20	26.0	26.0	130	130	63-125	0	20	L3	
Chloroform	ug/kg	20	21.4	21.5	107	107	75-125	1	20		
Chloromethane	ug/kg	20	24.6	24.0	123	120	30-150	2	20		
cis-1,2-Dichloroethene	ug/kg	20	23.2	23.2	116	116	72-125	0	20		
cis-1,3-Dichloropropene	ug/kg	20	20.0	20.0	100	100	73-125	0	20		
Dibromochloromethane	ug/kg	20	18.4	19.1	92	95	75-125	4	20		
Dibromomethane	ug/kg	20	20.9	21.4	105	107	75-125	2	20		
Dichlorodifluoromethane	ug/kg	20	25.0	23.8	125	119	55-134	5	20		
Dichlorofluoromethane	ug/kg	20	25.3	24.9	127	125	75-125	2	20	L3,N2	
Diethyl ether (Ethyl ether)	ug/kg	20	21.8	24.3	109	122	68-125	11	20		
Ethylbenzene	ug/kg	20	18.6	17.9	93	90	75-125	4	20		
Hexachloro-1,3-butadiene	ug/kg	20	18.1	17.4	90	87	75-125	4	20		
Isopropylbenzene (Cumene)	ug/kg	20	18.6	17.8	93	89	75-125	4	20		
Methyl-tert-butyl ether	ug/kg	20	21.8	23.5	109	118	70-125	8	20		
Methylene Chloride	ug/kg	20	21.8	22.6	109	113	58-134	3	20		
n-Butylbenzene	ug/kg	20	18.2	16.9	91	84	74-125	7	20		
n-Propylbenzene	ug/kg	20	18.1	17.0	90	85	75-125	6	20		
Naphthalene	ug/kg	20	17.2	18.2	86	91	66-125	6	20		
p-Isopropyltoluene	ug/kg	20	18.4	17.4	92	87	75-125	6	20		
sec-Butylbenzene	ug/kg	20	18.3	17.3	92	86	75-125	6	20		
Styrene	ug/kg	20	19.1	18.9	96	94	75-125	1	20		
tert-Butylbenzene	ug/kg	20	18.1	17.2	91	86	75-125	5	20		

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE & LCSD: 3107409		3107410								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/kg	20	19.2	18.3	96	92	72-125	5	20	
Tetrahydrofuran	ug/kg	200	226	232	113	116	36-146	3	20	
Toluene	ug/kg	20	19.0	18.6	95	93	75-125	2	20	
trans-1,2-Dichloroethene	ug/kg	20	23.4	22.4	117	112	69-125	4	20	
trans-1,3-Dichloropropene	ug/kg	20	18.6	19.1	93	96	75-125	3	20	
Trichloroethene	ug/kg	20	20.0	19.2	100	96	75-125	4	20	
Trichlorofluoromethane	ug/kg	20	26.1	24.9	131	125	72-127	5	20	L3
Vinyl chloride	ug/kg	20	23.9	23.0	119	115	67-127	4	20	
Xylene (Total)	ug/kg	60	55.6	54.3	93	90	75-125	2	20	
1,2-Dichloroethane-d4 (S)	%				111	114	75-126			
4-Bromofluorobenzene (S)	%				99	99	75-128			
Toluene-d8 (S)	%				97	96	75-125			

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

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QC Batch: 573139 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 5035 Low Analysis Description: 8260B MSV 5035 Low Level  
 Associated Lab Samples: 10452955010, 10452955011, 10452955012, 10452955013, 10452955020, 10452955021, 10452955022,  
 10452955033, 10452955034, 10452955035

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METHOD BLANK: 3109959 Matrix: Solid  
 Associated Lab Samples: 10452955010, 10452955011, 10452955012, 10452955013, 10452955020, 10452955021, 10452955022,  
 10452955033, 10452955034, 10452955035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1,1-Trichloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1,2,2-Tetrachloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1,2-Trichloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1,2-Trichlorotrifluoroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1-Dichloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1-Dichloroethene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,1-Dichloropropene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2,3-Trichlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2,3-Trichloropropane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2,4-Trichlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2,4-Trimethylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2-Dibromo-3-chloropropane	ug/kg	10.0 U	10.0	11/02/18 13:40	
1,2-Dibromoethane (EDB)	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2-Dichlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2-Dichloroethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,2-Dichloropropane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,3,5-Trimethylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,3-Dichlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,3-Dichloropropane	ug/kg	4.0 U	4.0	11/02/18 13:40	
1,4-Dichlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
2,2-Dichloropropane	ug/kg	10.0 U	10.0	11/02/18 13:40	
2-Butanone (MEK)	ug/kg	20.0 U	20.0	11/02/18 13:40	
2-Chlorotoluene	ug/kg	4.0 U	4.0	11/02/18 13:40	
4-Chlorotoluene	ug/kg	4.0 U	4.0	11/02/18 13:40	
4-Methyl-2-pentanone (MIBK)	ug/kg	20.0 U	20.0	11/02/18 13:40	
Acetone	ug/kg	20.0 U	20.0	11/02/18 13:40	
Allyl chloride	ug/kg	10.0 U	10.0	11/02/18 13:40	
Benzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Bromobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Bromochloromethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
Bromodichloromethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
Bromoform	ug/kg	20.0 U	20.0	11/02/18 13:40	
Bromomethane	ug/kg	20.0 U	20.0	11/02/18 13:40	
Carbon tetrachloride	ug/kg	4.0 U	4.0	11/02/18 13:40	
Chlorobenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Chloroethane	ug/kg	10.0 U	10.0	11/02/18 13:40	
Chloroform	ug/kg	4.0 U	4.0	11/02/18 13:40	
Chloromethane	ug/kg	10.0 U	10.0	11/02/18 13:40	
cis-1,2-Dichloroethene	ug/kg	4.0 U	4.0	11/02/18 13:40	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3109959

Matrix: Solid

Associated Lab Samples: 10452955010, 10452955011, 10452955012, 10452955013, 10452955020, 10452955021, 10452955022, 10452955033, 10452955034, 10452955035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Dibromochloromethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
Dibromomethane	ug/kg	4.0 U	4.0	11/02/18 13:40	
Dichlorodifluoromethane	ug/kg	10.0 U	10.0	11/02/18 13:40	
Dichlorofluoromethane	ug/kg	4.0 U	4.0	11/02/18 13:40	N2
Diethyl ether (Ethyl ether)	ug/kg	10.0 U	10.0	11/02/18 13:40	
Ethylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Hexachloro-1,3-butadiene	ug/kg	10.0 U	10.0	11/02/18 13:40	
Isopropylbenzene (Cumene)	ug/kg	4.0 U	4.0	11/02/18 13:40	
Methyl-tert-butyl ether	ug/kg	4.0 U	4.0	11/02/18 13:40	
Methylene Chloride	ug/kg	20.0 U	20.0	11/02/18 13:40	
n-Butylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
n-Propylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Naphthalene	ug/kg	10.0 U	10.0	11/02/18 13:40	
p-Isopropyltoluene	ug/kg	4.0 U	4.0	11/02/18 13:40	
sec-Butylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Styrene	ug/kg	4.0 U	4.0	11/02/18 13:40	
tert-Butylbenzene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Tetrachloroethene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Tetrahydrofuran	ug/kg	40.0 U	40.0	11/02/18 13:40	
Toluene	ug/kg	4.0 U	4.0	11/02/18 13:40	
trans-1,2-Dichloroethene	ug/kg	4.0 U	4.0	11/02/18 13:40	
trans-1,3-Dichloropropene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Trichloroethene	ug/kg	4.0 U	4.0	11/02/18 13:40	
Trichlorofluoromethane	ug/kg	10.0 U	10.0	11/02/18 13:40	
Vinyl chloride	ug/kg	4.0 U	4.0	11/02/18 13:40	
Xylene (Total)	ug/kg	12.0 U	12.0	11/02/18 13:40	
1,2-Dichloroethane-d4 (S)	%	94	75-126	11/02/18 13:40	
4-Bromofluorobenzene (S)	%	101	75-128	11/02/18 13:40	
Toluene-d8 (S)	%	97	75-125	11/02/18 13:40	

LABORATORY CONTROL SAMPLE & LCSD: 3109960

3109961

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	19.6	19.9	98	99	75-125	2	20	
1,1,1-Trichloroethane	ug/kg	20	20.7	20.2	103	101	75-125	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	20	17.0	18.0	85	90	67-125	6	20	
1,1,2-Trichloroethane	ug/kg	20	18.8	19.9	94	100	75-125	6	20	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	22.8	22.9	114	114	70-125	0	20	
1,1-Dichloroethane	ug/kg	20	19.0	18.9	95	95	70-125	0	20	
1,1-Dichloroethene	ug/kg	20	22.8	22.5	114	113	67-125	1	20	
1,1-Dichloropropene	ug/kg	20	21.8	21.5	109	108	68-125	1	20	
1,2,3-Trichlorobenzene	ug/kg	20	18.5	19.0	92	95	75-125	3	20	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE & LCS:		3109960	3109961				% Rec		Max	
Parameter	Units	Spike Conc.	LCS Result	LCS Result	LCS % Rec	LCS % Rec	Limits	RPD	RPD	Qualifiers
1,2,3-Trichloropropane	ug/kg	20	17.5	17.9	88	90	75-125	3	20	
1,2,4-Trichlorobenzene	ug/kg	20	20.3	20.3	101	101	75-125	0	20	
1,2,4-Trimethylbenzene	ug/kg	20	20.0	19.6	100	98	75-125	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	50	43.7	48.0	87	96	68-125	9	20	
1,2-Dibromoethane (EDB)	ug/kg	20	18.7	19.9	93	100	75-125	7	20	
1,2-Dichlorobenzene	ug/kg	20	18.4	18.5	92	93	75-125	1	20	
1,2-Dichloroethane	ug/kg	20	17.5	17.7	87	89	74-125	1	20	
1,2-Dichloropropane	ug/kg	20	20.0	19.7	100	98	75-125	2	20	
1,3,5-Trimethylbenzene	ug/kg	20	20.1	19.6	100	98	75-125	2	20	
1,3-Dichlorobenzene	ug/kg	20	19.0	18.7	95	93	75-125	2	20	
1,3-Dichloropropane	ug/kg	20	18.5	19.0	92	95	75-125	3	20	
1,4-Dichlorobenzene	ug/kg	20	18.7	18.3	94	92	75-125	2	20	
2,2-Dichloropropane	ug/kg	20	20.8	20.4	104	102	75-125	2	20	
2-Butanone (MEK)	ug/kg	100	74.5	84.8	74	85	56-134	13	20	
2-Chlorotoluene	ug/kg	20	19.1	18.8	96	94	75-125	2	20	
4-Chlorotoluene	ug/kg	20	19.4	18.8	97	94	75-125	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	80.4	90.4	80	90	71-125	12	20	
Acetone	ug/kg	100	101	102	101	102	30-150	1	20	
Allyl chloride	ug/kg	20	19.0	19.1	95	96	65-125	1	20	
Benzene	ug/kg	20	19.4	19.6	97	98	69-125	1	20	
Bromobenzene	ug/kg	20	18.5	18.4	92	92	75-125	1	20	
Bromochloromethane	ug/kg	20	18.7	19.7	94	98	75-125	5	20	
Bromodichloromethane	ug/kg	20	19.1	19.1	95	95	75-125	0	20	
Bromoform	ug/kg	20	17.2J	18.6J	86	93	75-125		20	
Bromomethane	ug/kg	20	22.7	22.7	114	114	67-131	0	20	
Carbon tetrachloride	ug/kg	20	22.1	21.8	111	109	75-125	1	20	
Chlorobenzene	ug/kg	20	19.0	19.0	95	95	75-125	0	20	
Chloroethane	ug/kg	20	23.7	23.9	118	120	63-125	1	20	
Chloroform	ug/kg	20	18.8	18.8	94	94	75-125	0	20	
Chloromethane	ug/kg	20	24.6	25.3	123	126	30-150	3	20	
cis-1,2-Dichloroethene	ug/kg	20	19.5	19.4	97	97	72-125	1	20	
cis-1,3-Dichloropropene	ug/kg	20	20.4	20.0	102	100	73-125	2	20	
Dibromochloromethane	ug/kg	20	19.2	19.6	96	98	75-125	2	20	
Dibromomethane	ug/kg	20	20.2	20.4	101	102	75-125	1	20	
Dichlorodifluoromethane	ug/kg	20	28.9	28.9	144	145	55-134	0	20	CH,L3
Dichlorofluoromethane	ug/kg	20	22.9	22.8	114	114	75-125	0	20	N2
Diethyl ether (Ethyl ether)	ug/kg	20	18.3	19.6	91	98	68-125	7	20	
Ethylbenzene	ug/kg	20	19.5	19.0	98	95	75-125	3	20	
Hexachloro-1,3-butadiene	ug/kg	20	21.5	21.0	107	105	75-125	2	20	
Isopropylbenzene (Cumene)	ug/kg	20	20.3	19.9	101	100	75-125	2	20	
Methyl-tert-butyl ether	ug/kg	20	16.8	18.1	84	90	70-125	7	20	
Methylene Chloride	ug/kg	20	18.3J	18.8J	91	94	58-134		20	
n-Butylbenzene	ug/kg	20	21.4	20.8	107	104	74-125	3	20	
n-Propylbenzene	ug/kg	20	20.0	19.4	100	97	75-125	3	20	
Naphthalene	ug/kg	20	16.5	17.6	83	88	66-125	7	20	
p-Isopropyltoluene	ug/kg	20	20.4	19.8	102	99	75-125	3	20	
sec-Butylbenzene	ug/kg	20	21.1	20.6	105	103	75-125	2	20	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 3109960		3109961			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Styrene	ug/kg	20	20.9	20.5	105	102	75-125	2	20	
tert-Butylbenzene	ug/kg	20	20.5	20.1	103	101	75-125	2	20	
Tetrachloroethene	ug/kg	20	22.2	21.9	111	110	72-125	1	20	
Tetrahydrofuran	ug/kg	200	217	216	109	108	36-146	1	20	
Toluene	ug/kg	20	20.1	19.8	100	99	75-125	1	20	
trans-1,2-Dichloroethene	ug/kg	20	20.3	20.2	102	101	69-125	1	20	
trans-1,3-Dichloropropene	ug/kg	20	20.0	20.4	100	102	75-125	2	20	
Trichloroethene	ug/kg	20	21.7	21.6	108	108	75-125	1	20	
Trichlorofluoromethane	ug/kg	20	24.7	25.3	124	127	72-127	3	20	
Vinyl chloride	ug/kg	20	23.3	24.2	117	121	67-127	4	20	
Xylene (Total)	ug/kg	60	58.8	57.8	98	96	75-125	2	20	
1,2-Dichloroethane-d4 (S)	%				89	94	75-126			
4-Bromofluorobenzene (S)	%				98	99	75-128			
Toluene-d8 (S)	%				98	98	75-125			

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner  
Pace Project No.: 10452955

QC Batch: 573192 Analysis Method: EPA 8260B  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260B MSV 5030 Med Level  
Associated Lab Samples: 10452955047

METHOD BLANK: 3110336 Matrix: Solid  
Associated Lab Samples: 10452955047

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1,1-Trichloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1,2,2-Tetrachloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1,2-Trichloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1,2-Trichlorotrifluoroethane	ug/kg	200 U	200	11/02/18 17:13	
1,1-Dichloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1-Dichloroethene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,1-Dichloropropene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2,3-Trichlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2,3-Trichloropropane	ug/kg	200 U	200	11/02/18 17:13	
1,2,4-Trichlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2,4-Trimethylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2-Dibromo-3-chloropropane	ug/kg	500 U	500	11/02/18 17:13	
1,2-Dibromoethane (EDB)	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2-Dichlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2-Dichloroethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,2-Dichloropropane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,3,5-Trimethylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,3-Dichlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,3-Dichloropropane	ug/kg	50.0 U	50.0	11/02/18 17:13	
1,4-Dichlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
2,2-Dichloropropane	ug/kg	200 U	200	11/02/18 17:13	
2-Butanone (MEK)	ug/kg	250 U	250	11/02/18 17:13	
2-Chlorotoluene	ug/kg	200 U	200	11/02/18 17:13	
4-Chlorotoluene	ug/kg	50.0 U	50.0	11/02/18 17:13	
4-Methyl-2-pentanone (MIBK)	ug/kg	250 U	250	11/02/18 17:13	
Acetone	ug/kg	1000 U	1000	11/02/18 17:13	
Allyl chloride	ug/kg	200 U	200	11/02/18 17:13	
Benzene	ug/kg	20.0 U	20.0	11/02/18 17:13	
Bromobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Bromochloromethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
Bromodichloromethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
Bromoform	ug/kg	200 U	200	11/02/18 17:13	
Bromomethane	ug/kg	500 U	500	11/02/18 17:13	
Carbon tetrachloride	ug/kg	50.0 U	50.0	11/02/18 17:13	
Chlorobenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Chloroethane	ug/kg	500 U	500	11/02/18 17:13	
Chloroform	ug/kg	50.0 U	50.0	11/02/18 17:13	
Chloromethane	ug/kg	200 U	200	11/02/18 17:13	
cis-1,2-Dichloroethene	ug/kg	50.0 U	50.0	11/02/18 17:13	
cis-1,3-Dichloropropene	ug/kg	50.0 U	50.0	11/02/18 17:13	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3110336

Matrix: Solid

Associated Lab Samples: 10452955047

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	200 U	200	11/02/18 17:13	
Dibromomethane	ug/kg	50.0 U	50.0	11/02/18 17:13	
Dichlorodifluoromethane	ug/kg	200 U	200	11/02/18 17:13	
Dichlorofluoromethane	ug/kg	500 U	500	11/02/18 17:13	N2
Diethyl ether (Ethyl ether)	ug/kg	200 U	200	11/02/18 17:13	
Ethylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Hexachloro-1,3-butadiene	ug/kg	250 U	250	11/02/18 17:13	
Isopropylbenzene (Cumene)	ug/kg	50.0 U	50.0	11/02/18 17:13	
Methyl-tert-butyl ether	ug/kg	50.0 U	50.0	11/02/18 17:13	
Methylene Chloride	ug/kg	200 U	200	11/02/18 17:13	
n-Butylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
n-Propylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Naphthalene	ug/kg	200 U	200	11/02/18 17:13	
p-Isopropyltoluene	ug/kg	50.0 U	50.0	11/02/18 17:13	
sec-Butylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Styrene	ug/kg	50.0 U	50.0	11/02/18 17:13	
tert-Butylbenzene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Tetrachloroethene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Tetrahydrofuran	ug/kg	2000 U	2000	11/02/18 17:13	
Toluene	ug/kg	50.0 U	50.0	11/02/18 17:13	
trans-1,2-Dichloroethene	ug/kg	50.0 U	50.0	11/02/18 17:13	
trans-1,3-Dichloropropene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Trichloroethene	ug/kg	50.0 U	50.0	11/02/18 17:13	
Trichlorofluoromethane	ug/kg	200 U	200	11/02/18 17:13	
Vinyl chloride	ug/kg	20.0 U	20.0	11/02/18 17:13	
Xylene (Total)	ug/kg	150 U	150	11/02/18 17:13	
1,2-Dichloroethane-d4 (S)	%	101	75-125	11/02/18 17:13	
4-Bromofluorobenzene (S)	%	103	75-125	11/02/18 17:13	
Toluene-d8 (S)	%	98	75-125	11/02/18 17:13	

LABORATORY CONTROL SAMPLE: 3110337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1000	854	85	59-125	
1,1,1-Trichloroethane	ug/kg	1000	873	87	59-125	
1,1,2,2-Tetrachloroethane	ug/kg	1000	816	82	58-125	
1,1,2-Trichloroethane	ug/kg	1000	786	79	64-125	
1,1,2-Trichlorotrifluoroethane	ug/kg	1000	883	88	65-125	
1,1-Dichloroethane	ug/kg	1000	864	86	63-125	
1,1-Dichloroethene	ug/kg	1000	830	83	59-125	
1,1-Dichloropropene	ug/kg	1000	841	84	64-125	
1,2,3-Trichlorobenzene	ug/kg	1000	829	83	55-126	
1,2,3-Trichloropropane	ug/kg	1000	768	77	62-125	
1,2,4-Trichlorobenzene	ug/kg	1000	786	79	62-125	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3110337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	907	91	59-125	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2000	80	54-125	
1,2-Dibromoethane (EDB)	ug/kg	1000	784	78	64-125	
1,2-Dichlorobenzene	ug/kg	1000	820	82	63-125	
1,2-Dichloroethane	ug/kg	1000	776	78	57-125	
1,2-Dichloropropane	ug/kg	1000	812	81	67-125	
1,3,5-Trimethylbenzene	ug/kg	1000	921	92	59-125	
1,3-Dichlorobenzene	ug/kg	1000	871	87	64-125	
1,3-Dichloropropane	ug/kg	1000	840	84	64-125	
1,4-Dichlorobenzene	ug/kg	1000	838	84	63-125	
2,2-Dichloropropane	ug/kg	1000	876	88	37-126	
2-Butanone (MEK)	ug/kg	5000	4100	82	48-125	
2-Chlorotoluene	ug/kg	1000	877	88	62-125	
4-Chlorotoluene	ug/kg	1000	868	87	63-125	
4-Methyl-2-pentanone (MIBK)	ug/kg	5000	4090	82	52-135	
Acetone	ug/kg	5000	4240	85	65-125	
Allyl chloride	ug/kg	1000	808	81	52-125	
Benzene	ug/kg	1000	865	86	61-125	
Bromobenzene	ug/kg	1000	849	85	64-125	
Bromochloromethane	ug/kg	1000	795	79	65-125	
Bromodichloromethane	ug/kg	1000	817	82	57-125	
Bromoform	ug/kg	1000	791	79	57-125	
Bromomethane	ug/kg	1000	1010	101	60-125	
Carbon tetrachloride	ug/kg	1000	914	91	58-125	
Chlorobenzene	ug/kg	1000	838	84	66-125	
Chloroethane	ug/kg	1000	1060	106	62-125	
Chloroform	ug/kg	1000	760	76	59-125	
Chloromethane	ug/kg	1000	783	78	50-125	
cis-1,2-Dichloroethene	ug/kg	1000	825	83	61-125	
cis-1,3-Dichloropropene	ug/kg	1000	820	82	61-125	
Dibromochloromethane	ug/kg	1000	793	79	60-125	
Dibromomethane	ug/kg	1000	771	77	69-125	
Dichlorodifluoromethane	ug/kg	1000	727	73	38-125	
Dichlorofluoromethane	ug/kg	1000	1400	140	67-125	CH,L3,N2
Diethyl ether (Ethyl ether)	ug/kg	1000	842	84	60-125	
Ethylbenzene	ug/kg	1000	878	88	62-125	
Hexachloro-1,3-butadiene	ug/kg	1000	864	86	56-125	
Isopropylbenzene (Cumene)	ug/kg	1000	961	96	65-125	
Methyl-tert-butyl ether	ug/kg	1000	821	82	59-125	
Methylene Chloride	ug/kg	1000	729	73	64-125	
n-Butylbenzene	ug/kg	1000	942	94	59-125	
n-Propylbenzene	ug/kg	1000	902	90	61-125	
Naphthalene	ug/kg	1000	818	82	53-125	
p-Isopropyltoluene	ug/kg	1000	933	93	63-125	
sec-Butylbenzene	ug/kg	1000	957	96	62-125	
Styrene	ug/kg	1000	893	89	66-125	
tert-Butylbenzene	ug/kg	1000	974	97	64-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3110337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/kg	1000	878	88	67-125	
Tetrahydrofuran	ug/kg	10000	8660	87	62-125	
Toluene	ug/kg	1000	840	84	61-125	
trans-1,2-Dichloroethene	ug/kg	1000	802	80	64-125	
trans-1,3-Dichloropropene	ug/kg	1000	803	80	56-125	
Trichloroethene	ug/kg	1000	844	84	67-125	
Trichlorofluoromethane	ug/kg	1000	1660	166	65-125	CH,L3
Vinyl chloride	ug/kg	1000	911	91	57-125	
Xylene (Total)	ug/kg	3000	2740	91	62-125	
1,2-Dichloroethane-d4 (S)	%			94	75-125	
4-Bromofluorobenzene (S)	%			104	75-125	
Toluene-d8 (S)	%			99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3110338 3110339

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10453199006 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/kg	ND	1460	1470	1630	1940	112	132	64-146	17	30
1,1,1-Trichloroethane	ug/kg	ND	1460	1470	1600	1890	110	129	56-148	17	30
1,1,2,2-Tetrachloroethane	ug/kg	ND	1460	1470	2560	1910	175	130	36-150	29	30 M1
1,1,2-Trichloroethane	ug/kg	ND	1460	1470	1710	1740	117	119	67-148	2	30
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	1460	1470	1390	1740	95	118	60-142	22	30
1,1-Dichloroethane	ug/kg	ND	1460	1470	1560	1830	107	124	57-140	16	30
1,1-Dichloroethene	ug/kg	ND	1460	1470	1390	1750	95	119	59-139	23	30
1,1-Dichloropropene	ug/kg	ND	1460	1470	1610	1940	110	132	61-142	19	30
1,2,3-Trichlorobenzene	ug/kg	ND	1460	1470	1850	1890	127	128	69-150	2	30
1,2,3-Trichloropropane	ug/kg	ND	1460	1470	1800	1800	123	122	64-150	0	30
1,2,4-Trichlorobenzene	ug/kg	ND	1460	1470	1820	1900	125	129	71-149	4	30
1,2,4-Trimethylbenzene	ug/kg	ND	1460	1470	1760	1990	120	135	67-149	12	30
1,2-Dibromo-3-chloropropane	ug/kg	ND	3660	3670	4190	4700	115	128	61-150	12	30
1,2-Dibromoethane (EDB)	ug/kg	ND	1460	1470	1500	1780	103	121	67-147	17	30
1,2-Dichlorobenzene	ug/kg	ND	1460	1470	1650	1870	113	127	70-142	12	30
1,2-Dichloroethane	ug/kg	ND	1460	1470	1430	1700	98	115	58-132	17	30
1,2-Dichloropropane	ug/kg	ND	1460	1470	1560	1780	107	121	64-144	13	30
1,3,5-Trimethylbenzene	ug/kg	ND	1460	1470	1750	1970	119	134	71-146	12	30
1,3-Dichlorobenzene	ug/kg	ND	1460	1470	1650	1930	113	131	71-142	15	30
1,3-Dichloropropane	ug/kg	ND	1460	1470	1590	1830	109	124	68-140	14	30
1,4-Dichlorobenzene	ug/kg	ND	1460	1470	1560	1800	107	122	68-142	14	30
2,2-Dichloropropane	ug/kg	ND	1460	1470	1580	1920	108	130	34-150	19	30
2-Butanone (MEK)	ug/kg	ND	7310	7350	8480	8910	116	121	51-150	5	30
2-Chlorotoluene	ug/kg	ND	1460	1470	1630	1900	112	129	66-144	15	30
4-Chlorotoluene	ug/kg	ND	1460	1470	1680	1970	115	134	66-140	16	30
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	7310	7350	10200	9210	140	125	63-150	11	30
Acetone	ug/kg	ND	7310	7350	8540	9860	117	134	54-150	14	30

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3110338 3110339												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10453199006	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Allyl chloride	ug/kg	ND	1460	1470	1440	1690	98	115	53-135	16	30	
Benzene	ug/kg	ND	1460	1470	1580	1870	108	127	65-135	17	30	
Bromobenzene	ug/kg	ND	1460	1470	1570	1900	108	129	71-141	19	30	
Bromochloromethane	ug/kg	ND	1460	1470	1450	1720	99	117	62-145	17	30	
Bromodichloromethane	ug/kg	ND	1460	1470	1550	1830	106	125	59-148	17	30	
Bromoform	ug/kg	ND	1460	1470	1580	1850	108	126	57-145	16	30	
Bromomethane	ug/kg	ND	1460	1470	1590	1670	109	114	51-129	5	30	
Carbon tetrachloride	ug/kg	ND	1460	1470	1610	1980	110	135	55-144	21	30	
Chlorobenzene	ug/kg	ND	1460	1470	1660	1860	114	126	70-142	11	30	
Chloroethane	ug/kg	ND	1460	1470	1510	1530	103	104	61-135	1	30	
Chloroform	ug/kg	ND	1460	1470	1450	1710	99	116	58-135	16	30	
Chloromethane	ug/kg	ND	1460	1470	1260	1300	86	88	37-125	3	30	
cis-1,2-Dichloroethene	ug/kg	ND	1460	1470	1480	1790	101	122	60-138	19	30	
cis-1,3-Dichloropropene	ug/kg	ND	1460	1470	1560	1810	106	123	62-142	15	30	
Dibromochloromethane	ug/kg	ND	1460	1470	1540	1780	105	121	65-141	15	30	
Dibromomethane	ug/kg	ND	1460	1470	1470	1730	100	118	72-150	16	30	
Dichlorodifluoromethane	ug/kg	ND	1460	1470	948	882	65	60	30-125	7	30	
Dichlorofluoromethane	ug/kg	ND	1460	1470	1950	1940	134	132	62-148	1	30	CH,N2
Diethyl ether (Ethyl ether)	ug/kg	ND	1460	1470	1470	1720	101	117	62-135	16	30	
Ethylbenzene	ug/kg	ND	1460	1470	1660	1950	113	133	72-138	16	30	
Hexachloro-1,3-butadiene	ug/kg	ND	1460	1470	2680	2000	183	136	38-150	29	30	M1
Isopropylbenzene (Cumene)	ug/kg	ND	1460	1470	1850	2070	126	141	75-148	12	30	
Methyl-tert-butyl ether	ug/kg	ND	1460	1470	1550	1860	106	127	63-139	18	30	
Methylene Chloride	ug/kg	ND	1460	1470	1370	1610	93	109	58-135	16	30	
n-Butylbenzene	ug/kg	ND	1460	1470	2240	2120	153	144	63-150	6	30	M1
n-Propylbenzene	ug/kg	ND	1460	1470	1750	2030	119	138	70-146	15	30	
Naphthalene	ug/kg	ND	1460	1470	1810	1970	124	134	63-150	9	30	
p-Isopropyltoluene	ug/kg	ND	1460	1470	1910	2060	131	140	72-150	7	30	
sec-Butylbenzene	ug/kg	ND	1460	1470	1960	2110	134	143	66-150	7	30	
Styrene	ug/kg	ND	1460	1470	1730	1950	118	133	72-146	12	30	
tert-Butylbenzene	ug/kg	ND	1460	1470	1920	2140	131	146	71-148	11	30	
Tetrachloroethene	ug/kg	ND	1460	1470	1620	1940	111	132	70-150	18	30	
Tetrahydrofuran	ug/kg	ND	14600	14700	16400	18800	112	128	62-150	14	30	
Toluene	ug/kg	ND	1460	1470	1590	1860	109	127	65-142	15	30	
trans-1,2-Dichloroethene	ug/kg	ND	1460	1470	1400	1750	96	119	55-141	22	30	
trans-1,3-Dichloropropene	ug/kg	ND	1460	1470	1540	1800	105	122	57-147	16	30	
Trichloroethene	ug/kg	ND	1460	1470	1570	1900	108	129	62-150	19	30	
Trichlorofluoromethane	ug/kg	ND	1460	1470	1880	1740	129	119	51-150	7	30	CH
Vinyl chloride	ug/kg	ND	1460	1470	1380	1470	95	100	45-132	6	30	
Xylene (Total)	ug/kg	ND	4380	4410	5230	6030	119	137	75-140	14	30	
1,2-Dichloroethane-d4 (S)	%						96	93	75-125			C0
4-Bromofluorobenzene (S)	%						162	111	75-125			S2
Toluene-d8 (S)	%						100	99	75-125			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

QC Batch: 572529 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water  
Associated Lab Samples: 10452955043, 10452955044, 10452955046

METHOD BLANK: 3106479 Matrix: Water

Associated Lab Samples: 10452955043, 10452955044, 10452955046

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0	10/31/18 10:51	
1,1-Dichloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1-Dichloroethene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,1-Dichloropropene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,2,3-Trichlorobenzene	ug/L	4.0 U	4.0	10/31/18 10:51	MN
1,2,3-Trichloropropane	ug/L	4.0 U	4.0	10/31/18 10:51	
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,2,4-Trimethylbenzene	ug/L	1.0 U	1.0	10/31/18 10:51	MN
1,2-Dibromo-3-chloropropane	ug/L	4.0 U	4.0	10/31/18 10:51	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50	10/31/18 10:51	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,2-Dichloroethane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,2-Dichloropropane	ug/L	4.0 U	4.0	10/31/18 10:51	
1,3,5-Trimethylbenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
1,3-Dichloropropane	ug/L	0.50 U	0.50	10/31/18 10:51	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
2,2-Dichloropropane	ug/L	1.0 U	1.0	10/31/18 10:51	
2-Butanone (MEK)	ug/L	5.0 U	5.0	10/31/18 10:51	
2-Chlorotoluene	ug/L	0.50 U	0.50	10/31/18 10:51	
4-Chlorotoluene	ug/L	0.50 U	0.50	10/31/18 10:51	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0	10/31/18 10:51	
Acetone	ug/L	20.0 U	20.0	10/31/18 10:51	
Allyl chloride	ug/L	4.0 U	4.0	10/31/18 10:51	
Benzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Bromobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Bromochloromethane	ug/L	1.0 U	1.0	10/31/18 10:51	
Bromodichloromethane	ug/L	0.50 U	0.50	10/31/18 10:51	
Bromoform	ug/L	4.0 U	4.0	10/31/18 10:51	
Bromomethane	ug/L	4.0 U	4.0	10/31/18 10:51	
Carbon tetrachloride	ug/L	0.50 U	0.50	10/31/18 10:51	
Chlorobenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Chloroethane	ug/L	1.0 U	1.0	10/31/18 10:51	
Chloroform	ug/L	1.0 U	1.0	10/31/18 10:51	
Chloromethane	ug/L	4.0 U	4.0	10/31/18 10:51	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50	10/31/18 10:51	
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50	10/31/18 10:51	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3106479

Matrix: Water

Associated Lab Samples: 10452955043, 10452955044, 10452955046

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	0.50 U	0.50	10/31/18 10:51	
Dibromomethane	ug/L	1.0 U	1.0	10/31/18 10:51	
Dichlorodifluoromethane	ug/L	1.0 U	1.0	10/31/18 10:51	
Dichlorofluoromethane	ug/L	1.0 U	1.0	10/31/18 10:51	N2
Diethyl ether (Ethyl ether)	ug/L	4.0 U	4.0	10/31/18 10:51	
Ethylbenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Hexachloro-1,3-butadiene	ug/L	1.0 U	1.0	10/31/18 10:51	
Isopropylbenzene (Cumene)	ug/L	1.0 U	1.0	10/31/18 10:51	MN
m&p-Xylene	ug/L	1.0 U	1.0	10/31/18 10:51	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50	10/31/18 10:51	
Methylene Chloride	ug/L	4.0 U	4.0	10/31/18 10:51	
n-Butylbenzene	ug/L	1.0 U	1.0	10/31/18 10:51	MN
n-Propylbenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Naphthalene	ug/L	1.0 U	1.0	10/31/18 10:51	
o-Xylene	ug/L	0.50 U	0.50	10/31/18 10:51	
p-Isopropyltoluene	ug/L	1.0 U	1.0	10/31/18 10:51	MN
sec-Butylbenzene	ug/L	1.0 U	1.0	10/31/18 10:51	MN
Styrene	ug/L	1.0 U	1.0	10/31/18 10:51	MN
tert-Butylbenzene	ug/L	0.50 U	0.50	10/31/18 10:51	
Tetrachloroethene	ug/L	0.50 U	0.50	10/31/18 10:51	
Tetrahydrofuran	ug/L	10.0 U	10.0	10/31/18 10:51	
Toluene	ug/L	0.50 U	0.50	10/31/18 10:51	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50	10/31/18 10:51	
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50	10/31/18 10:51	
Trichloroethene	ug/L	0.40 U	0.40	10/31/18 10:51	
Trichlorofluoromethane	ug/L	0.50 U	0.50	10/31/18 10:51	
Vinyl chloride	ug/L	0.20 U	0.20	10/31/18 10:51	
Xylene (Total)	ug/L	1.5 U	1.5	10/31/18 10:51	
1,2-Dichloroethane-d4 (S)	%	103	75-125	10/31/18 10:51	
4-Bromofluorobenzene (S)	%	100	75-125	10/31/18 10:51	
Toluene-d8 (S)	%	101	75-125	10/31/18 10:51	

LABORATORY CONTROL SAMPLE: 3106480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	8.9	89	75-125	
1,1,1-Trichloroethane	ug/L	10	8.9	89	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	8.5	85	75-125	
1,1,2-Trichloroethane	ug/L	10	8.9	89	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	10	7.9	79	72-125	
1,1-Dichloroethane	ug/L	10	8.8	88	75-125	
1,1-Dichloroethene	ug/L	10	8.2	82	73-125	
1,1-Dichloropropene	ug/L	10	8.4	84	73-125	
1,2,3-Trichlorobenzene	ug/L	10	8.3	83	72-130	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3106480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	10	9.0	90	75-125	
1,2,4-Trichlorobenzene	ug/L	10	9.1	91	75-125	
1,2,4-Trimethylbenzene	ug/L	10	8.6	86	75-125	
1,2-Dibromo-3-chloropropane	ug/L	25	21.2	85	64-133	
1,2-Dibromoethane (EDB)	ug/L	10	9.1	91	75-125	
1,2-Dichlorobenzene	ug/L	10	8.6	86	75-125	
1,2-Dichloroethane	ug/L	10	9.0	90	75-125	
1,2-Dichloropropane	ug/L	10	8.7	87	75-125	
1,3,5-Trimethylbenzene	ug/L	10	8.8	88	75-125	
1,3-Dichlorobenzene	ug/L	10	8.7	87	75-125	
1,3-Dichloropropane	ug/L	10	8.9	89	75-125	
1,4-Dichlorobenzene	ug/L	10	8.3	83	75-125	
2,2-Dichloropropane	ug/L	10	9.0	90	68-129	
2-Butanone (MEK)	ug/L	50	40.5	81	65-126	
2-Chlorotoluene	ug/L	10	9.2	92	75-125	
4-Chlorotoluene	ug/L	10	8.8	88	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	44.8	90	75-131	
Acetone	ug/L	50	44.4	89	68-150	
Allyl chloride	ug/L	10	7.6	76	67-126	
Benzene	ug/L	10	8.7	87	75-125	
Bromobenzene	ug/L	10	8.7	87	75-125	
Bromochloromethane	ug/L	10	8.7	87	75-125	
Bromodichloromethane	ug/L	10	8.8	88	75-125	
Bromoform	ug/L	10	8.8	88	70-125	
Bromomethane	ug/L	10	10.1	101	30-145	
Carbon tetrachloride	ug/L	10	9.4	94	75-125	
Chlorobenzene	ug/L	10	9.2	92	75-125	
Chloroethane	ug/L	10	9.8	98	73-131	
Chloroform	ug/L	10	8.9	89	75-125	
Chloromethane	ug/L	10	8.0	80	52-132	
cis-1,2-Dichloroethene	ug/L	10	8.7	87	75-125	
cis-1,3-Dichloropropene	ug/L	10	8.3	83	75-125	
Dibromochloromethane	ug/L	10	8.6	86	75-125	
Dibromomethane	ug/L	10	8.8	88	75-125	
Dichlorodifluoromethane	ug/L	10	8.4	84	64-127	
Dichlorofluoromethane	ug/L	10	9.3	93	75-125 N2	
Diethyl ether (Ethyl ether)	ug/L	10	8.2	82	75-125	
Ethylbenzene	ug/L	10	9.0	90	75-125	
Hexachloro-1,3-butadiene	ug/L	10	8.4	84	75-130	
Isopropylbenzene (Cumene)	ug/L	10	8.8	88	75-125	
m&p-Xylene	ug/L	20	18.7	94	75-125	
Methyl-tert-butyl ether	ug/L	10	8.5	85	75-125	
Methylene Chloride	ug/L	10	8.4	84	72-125	
n-Butylbenzene	ug/L	10	8.5	85	75-125	
n-Propylbenzene	ug/L	10	9.2	92	75-125	
Naphthalene	ug/L	10	8.8	88	61-136	
o-Xylene	ug/L	10	10	100	75-125	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3106480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	10	8.3	83	75-125	
sec-Butylbenzene	ug/L	10	8.5	85	75-125	
Styrene	ug/L	10	8.9	89	75-125	
tert-Butylbenzene	ug/L	10	9.7	97	75-125	
Tetrachloroethene	ug/L	10	9.1	91	75-125	
Tetrahydrofuran	ug/L	100	90.9	91	64-150	
Toluene	ug/L	10	8.7	87	75-125	
trans-1,2-Dichloroethene	ug/L	10	8.8	88	75-125	
trans-1,3-Dichloropropene	ug/L	10	9.3	93	75-125	
Trichloroethene	ug/L	10	8.9	89	75-125	
Trichlorofluoromethane	ug/L	10	9.2	92	74-126	
Vinyl chloride	ug/L	10	8.9	89	71-130	
Xylene (Total)	ug/L	30	28.7	96	75-125	
1,2-Dichloroethane-d4 (S)	%			102	75-125	
4-Bromofluorobenzene (S)	%			97	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108712 3108713

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10453870001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	10	10	10.5	9.6	105	96	75-125	9	30	
1,1,1-Trichloroethane	ug/L	0.50 U	10	10	11.3	10.4	113	104	75-129	8	30	
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	10	10	10.5	8.8	105	88	75-125	17	30	
1,1,2-Trichloroethane	ug/L	0.50 U	10	10	10.4	9.2	104	92	75-125	13	30	
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	10	10	10.9	9.8	109	98	75-136	11	30	
1,1-Dichloroethane	ug/L	0.50 U	10	10	10.4	9.6	104	96	75-125	7	30	
1,1-Dichloroethene	ug/L	0.50 U	10	10	11.0	9.6	110	96	75-127	13	30	
1,1-Dichloropropene	ug/L	0.50 U	10	10	11.2	10.1	112	101	75-129	10	30	
1,2,3-Trichlorobenzene	ug/L	4.0 U	10	10	9.8	9.0	98	90	72-137	8	30	
1,2,3-Trichloropropane	ug/L	4.0 U	10	10	10.6	9.3	106	93	75-125	13	30	
1,2,4-Trichlorobenzene	ug/L	0.50 U	10	10	11.0	9.9	110	99	69-131	11	30	
1,2,4-Trimethylbenzene	ug/L	1.2	10	10	11.5	9.7	103	85	71-125	16	30	
1,2-Dibromo-3-chloropropane	ug/L	4.0 U	25	25	26.0	23.4	104	94	61-127	10	30	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	10	10	10.3	9.2	103	92	75-125	11	30	
1,2-Dichlorobenzene	ug/L	0.50 U	10	10	10.1	9.0	101	90	75-125	11	30	
1,2-Dichloroethane	ug/L	2.0	10	10	12.0	11.4	100	94	69-125	5	30	
1,2-Dichloropropane	ug/L	4.0 U	10	10	10.3	9.0	103	90	75-125	14	30	
1,3,5-Trimethylbenzene	ug/L	0.14J	10	10	11.1	9.8	109	96	75-125	12	30	
1,3-Dichlorobenzene	ug/L	0.50 U	10	10	10.4	9.3	104	93	75-125	12	30	
1,3-Dichloropropane	ug/L	0.50 U	10	10	10.6	9.5	106	95	75-125	12	30	
1,4-Dichlorobenzene	ug/L	0.50 U	10	10	9.9	8.9	98	88	74-125	10	30	
2,2-Dichloropropane	ug/L	1.0 U	10	10	11.3	10.3	113	103	65-136	8	30	
2-Butanone (MEK)	ug/L	66.7	50	50	116	105	98	77	59-125	10	30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Parameter	Units	10453870001		3108712		3108713		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
2-Chlorotoluene	ug/L	0.50 U	10	10	11.4	10.0	114	100	73-126	12	30		
4-Chlorotoluene	ug/L	0.50 U	10	10	11.0	9.7	110	97	75-125	13	30		
4-Methyl-2-pentanone (MIBK)	ug/L	25.3	50	50	82.4	71.9	114	93	73-125	14	30		
Acetone	ug/L	259	50	50	314	305	111	92	75-150	3	30		
Allyl chloride	ug/L	4.0 U	10	10	10.2	9.2	102	92	71-127	10	30		
Benzene	ug/L	2.0	10	10	12.5	11.7	104	96	74-125	7	30		
Bromobenzene	ug/L	0.50 U	10	10	10.1	9.2	101	92	75-125	10	30		
Bromochloromethane	ug/L	1.0 U	10	10	9.7	9.1	97	91	75-125	6	30		
Bromodichloromethane	ug/L	0.50 U	10	10	10.1	9.6	101	96	75-125	5	30		
Bromoform	ug/L	4.0 U	10	10	9.5	8.5	95	85	68-125	11	30		
Bromomethane	ug/L	4.0 U	10	10	8.5	9.7	85	97	37-149	13	30		
Carbon tetrachloride	ug/L	0.50 U	10	10	12.4	11.1	124	111	75-127	11	30		
Chlorobenzene	ug/L	0.50 U	10	10	10.8	9.6	108	96	75-125	12	30		
Chloroethane	ug/L	2.7	10	10	13.4	12.5	108	98	73-134	7	30		
Chloroform	ug/L	1.0 U	10	10	10.3	9.6	103	96	71-125	7	30		
Chloromethane	ug/L	0.48J	10	10	7.9	7.5	75	71	58-133	5	30		
cis-1,2-Dichloroethene	ug/L	0.78	10	10	11.4	10.2	106	94	75-125	11	30		
cis-1,3-Dichloropropene	ug/L	0.50 U	10	10	9.6	8.6	96	86	71-125	11	30		
Dibromochloromethane	ug/L	0.50 U	10	10	9.9	8.6	99	86	75-125	14	30		
Dibromomethane	ug/L	1.0 U	10	10	10.1	9.1	101	91	75-125	11	30		
Dichlorodifluoromethane	ug/L	1.0 U	10	10	9.7	8.7	97	87	70-150	11	30		
Dichlorofluoromethane	ug/L	13.4	10	10	22.3	21.8	89	84	75-126	2	30	N2	
Diethyl ether (Ethyl ether)	ug/L	4.5	10	10	14.2	13.3	97	88	75-125	6	30		
Ethylbenzene	ug/L	1.5	10	10	12.7	11.5	112	100	75-125	10	30		
Hexachloro-1,3-butadiene	ug/L	1.0 U	10	10	10.3	9.5	103	95	60-150	8	30		
Isopropylbenzene (Cumene)	ug/L	1.8	10	10	12.5	10.8	107	90	75-125	14	30		
m&p-Xylene	ug/L	2.5	20	20	25.6	23.6	116	105	75-125	8	30		
Methyl-tert-butyl ether	ug/L	2.6	10	10	12.8	11.5	102	89	75-125	11	30		
Methylene Chloride	ug/L	1.3J	10	10	11.0	10.1	97	88	72-125	9	30		
n-Butylbenzene	ug/L	1.0 U	10	10	10.9	9.6	109	96	73-140	13	30		
n-Propylbenzene	ug/L	0.14J	10	10	11.7	10.2	116	100	75-126	14	30		
Naphthalene	ug/L	4.4	10	10	15.5	13.9	111	94	61-136	11	30		
o-Xylene	ug/L	2.2	10	10	14.6	12.9	125	107	75-125	13	30		
p-Isopropyltoluene	ug/L	0.99J	10	10	12.3	10.9	113	99	73-133	12	30		
sec-Butylbenzene	ug/L	1.0 U	10	10	10.9	9.8	109	98	75-132	11	30		
Styrene	ug/L	0.51J	10	10	10.4	9.2	99	87	71-125	12	30		
tert-Butylbenzene	ug/L	0.50 U	10	10	12.9	10.9	129	109	75-126	17	30	M1	
Tetrachloroethene	ug/L	0.50 U	10	10	11.3	10.2	113	102	75-125	10	30		
Tetrahydrofuran	ug/L	277	100	100	366	366	89	88	75-150	0	30		
Toluene	ug/L	4.8	10	10	15.2	14.4	104	96	74-125	6	30		
trans-1,2-Dichloroethene	ug/L	0.45J	10	10	11.2	10.1	108	97	75-125	10	30		
trans-1,3-Dichloropropene	ug/L	0.50 U	10	10	10.9	9.6	109	96	70-125	13	30		
Trichloroethene	ug/L	0.23J	10	10	11.4	10.2	111	100	75-125	11	30		
Trichlorofluoromethane	ug/L	0.50 U	10	10	9.8	9.0	98	90	75-135	8	30		
Vinyl chloride	ug/L	0.20 U	10	10	9.9	9.6	99	96	74-141	3	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Parameter	Units	3108712		3108713		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual	
		10453870001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result				MSD Result	RPD		RPD
Xylene (Total)	ug/L	4.7	30	30	40.3	36.5	119	106	75-125	10	30	
1,2-Dichloroethane-d4 (S)	%.						101	100	75-125			
4-Bromofluorobenzene (S)	%.						100	99	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner  
Pace Project No.: 10452955

QC Batch: 573624 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water  
Associated Lab Samples: 10452955045

METHOD BLANK: 3113658 Matrix: Water  
Associated Lab Samples: 10452955045

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1,1-Trichloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1,2-Trichloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0	11/06/18 11:14	
1,1-Dichloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1-Dichloroethene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,1-Dichloropropene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,2,3-Trichlorobenzene	ug/L	4.0 U	4.0	11/06/18 11:14	MN
1,2,3-Trichloropropane	ug/L	4.0 U	4.0	11/06/18 11:14	
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,2,4-Trimethylbenzene	ug/L	1.0 U	1.0	11/06/18 11:14	MN
1,2-Dibromo-3-chloropropane	ug/L	4.0 U	4.0	11/06/18 11:14	
1,2-Dibromoethane (EDB)	ug/L	0.50 U	0.50	11/06/18 11:14	
1,2-Dichlorobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,2-Dichloroethane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,2-Dichloropropane	ug/L	4.0 U	4.0	11/06/18 11:14	
1,3,5-Trimethylbenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,3-Dichlorobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
1,3-Dichloropropane	ug/L	0.50 U	0.50	11/06/18 11:14	
1,4-Dichlorobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
2,2-Dichloropropane	ug/L	1.0 U	1.0	11/06/18 11:14	
2-Butanone (MEK)	ug/L	5.0 U	5.0	11/06/18 11:14	
2-Chlorotoluene	ug/L	0.50 U	0.50	11/06/18 11:14	
4-Chlorotoluene	ug/L	0.50 U	0.50	11/06/18 11:14	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	5.0	11/06/18 11:14	
Acetone	ug/L	20.0 U	20.0	11/06/18 11:14	
Allyl chloride	ug/L	4.0 U	4.0	11/06/18 11:14	
Benzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Bromobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Bromochloromethane	ug/L	1.0 U	1.0	11/06/18 11:14	
Bromodichloromethane	ug/L	0.50 U	0.50	11/06/18 11:14	
Bromoform	ug/L	4.0 U	4.0	11/06/18 11:14	
Bromomethane	ug/L	4.0 U	4.0	11/06/18 11:14	
Carbon tetrachloride	ug/L	0.50 U	0.50	11/06/18 11:14	
Chlorobenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Chloroethane	ug/L	1.0 U	1.0	11/06/18 11:14	
Chloroform	ug/L	1.0 U	1.0	11/06/18 11:14	
Chloromethane	ug/L	4.0 U	4.0	11/06/18 11:14	
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50	11/06/18 11:14	
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50	11/06/18 11:14	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

METHOD BLANK: 3113658

Matrix: Water

Associated Lab Samples: 10452955045

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	0.50 U	0.50	11/06/18 11:14	
Dibromomethane	ug/L	1.0 U	1.0	11/06/18 11:14	
Dichlorodifluoromethane	ug/L	1.0 U	1.0	11/06/18 11:14	
Dichlorofluoromethane	ug/L	1.0 U	1.0	11/06/18 11:14	N2
Diethyl ether (Ethyl ether)	ug/L	4.0 U	4.0	11/06/18 11:14	
Ethylbenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Hexachloro-1,3-butadiene	ug/L	1.0 U	1.0	11/06/18 11:14	
Isopropylbenzene (Cumene)	ug/L	1.0 U	1.0	11/06/18 11:14	MN
m&p-Xylene	ug/L	1.0 U	1.0	11/06/18 11:14	
Methyl-tert-butyl ether	ug/L	0.50 U	0.50	11/06/18 11:14	
Methylene Chloride	ug/L	4.0 U	4.0	11/06/18 11:14	
n-Butylbenzene	ug/L	1.0 U	1.0	11/06/18 11:14	MN
n-Propylbenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Naphthalene	ug/L	1.0 U	1.0	11/06/18 11:14	
o-Xylene	ug/L	0.50 U	0.50	11/06/18 11:14	
p-Isopropyltoluene	ug/L	1.0 U	1.0	11/06/18 11:14	MN
sec-Butylbenzene	ug/L	1.0 U	1.0	11/06/18 11:14	MN
Styrene	ug/L	1.0 U	1.0	11/06/18 11:14	
tert-Butylbenzene	ug/L	0.50 U	0.50	11/06/18 11:14	
Tetrachloroethene	ug/L	0.50 U	0.50	11/06/18 11:14	
Tetrahydrofuran	ug/L	10.0 U	10.0	11/06/18 11:14	
Toluene	ug/L	0.50 U	0.50	11/06/18 11:14	
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50	11/06/18 11:14	
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50	11/06/18 11:14	
Trichloroethene	ug/L	0.40 U	0.40	11/06/18 11:14	
Trichlorofluoromethane	ug/L	0.50 U	0.50	11/06/18 11:14	
Vinyl chloride	ug/L	0.20 U	0.20	11/06/18 11:14	
Xylene (Total)	ug/L	1.5 U	1.5	11/06/18 11:14	
1,2-Dichloroethane-d4 (S)	%	99	75-125	11/06/18 11:14	
4-Bromofluorobenzene (S)	%	100	75-125	11/06/18 11:14	
Toluene-d8 (S)	%	103	75-125	11/06/18 11:14	

LABORATORY CONTROL SAMPLE: 3113659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	10	10.9	109	75-125	
1,1,1-Trichloroethane	ug/L	10	9.4	94	75-125	
1,1,2,2-Tetrachloroethane	ug/L	10	9.6	96	75-125	
1,1,2-Trichloroethane	ug/L	10	9.9	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	10	8.6	86	72-125	
1,1-Dichloroethane	ug/L	10	8.0	80	75-125	
1,1-Dichloroethene	ug/L	10	8.8	88	73-125	
1,1-Dichloropropene	ug/L	10	8.7	87	73-125	
1,2,3-Trichlorobenzene	ug/L	10	9.8	98	72-130	

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3113659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	10	11.1	111	75-125	
1,2,4-Trichlorobenzene	ug/L	10	11.2	112	75-125	
1,2,4-Trimethylbenzene	ug/L	10	10.1	101	75-125	
1,2-Dibromo-3-chloropropane	ug/L	25	28.0	112	64-133	
1,2-Dibromoethane (EDB)	ug/L	10	9.8	98	75-125	
1,2-Dichlorobenzene	ug/L	10	10.6	106	75-125	
1,2-Dichloroethane	ug/L	10	9.7	97	75-125	
1,2-Dichloropropane	ug/L	10	8.8	88	75-125	
1,3,5-Trimethylbenzene	ug/L	10	11.0	110	75-125	
1,3-Dichlorobenzene	ug/L	10	10.8	108	75-125	
1,3-Dichloropropane	ug/L	10	10.4	104	75-125	
1,4-Dichlorobenzene	ug/L	10	10.3	103	75-125	
2,2-Dichloropropane	ug/L	10	9.5	95	68-129	
2-Butanone (MEK)	ug/L	50	41.4	83	65-126	
2-Chlorotoluene	ug/L	10	10.9	109	75-125	
4-Chlorotoluene	ug/L	10	10.6	106	75-125	
4-Methyl-2-pentanone (MIBK)	ug/L	50	48.0	96	75-131	
Acetone	ug/L	50	44.7	89	68-150	
Allyl chloride	ug/L	10	6.6	66	67-126	L2
Benzene	ug/L	10	8.6	86	75-125	
Bromobenzene	ug/L	10	10.6	106	75-125	
Bromochloromethane	ug/L	10	9.4	94	75-125	
Bromodichloromethane	ug/L	10	10	100	75-125	
Bromoform	ug/L	10	12.1	121	70-125	
Bromomethane	ug/L	10	8.7	87	30-145	
Carbon tetrachloride	ug/L	10	10.6	106	75-125	
Chlorobenzene	ug/L	10	10.7	107	75-125	
Chloroethane	ug/L	10	9.2	92	73-131	
Chloroform	ug/L	10	8.9	89	75-125	
Chloromethane	ug/L	10	6.7	67	52-132	
cis-1,2-Dichloroethene	ug/L	10	8.8	88	75-125	
cis-1,3-Dichloropropene	ug/L	10	11.1	111	75-125	
Dibromochloromethane	ug/L	10	10.9	109	75-125	
Dibromomethane	ug/L	10	10.4	104	75-125	
Dichlorodifluoromethane	ug/L	10	10.2	102	64-127	
Dichlorofluoromethane	ug/L	10	8.8	88	75-125	N2
Diethyl ether (Ethyl ether)	ug/L	10	8.3	83	75-125	
Ethylbenzene	ug/L	10	10.4	104	75-125	
Hexachloro-1,3-butadiene	ug/L	10	10.6	106	75-130	
Isopropylbenzene (Cumene)	ug/L	10	10	100	75-125	
m&p-Xylene	ug/L	20	21.8	109	75-125	
Methyl-tert-butyl ether	ug/L	10	8.7	87	75-125	
Methylene Chloride	ug/L	10	8.0	80	72-125	
n-Butylbenzene	ug/L	10	9.7	97	75-125	
n-Propylbenzene	ug/L	10	10.6	106	75-125	
Naphthalene	ug/L	10	10.5	105	61-136	
o-Xylene	ug/L	10	11.3	113	75-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

LABORATORY CONTROL SAMPLE: 3113659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	10	10.0	100	75-125	
sec-Butylbenzene	ug/L	10	10.2	102	75-125	
Styrene	ug/L	10	9.7	97	75-125	
tert-Butylbenzene	ug/L	10	11.9	119	75-125	
Tetrachloroethene	ug/L	10	11.2	112	75-125	
Tetrahydrofuran	ug/L	100	98.4	98	64-150	
Toluene	ug/L	10	9.6	96	75-125	
trans-1,2-Dichloroethene	ug/L	10	8.6	86	75-125	
trans-1,3-Dichloropropene	ug/L	10	10.8	108	75-125	
Trichloroethene	ug/L	10	9.8	98	75-125	
Trichlorofluoromethane	ug/L	10	9.8	98	74-126	
Vinyl chloride	ug/L	10	8.9	89	71-130	
Xylene (Total)	ug/L	30	33.2	111	75-125	
1,2-Dichloroethane-d4 (S)	%			101	75-125	
4-Bromofluorobenzene (S)	%			93	75-125	
Toluene-d8 (S)	%			105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3113660 3113661

Parameter	Units	10453810010		3113660		3113661		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	10	10	11.4	10.2	114	102	75-125	12	30		
1,1,1-Trichloroethane	ug/L	ND	10	10	11.2	9.4	112	94	75-129	17	30		
1,1,2,2-Tetrachloroethane	ug/L	ND	10	10	10.2	8.2	102	82	75-125	21	30		
1,1,2-Trichloroethane	ug/L	ND	10	10	10.6	9.2	106	92	75-125	15	30		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10	10	10.6	9.3	106	93	75-136	13	30		
1,1-Dichloroethane	ug/L	ND	10	10	9.5	7.7	95	77	75-125	22	30		
1,1-Dichloroethene	ug/L	ND	10	10	10.4	8.5	104	85	75-127	20	30		
1,1-Dichloropropene	ug/L	ND	10	10	10.7	9.1	107	91	75-129	16	30		
1,2,3-Trichlorobenzene	ug/L	ND	10	10	10.2	9.1	102	91	72-137	12	30		
1,2,3-Trichloropropane	ug/L	ND	10	10	11.1	9.0	111	90	75-125	20	30		
1,2,4-Trichlorobenzene	ug/L	ND	10	10	11.3	10.4	113	104	69-131	9	30		
1,2,4-Trimethylbenzene	ug/L	ND	10	10	11.0	9.8	110	98	71-125	11	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	25	25	28.2	22.7	113	91	61-127	22	30		
1,2-Dibromoethane (EDB)	ug/L	ND	10	10	10.6	8.5	106	85	75-125	22	30		
1,2-Dichlorobenzene	ug/L	ND	10	10	10.9	9.7	109	97	75-125	11	30		
1,2-Dichloroethane	ug/L	ND	10	10	9.8	8.3	98	83	69-125	16	30		
1,2-Dichloropropane	ug/L	ND	10	10	9.6	8.2	96	82	75-125	16	30		
1,3,5-Trimethylbenzene	ug/L	ND	10	10	11.8	10.8	118	108	75-125	9	30		
1,3-Dichlorobenzene	ug/L	ND	10	10	11.5	10.3	115	103	75-125	10	30		
1,3-Dichloropropane	ug/L	ND	10	10	10.5	9.1	105	91	75-125	14	30		
1,4-Dichlorobenzene	ug/L	ND	10	10	10.7	9.4	107	94	74-125	13	30		
2,2-Dichloropropane	ug/L	ND	10	10	10.9	9.2	109	92	65-136	16	30		
2-Butanone (MEK)	ug/L	ND	50	50	44.4	35.3	86	68	59-125	23	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Parameter	Units	10453810010		3113660		3113661		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
2-Chlorotoluene	ug/L	ND	10	10	11.8	10.7	118	107	73-126	10	30		
4-Chlorotoluene	ug/L	ND	10	10	11.4	9.9	114	99	75-125	14	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	48.7	40.7	97	81	73-125	18	30		
Acetone	ug/L	34.0	50	50	87.5	74.0	107	80	75-150	17	30		
Allyl chloride	ug/L	ND	10	10	7.6	6.8	76	68	71-127	11	30	M0	
Benzene	ug/L	ND	10	10	9.8	8.5	98	85	74-125	14	30		
Bromobenzene	ug/L	ND	10	10	11.1	9.7	111	97	75-125	14	30		
Bromochloromethane	ug/L	ND	10	10	9.6	8.1	96	81	75-125	17	30		
Bromodichloromethane	ug/L	ND	10	10	10.6	8.8	106	88	75-125	19	30		
Bromoform	ug/L	ND	10	10	12.3	10.6	123	106	68-125	15	30		
Bromomethane	ug/L	ND	10	10	8.9	9.2	89	92	37-149	4	30		
Carbon tetrachloride	ug/L	ND	10	10	12.1	10.7	121	107	75-127	12	30		
Chlorobenzene	ug/L	ND	10	10	11.6	10	116	100	75-125	15	30		
Chloroethane	ug/L	ND	10	10	9.3	10.3	93	103	73-134	9	30		
Chloroform	ug/L	ND	10	10	9.4	8.2	94	82	71-125	14	30		
Chloromethane	ug/L	ND	10	10	5.8	8.0	58	80	58-133	33	30	R1	
cis-1,2-Dichloroethene	ug/L	ND	10	10	10.1	8.1	101	81	75-125	22	30		
cis-1,3-Dichloropropene	ug/L	ND	10	10	8.7	7.3	87	73	71-125	17	30		
Dibromochloromethane	ug/L	ND	10	10	11.2	9.5	112	95	75-125	17	30		
Dibromomethane	ug/L	ND	10	10	10.6	9.0	106	90	75-125	16	30		
Dichlorodifluoromethane	ug/L	ND	10	10	10.5	10.7	105	107	70-150	1	30		
Dichlorofluoromethane	ug/L	ND	10	10	8.1	8.4	81	84	75-126	4	30	N2	
Diethyl ether (Ethyl ether)	ug/L	ND	10	10	8.5	7.3	85	73	75-125	15	30	M1	
Ethylbenzene	ug/L	ND	10	10	11.6	10.3	116	103	75-125	12	30		
Hexachloro-1,3-butadiene	ug/L	ND	10	10	12.9	10.5	129	105	60-150	20	30		
Isopropylbenzene (Cumene)	ug/L	ND	10	10	10.8	10	108	100	75-125	8	30		
m&p-Xylene	ug/L	ND	20	20	24.3	21.2	122	106	75-125	14	30		
Methyl-tert-butyl ether	ug/L	ND	10	10	9.1	7.8	91	78	75-125	15	30		
Methylene Chloride	ug/L	ND	10	10	9.6	8.0	96	80	72-125	17	30		
n-Butylbenzene	ug/L	ND	10	10	10.3	10	103	100	73-140	3	30		
n-Propylbenzene	ug/L	ND	10	10	11.7	10.8	117	108	75-126	8	30		
Naphthalene	ug/L	ND	10	10	10.5	9.6	105	96	61-136	9	30		
o-Xylene	ug/L	ND	10	10	12.8	10.9	128	109	75-125	16	30	M1	
p-Isopropyltoluene	ug/L	ND	10	10	10.5	10.1	105	101	73-133	4	30		
sec-Butylbenzene	ug/L	ND	10	10	10.9	10.4	109	104	75-132	5	30		
Styrene	ug/L	ND	10	10	10.8	9.1	108	91	71-125	17	30		
tert-Butylbenzene	ug/L	ND	10	10	12.7	12.0	127	120	75-126	5	30	M1	
Tetrachloroethene	ug/L	ND	10	10	12.9	11.1	129	111	75-125	15	30	M1	
Tetrahydrofuran	ug/L	ND	100	100	108	87.2	108	87	75-150	22	30		
Toluene	ug/L	ND	10	10	11.1	9.0	111	90	74-125	20	30		
trans-1,2-Dichloroethene	ug/L	ND	10	10	9.9	8.3	99	83	75-125	17	30		
trans-1,3-Dichloropropene	ug/L	ND	10	10	11.5	9.8	115	98	70-125	16	30		
Trichloroethene	ug/L	ND	10	10	11.7	9.4	117	94	75-125	21	30		
Trichlorofluoromethane	ug/L	ND	10	10	10.1	10.1	101	101	75-135	0	30		
Vinyl chloride	ug/L	ND	10	10	9.0	9.2	90	92	74-141	1	30		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Parameter	Units	10453810010		3113660		3113661		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Xylene (Total)	ug/L	ND	30	30	37.1	32.2	124	107	75-125	14	30	MS		
1,2-Dichloroethane-d4 (S)	%.						97	99	75-125					
4-Bromofluorobenzene (S)	%.						97	98	75-125					
Toluene-d8 (S)	%.						104	106	75-125					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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 at or above the adjusted LOD.

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.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 572646

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

Batch: 572702

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

Batch: 573477

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

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

IS The internal standard response is below criteria. Results may be biased high.

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

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

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### ANALYTE QUALIFIERS

- MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter.
- R1 RPD value was outside control limits.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11139422 Former Lindey Cleaner

Pace Project No.: 10452955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10452955004	S-1801023-KJ-04A	ASTM D2974	571410		
10452955005	S-1801023-KJ-05A	ASTM D2974	571410		
10452955006	S-1801023-KJ-06A	ASTM D2974	571410		
10452955007	S-1801023-KJ-07A	ASTM D2974	571410		
10452955008	S-1801023-KJ-08A	ASTM D2974	571410		
10452955009	S-1801023-KJ-09A	ASTM D2974	571410		
10452955010	S-1801023-KJ-10A	ASTM D2974	573840		
10452955011	S-1801023-KJ-11A	ASTM D2974	573840		
10452955012	S-1801023-KJ-12A	ASTM D2974	573840		
10452955013	S-1801023-KJ-13A	ASTM D2974	573840		
10452955020	S-1801023-KJ-07B	ASTM D2974	573840		
10452955021	S-1801023-KJ-08B	ASTM D2974	573840		
10452955022	S-1801023-KJ-09B	ASTM D2974	573840		
10452955033	S-1801023-KJ-07C	ASTM D2974	573998		
10452955034	S-1801023-KJ-08C	ASTM D2974	573998		
10452955035	S-1801023-KJ-09C	ASTM D2974	573998		
10452955004	S-1801023-KJ-04A	EPA 5035 Low	572696	EPA 8260B	572702
10452955005	S-1801023-KJ-05A	EPA 5035 Low	571743	EPA 8260B	572646
10452955006	S-1801023-KJ-06A	EPA 5035 Low	571743	EPA 8260B	572646
10452955007	S-1801023-KJ-07A	EPA 5035 Low	571743	EPA 8260B	572646
10452955008	S-1801023-KJ-08A	EPA 5035 Low	572696	EPA 8260B	572702
10452955009	S-1801023-KJ-09A	EPA 5035 Low	571743	EPA 8260B	572646
10452955010	S-1801023-KJ-10A	EPA 5035 Low	573139	EPA 8260B	573477
10452955011	S-1801023-KJ-11A	EPA 5035 Low	573139	EPA 8260B	573477
10452955012	S-1801023-KJ-12A	EPA 5035 Low	573139	EPA 8260B	573477
10452955013	S-1801023-KJ-13A	EPA 5035 Low	573139	EPA 8260B	573477
10452955020	S-1801023-KJ-07B	EPA 5035 Low	573139	EPA 8260B	573477
10452955021	S-1801023-KJ-08B	EPA 5035 Low	573139	EPA 8260B	573477
10452955022	S-1801023-KJ-09B	EPA 5035 Low	573139	EPA 8260B	573477
10452955033	S-1801023-KJ-07C	EPA 5035 Low	573139	EPA 8260B	573477
10452955034	S-1801023-KJ-08C	EPA 5035 Low	573139	EPA 8260B	573477
10452955035	S-1801023-KJ-09C	EPA 5035 Low	573139	EPA 8260B	573477
10452955048	U TRIP BLANK	EPA 5035 Low	571743	EPA 8260B	572646
10452955047	S TRIP BLANK	EPA 5035/5030B	573192	EPA 8260B	573223
10452955043	W-181023-KS-01	EPA 8260B	572529		
10452955044	W-181023-KS-02	EPA 8260B	572529		
10452955045	W-181023-KS-03	EPA 8260B	573624		
10452955046	W TRIP BLANK	EPA 8260B	572529		

### REPORT OF LABORATORY ANALYSIS

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**CONESTOGA-ROVERS & ASSOCIATES**

# CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114

St. Paul, Minnesota 55112 United States

Phone: (651) 639-0913

Fax: (651) 639-0923

COC NO.: **SP-02732**

PAGE **2** OF **4**

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: <b>11139422</b>				Laboratory Name: <b>DACE</b>				Lab Location:				SSOW ID:																									
Project Name: <b>Former Lindey Cleaners</b>				Lab Contact:				Lab Quote No:				Cooler No:																									
Project Location: <b>Rhineland, WI</b>				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier:																									
Chemistry Contact: <b>Grant Anderson</b>				<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>Matrix Code (see back of COC)</th> <th>Grab (G) or Comp (C)</th> <th>Unpreserved</th> <th>Hydrochloric Acid (HCl)</th> <th>Nitric Acid (HNO<sub>3</sub>)</th> <th>Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)</th> <th>Sodium Hydroxide (NaOH)</th> <th>Methanol/Water (Soil VOC)</th> <th>EnCores 3x5-g, 1x25-g</th> <th>Other:</th> <th>Total Containers/Sample</th> <th>MS/MSD Request</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>9260B</b></td> <td><b>low level</b></td> </tr> </table>				SAMPLE TYPE	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO <sub>3</sub> )	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request												<b>9260B</b>	<b>low level</b>	Airbill No:			
SAMPLE TYPE	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved					Hydrochloric Acid (HCl)	Nitric Acid (HNO <sub>3</sub> )	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request																					
											<b>9260B</b>	<b>low level</b>																									
Sampler(s): <b>K. Jenkin</b>												Date Shipped:																									
Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)			DATE (mm/dd/yy)	TIME (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO <sub>3</sub> )	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:																			
1	S-100023-KS-01B			10/23/18	1155	SO	C	3										HOLD 014																			
2	02B				1100													015																			
3	03B				1140													016																			
4	04B				1215													017																			
5	05B				1230													018																			
6	06B				1245													019																			
7	07B				1255													020																			
8	08B				1310													021																			
9	09B				1325													022																			
10	10B				1340													023																			
11	11B				1355													024																			
12	12B				1410													025																			
13	13B				1430													026																			
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other:				Total Number of Containers:				Notes/ Special Requirements:																													
All Samples in Cooler must be on COC																																					
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME																														
1. Kiel Jenkin	GHD	10/24/18	1400	1. [Signature]	DACE	10/24/18	1400																														
2.				2.																																	
3.				3.																																	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY





# CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114

St. Paul, Minnesota 55112 United States

Phone: (651) 639-0913

Fax: (651) 639-0923

(See Reverse Side for Instructions)

Project No/Phase/Task Code: <b>1139422</b>				Laboratory Name: <b>PACC</b>				Lab Location:				SSOW ID:																			
Project Name: <b>Former Lindey Cleaners</b>				Lab Contact:				Lab Quote No:				Cooler No:																			
Project Location: <b>Rhineland, WI</b>				SAMPLE TYPE				CONTAINER QUANTITY & PRESERVATION				ANALYSIS REQUESTED <i>(See Back of COC for Definitions)</i>				Carrier:															
Chemistry Contact: <b>Grant Andersson</b>				Matrix Code (see back of COC) Grab (G) or Comp (C)				Unpreserved Hydrochloric Acid (HCl) Nitric Acid (HNO <sub>3</sub> ) Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ) Sodium Hydroxide (NaOH) Methanol/Water (Soil VOC) EnCores 3x5-g, 1x25-g Other:				Total Containers/Sample <b>82603</b> <b>low level</b>				Airbill No:															
Sampler(s): <b>K. Jenkin</b>																Date Shipped:															
MS/MSD Request				COMMENTS/ SPECIAL INSTRUCTIONS:																											
Item	SAMPLE IDENTIFICATION <i>(Containers for each sample may be combined on one line)</i>			DATE <i>(mm/dd/yy)</i>	TIME <i>(hh:mm)</i>	Matrix Code	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO <sub>3</sub> )	Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample															
1	W-181023-KS-01			10/23/18	1055	WG	G		3							4	040 (043)														
2	02			↓	1345	↓	↓		↓							↓	041 (044)														
3	03			↓	1420	↓	↓		↓							↓	042 (045)														
4	W TRIP BLANK								8								046														
5	S TRIP BLANK																047														
6	W TRIP BLANK							8									048														
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
TAT Required in business days (use separate COCs for different TATs): <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week <input checked="" type="checkbox"/> Other: <b>Standard</b>								Total Number of Containers:				Notes/ Special Requirements:																			
								All Samples in Cooler must be on COC																							
RELINQUISHED BY				COMPANY				DATE				TIME				RECEIVED BY				COMPANY				DATE				TIME			
1. Keri Jenkin				64D				10/24/18				1400				1. [Signature]				PACC				10/24/18				1408			
2.																2.															
3.																3.															

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT - ALL FIELDS MUST BE COMPLETED ACCURATELY

**Sample Condition Upon Receipt** Client Name: CRA Project # **WO# : 10452955**  
 Courier:  Fed Ex  UPS  USPS  Client PM: TS1 Due Date: 10/31/18  
 Commercial  Pace  SpeedDee  Other: CLIENT: GHD  
 Tracking Number: \_\_\_\_\_

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No Optional: Proj. Due Date: Proj. Name:  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: PB Temp Blank?  Yes  No  
 Thermometer  G87A9170600254 Used:  G87A9155100842 Type of ice:  Wet  Blue  None  Dry  Melted  
 Cooler Temp Read (°C): 5.2 | 4.3 | 3.3 Cooler Temp Corrected (°C): 5.4 | 4.5 | 3.5 | 2.8 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C Correction Factor: +0.2 Date and Initials of Person Examining Contents: AS EJ 10/24/18  
**USDA Regulated Soil** (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?  Yes  No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No  
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>SL/W</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>NO SAMPLE ID ON SOME SAMPLES, BUT SAMPLES ARRIVED IN LABELED</u>
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N <u>bag</u>
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample # <u>10/24/18</u> Initial when completed: <u>AS</u> Lot # of added preservative:
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>See Exception</u>
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>3 Soil / 8 Water / 8 amp</u>
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>180998/090318-3</u>	

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

Project Manager Review: JmaShtari Date: 10/25/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).





# Memorandum

November 19, 2018

To: Ryan Aamot, GHD

Ref. No.: 11139422-13

From:  Grant Anderson/sb/2

Tel: (651) 639-0913

**Subject: Analytical Results and Reduced Data Validation  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site – Rhinelander, Wisconsin  
October 2018**

## 1. Introduction

The following document details a reduced validation of analytical results for groundwater and soil samples collected in support of the monitoring event at the Former Lindey Cleaners Site in Rhinelander, Wisconsin in October 2018. Volatile organic compound (VOC) samples were submitted to Pace Analytical Services, Inc. (Pace), located in Minneapolis, Minnesota. N-nonane samples were submitted to CT Laboratories, LLC located in Baraboo, WI. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services, Inc. (GHD) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike samples (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the document entitled:

- i) "National Functional Guidelines for Organic Superfund Methods Data Review," EPA-540-R-2017-002, January 2017

Item i) will subsequently be referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. The sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).



### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

Laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

### 4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

### 5. Laboratory Control Sample (LCS) Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all compounds of interest. With the exception of ally chloride, the LCS recoveries and RPDs were within the laboratory control limits or yielded recoveries above control limits that did not warrant qualification of non-detect sample results. Table 4 lists outlying LCS recoveries. The associated sample result is qualified as noted in the table.

### 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.



The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

## 7. Field QA/QC Samples

The field QA/QC samples consisted of three trip blank samples.

### *Trip Blank Sample Analysis*

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blank samples were submitted to the laboratory for VOC analysis. One soil trip blank yielded a detectable concentration of methylene chloride. Table 5 lists the trip blank detection. Associated sample results are qualified as noted in the table. The remaining trip blank results were non-detect.

## 8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Tables 2A and 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Tables 2A and 2B.

## 9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Tables 2A and 2B are acceptable with the qualifications noted herein.



Table 1

**Sample Collection and Analysis Summary  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Sample Identification	Location	Depth (feet bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	Comments
S-1801023-KJ-04A	04A	0-4	soil	10/23/2018	12:10	VOC	
S-1801023-KJ-05A	05A	0-4	soil	10/23/2018	12:25	VOC	
S-1801023-KJ-06A	06A	0-4	soil	10/23/2018	12:40	VOC	
S-1801023-KJ-07A	07A	0-4	soil	10/23/2018	12:50	VOC, n-nonane	
S-1801023-KJ-08A	08A	0-4	soil	10/23/2018	13:05	VOC	
S-1801023-KJ-09A	09A	0-4	soil	10/23/2018	13:20	VOC	
S-1801023-KJ-10A	10A	0-4	soil	10/23/2018	13:35	VOC	
S-1801023-KJ-11A	11A	0-4	soil	10/23/2018	13:50	VOC	
S-1801023-KJ-12A	12A	0-4	soil	10/23/2018	14:05	VOC	
S-1801023-KJ-13A	13A	0-4	soil	10/23/2018	14:25	VOC	
S-1801023-KJ-07B	07B	4-8	soil	10/23/2018	12:55	VOC	
S-1801023-KJ-08B	08B	4-8	soil	10/23/2018	13:10	VOC, n-nonane	
S-1801023-KJ-09B	09B	4-8	soil	10/23/2018	13:25	VOC	
S-1801023-KJ-07C	07C	8-12	soil	10/23/2018	13:00	VOC	
S-1801023-KJ-08C	08C	8-12	soil	10/23/2018	13:15	VOC	
S-1801023-KJ-09C	09C	8-12	soil	10/23/2018	13:30	VOC	
W-181023-KS-01	SB-13	-	water	10/23/2018	10:55	VOC	
W-181023-KS-02	SB-7	-	water	10/23/2018	13:45	VOC	
W-181023-KS-03	SB-2	-	water	10/23/2018	14:20	VOC	
W TRIP BLANK	lab	-	water	10/23/2018	00:00	VOC	Trip Blank
S TRIP BLANK	lab	-	soil	10/23/2018	00:00	VOC	Trip Blank
U TRIP BLANK	lab	-	soil	10/23/2018	00:00	VOC	Trip Blank

## Notes:

VOC - Volatile Organic Compounds

**Validated Analytical Results Summary - Groundwater  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>SB-13</b>	<b>SB-7</b>	<b>SB-2</b>
<b>Sample Name:</b>	<b>W-181023-KS-01</b>	<b>W-181023-KS-02</b>	<b>W-181023-KS-03</b>
<b>Sample Date:</b>	<b>10/23/2018</b>	<b>10/23/2018</b>	<b>10/23/2018</b>

Parameters	Unit			
<b>Volatile Organic Compounds</b>				
1,1,1,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	µg/L	4.0 U	4.0 U	4.0 U
1,2,3-Trichloropropane	µg/L	4.0 U	4.0 U	4.0 U
1,2,4-Trichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	2110	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	4.0 U	4.0 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	µg/L	0.50 U	0.29 J	0.50 U
1,2-Dichloroethane	µg/L	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	µg/L	4.0 U	4.0 U	4.0 U
1,3,5-Trimethylbenzene	µg/L	0.50 U	573	0.50 U
1,3-Dichlorobenzene	µg/L	0.50 U	0.50 U	0.50 U
1,3-Dichloropropane	µg/L	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	µg/L	0.50 U	0.18 J	0.50 U
2,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	1.5 J	5.0 U
2-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U
2-Phenylbutane (sec-Butylbenzene)	µg/L	1.0 U	55.5	1.0 U
4-Chlorotoluene	µg/L	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20.0 U	20.0 U	20.0 U
Allyl chloride	µg/L	4.0 U	4.0 U	4.0 UJ
Benzene	µg/L	0.50 U	0.50 U	0.50 U
Bromobenzene	µg/L	0.50 U	0.50 U	0.50 U
Bromodichloromethane	µg/L	0.50 U	0.50 U	0.50 U
Bromoform	µg/L	4.0 U	4.0 U	4.0 U
Bromomethane (Methyl bromide)	µg/L	4.0 U	4.0 U	4.0 U
Carbon tetrachloride	µg/L	0.50 U	0.50 U	0.50 U
Chlorobenzene	µg/L	0.50 U	0.50 U	0.50 U
Chlorobromomethane	µg/L	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	4.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	µg/L	0.50 U	25.9	0.50 U
cis-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U

**Validated Analytical Results Summary - Groundwater  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>SB-13</b>	<b>SB-7</b>	<b>SB-2</b>
<b>Sample Name:</b>	<b>W-181023-KS-01</b>	<b>W-181023-KS-02</b>	<b>W-181023-KS-03</b>
<b>Sample Date:</b>	<b>10/23/2018</b>	<b>10/23/2018</b>	<b>10/23/2018</b>

<b>Parameters</b>	<b>Unit</b>			
Cymene (p-Isopropyltoluene)	µg/L	6.9	63.4	1.0 U
Dibromochloromethane	µg/L	0.50 U	0.50 U	0.50 U
Dibromomethane	µg/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U
Dichlorofluoromethane	µg/L	1.0 U	1.0 U	1.0 U
Ethyl ether	µg/L	4.0 U	4.0 U	4.0 U
Ethylbenzene	µg/L	0.50 U	66.7	0.50 U
Hexachlorobutadiene	µg/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	84.0	1.0 U
m&p-Xylenes	µg/L	1.0 U	234	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.50 U	0.50 U	0.50 U
Methylene chloride	µg/L	4.0 U	4.0 U	4.0 U
N-Butylbenzene	µg/L	1.0 U	28.4	1.0 U
N-Propylbenzene	µg/L	0.50 U	204	0.50 U
Naphthalene	µg/L	1.0 U	32.9	1.0 U
o-Xylene	µg/L	0.50 U	11.3	0.50 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	µg/L	0.50 U	13.3	0.50 U
Tetrachloroethene	µg/L	2.0	4.3	0.88
Tetrahydrofuran	µg/L	10.0 U	10.0 U	10.0 U
Toluene	µg/L	0.50 U	3.7	0.50 U
trans-1,2-Dichloroethene	µg/L	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/L	0.50 U	0.50 U	0.50 U
Trichloroethene	µg/L	0.40 U	3.9	0.40 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.32 J
Trifluorotrchloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.5 U	246	1.5 U

**Note**

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Not detected; associated reporting limit is estimated

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>04A</b>	<b>05A</b>	<b>06A</b>	<b>07A</b>
<b>Sample Name:</b>	S-1801023-KJ-04A	S-1801023-KJ-05A	S-1801023-KJ-06A	S-1801023-KJ-07A
<b>Sample Date:</b>	10/23/2018	10/23/2018	10/23/2018	10/23/2018
<b>Depth:</b>	0-4'	0-4'	0-4'	0-4'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
1,1,1,2-Tetrachloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1,1-Trichloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1,2,2-Tetrachloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1,2-Trichloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1-Dichloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1-Dichloroethene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,1-Dichloropropene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2,3-Trichlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2,3-Trichloropropane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2,4-Trichlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2,4-Trimethylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	1.8 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2-Dichlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2-Dichloroethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,2-Dichloropropane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,3,5-Trimethylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	1.2 J
1,3-Dichlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,3-Dichloropropane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
1,4-Dichlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
2,2-Dichloropropane	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	20.5 U	21.4 U	21.6 U	29.4 U
2-Chlorotoluene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
2-Phenylbutane (sec-Butylbenzene)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
4-Chlorotoluene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	20.5 U	21.4 U	21.6 U	29.4 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>04A</b>	<b>05A</b>	<b>06A</b>	<b>07A</b>
<b>Sample Name:</b>	S-1801023-KJ-04A	S-1801023-KJ-05A	S-1801023-KJ-06A	S-1801023-KJ-07A
<b>Sample Date:</b>	10/23/2018	10/23/2018	10/23/2018	10/23/2018
<b>Depth:</b>	0-4'	0-4'	0-4'	0-4'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
Acetone	µg/kg	20.5 U	21.4 U	21.6 U	26.9 J
Allyl chloride	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Benzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Bromobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Bromodichloromethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Bromoform	µg/kg	20.5 U	21.4 U	21.6 U	29.4 U
Bromomethane (Methyl bromide)	µg/kg	20.5 U	21.4 U	21.6 U	29.4 U
Carbon tetrachloride	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Chlorobenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Chlorobromomethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Chloroethane	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Chloroform (Trichloromethane)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Chloromethane (Methyl chloride)	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
cis-1,2-Dichloroethene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
cis-1,3-Dichloropropene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Cymene (p-Isopropyltoluene)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Dibromochloromethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Dibromomethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Dichlorodifluoromethane (CFC-12)	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Dichlorofluoromethane	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Ethyl ether	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Ethylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Hexachlorobutadiene	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Isopropyl benzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Methyl tert butyl ether (MTBE)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Methylene chloride	µg/kg	20.5 U	21.4 U	21.6 U	29.4 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	04A	05A	06A	07A
Sample Name:	S-1801023-KJ-04A	S-1801023-KJ-05A	S-1801023-KJ-06A	S-1801023-KJ-07A
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	0-4'	0-4'	0-4'	0-4'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
N-Butylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
N-Propylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Naphthalene	µg/kg	10.2 U	10.7 U	10.8 U	0.57 J
Styrene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
tert-Butylbenzene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Tetrachloroethene	µg/kg	2.3 J	2.8 J	0.99 J	29.5
Tetrahydrofuran	µg/kg	41.0 U	42.9 U	43.3 U	58.7 U
Toluene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
trans-1,2-Dichloroethene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
trans-1,3-Dichloropropene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Trichloroethene	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Trichlorofluoromethane (CFC-11)	µg/kg	10.2 U	10.7 U	10.8 U	14.7 U
Trifluorotrchloroethane (CFC-113)	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Vinyl chloride	µg/kg	4.1 U	4.3 U	4.3 U	5.9 U
Xylenes (total)	µg/kg	12.3 U	12.9 U	13.0 U	17.6 U
<b>General Chemistry</b>					
Percent moisture	%	6.1	6.7	6.0	11.1
N-nonane	mg/kg	-	-	-	0.57 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>07B</b>	<b>07C</b>	<b>08A</b>	<b>08B</b>
<b>Sample Name:</b>	S-1801023-KJ-07B	S-1801023-KJ-07C	S-1801023-KJ-08A	S-1801023-KJ-08B
<b>Sample Date:</b>	10/23/2018	10/23/2018	10/23/2018	10/23/2018
<b>Depth:</b>	4-8'	8-12'	0-4'	4-8'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
1,1,1,2-Tetrachloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1,1-Trichloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1,2,2-Tetrachloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1,2-Trichloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1-Dichloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1-Dichloroethene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,1-Dichloropropene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2,3-Trichlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2,3-Trichloropropane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2,4-Trichlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2,4-Trimethylbenzene	µg/kg	4.5 U	0.97 J	1.7 J	1.6 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2-Dichlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2-Dichloroethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,2-Dichloropropane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,3,5-Trimethylbenzene	µg/kg	4.5 U	0.43 J	4.6 U	4.2 U
1,3-Dichlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,3-Dichloropropane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
1,4-Dichlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
2,2-Dichloropropane	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U
2-Chlorotoluene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
2-Phenylbutane (sec-Butylbenzene)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
4-Chlorotoluene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	07B	07C	08A	08B
Sample Name:	S-1801023-KJ-07B	S-1801023-KJ-07C	S-1801023-KJ-08A	S-1801023-KJ-08B
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	4-8'	8-12'	0-4'	4-8'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
Acetone	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U
Allyl chloride	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Benzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Bromobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Bromodichloromethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Bromoform	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U
Bromomethane (Methyl bromide)	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U
Carbon tetrachloride	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Chlorobenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Chlorobromomethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Chloroethane	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Chloroform (Trichloromethane)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Chloromethane (Methyl chloride)	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
cis-1,2-Dichloroethene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
cis-1,3-Dichloropropene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Cymene (p-Isopropyltoluene)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Dibromochloromethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Dibromomethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Dichlorodifluoromethane (CFC-12)	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Dichlorofluoromethane	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Ethyl ether	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Ethylbenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Hexachlorobutadiene	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Isopropyl benzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Methyl tert butyl ether (MTBE)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Methylene chloride	µg/kg	22.7 U	21.5 U	22.9 U	21.2 U



**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	07B	07C	08A	08B
Sample Name:	S-1801023-KJ-07B	S-1801023-KJ-07C	S-1801023-KJ-08A	S-1801023-KJ-08B
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	4-8'	8-12'	0-4'	4-8'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
N-Butylbenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
N-Propylbenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Naphthalene	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Styrene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
tert-Butylbenzene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Tetrachloroethene	µg/kg	4.6	6.1	21.4	5.2
Tetrahydrofuran	µg/kg	45.5 U	42.9 U	45.8 U	42.4 U
Toluene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
trans-1,2-Dichloroethene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
trans-1,3-Dichloropropene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Trichloroethene	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Trichlorofluoromethane (CFC-11)	µg/kg	11.4 U	10.7 U	11.4 U	10.6 U
Trifluorotrchloroethane (CFC-113)	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Vinyl chloride	µg/kg	4.5 U	4.3 U	4.6 U	4.2 U
Xylenes (total)	µg/kg	13.6 U	12.9 U	13.7 U	12.7 U
<b>General Chemistry</b>					
Percent moisture	%	13.6	4.9	10.6	8.9
N-nonane	mg/kg	-	-	-	1.02

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	08C	09A	09B	09C
Sample Name:	S-1801023-KJ-08C	S-1801023-KJ-09A	S-1801023-KJ-09B	S-1801023-KJ-09C
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	8-12'	0-4'	4-8'	8-12'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
1,1,1,2-Tetrachloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1,1-Trichloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1,2,2-Tetrachloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1,2-Trichloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1-Dichloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1-Dichloroethene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,1-Dichloropropene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2,3-Trichlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2,3-Trichloropropane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2,4-Trichlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2,4-Trimethylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2-Dichlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2-Dichloroethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,2-Dichloropropane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,3,5-Trimethylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,3-Dichlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,3-Dichloropropane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
1,4-Dichlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
2,2-Dichloropropane	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	22.8 U	21.3 U	20.8 U	23.7 U
2-Chlorotoluene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
2-Phenylbutane (sec-Butylbenzene)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
4-Chlorotoluene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	22.8 U	21.3 U	20.8 U	23.7 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	08C	09A	09B	09C
Sample Name:	S-1801023-KJ-08C	S-1801023-KJ-09A	S-1801023-KJ-09B	S-1801023-KJ-09C
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	8-12'	0-4'	4-8'	8-12'

Parameters	Unit	08C	09A	09B	09C
<b>Volatile Organic Compounds</b>					
Acetone	µg/kg	22.8 U	21.3 U	20.8 U	23.7 U
Allyl chloride	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Benzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Bromobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Bromodichloromethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Bromoform	µg/kg	22.8 U	21.3 U	20.8 U	23.7 U
Bromomethane (Methyl bromide)	µg/kg	22.8 U	21.3 U	20.8 U	23.7 U
Carbon tetrachloride	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Chlorobenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Chlorobromomethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Chloroethane	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Chloroform (Trichloromethane)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Chloromethane (Methyl chloride)	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
cis-1,2-Dichloroethene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
cis-1,3-Dichloropropene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Cymene (p-Isopropyltoluene)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Dibromochloromethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Dibromomethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Dichlorofluoromethane	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Ethyl ether	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Ethylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Hexachlorobutadiene	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Isopropyl benzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Methyl tert butyl ether (MTBE)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Methylene chloride	µg/kg	22.8 U	24.2 U	20.8 U	23.7 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	08C	09A	09B	09C
Sample Name:	S-1801023-KJ-08C	S-1801023-KJ-09A	S-1801023-KJ-09B	S-1801023-KJ-09C
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	8-12'	0-4'	4-8'	8-12'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
N-Butylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
N-Propylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Naphthalene	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Styrene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
tert-Butylbenzene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Tetrachloroethene	µg/kg	4.6 U	18.1	10.6	4.7 U
Tetrahydrofuran	µg/kg	45.5 U	42.7 U	41.5 U	47.4 U
Toluene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
trans-1,2-Dichloroethene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
trans-1,3-Dichloropropene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Trichloroethene	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Trichlorofluoromethane (CFC-11)	µg/kg	11.4 U	10.7 U	10.4 U	11.8 U
Trifluorotrchloroethane (CFC-113)	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Vinyl chloride	µg/kg	4.6 U	4.3 U	4.2 U	4.7 U
Xylenes (total)	µg/kg	13.7 U	12.8 U	12.5 U	14.2 U
<b>General Chemistry</b>					
Percent moisture	%	2.2	8.3	5.2	7.0
N-nonane	mg/kg	-	-	-	-

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	10A	11A	12A	13A
Sample Name:	S-1801023-KJ-10A	S-1801023-KJ-11A	S-1801023-KJ-12A	S-1801023-KJ-13A
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	0-4'	0-4'	0-4'	0-4'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
1,1,1,2-Tetrachloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1,1-Trichloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1,2,2-Tetrachloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1,2-Trichloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1-Dichloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1-Dichloroethene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,1-Dichloropropene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2,3-Trichlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2,3-Trichloropropane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2,4-Trichlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2,4-Trimethylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2-Dichlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2-Dichloroethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,2-Dichloropropane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,3,5-Trimethylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,3-Dichlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,3-Dichloropropane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
1,4-Dichlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
2,2-Dichloropropane	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	23.1 U	24.5 U	21.7 U	22.9 U
2-Chlorotoluene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
2-Phenylbutane (sec-Butylbenzene)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
4-Chlorotoluene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	23.1 U	24.5 U	21.7 U	22.9 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Location ID:</b>	<b>10A</b>	<b>11A</b>	<b>12A</b>	<b>13A</b>
<b>Sample Name:</b>	S-1801023-KJ-10A	S-1801023-KJ-11A	S-1801023-KJ-12A	S-1801023-KJ-13A
<b>Sample Date:</b>	10/23/2018	10/23/2018	10/23/2018	10/23/2018
<b>Depth:</b>	0-4'	0-4'	0-4'	0-4'

Parameters	Unit				
<b>Volatile Organic Compounds</b>					
Acetone	µg/kg	23.1 U	24.5 U	21.7 U	19.9 J
Allyl chloride	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Benzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Bromobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Bromodichloromethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Bromoform	µg/kg	23.1 U	24.5 U	21.7 U	22.9 U
Bromomethane (Methyl bromide)	µg/kg	23.1 U	24.5 U	21.7 U	22.9 U
Carbon tetrachloride	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Chlorobenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Chlorobromomethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Chloroethane	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Chloroform (Trichloromethane)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Chloromethane (Methyl chloride)	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
cis-1,2-Dichloroethene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
cis-1,3-Dichloropropene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Cymene (p-Isopropyltoluene)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Dibromochloromethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Dibromomethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Dichlorofluoromethane	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Ethyl ether	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Ethylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Hexachlorobutadiene	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Isopropyl benzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Methyl tert butyl ether (MTBE)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Methylene chloride	µg/kg	23.1 U	24.5 U	21.7 U	23.4 U

**Validated Analytical Results Summary - Soil  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Location ID:	10A	11A	12A	13A
Sample Name:	S-1801023-KJ-10A	S-1801023-KJ-11A	S-1801023-KJ-12A	S-1801023-KJ-13A
Sample Date:	10/23/2018	10/23/2018	10/23/2018	10/23/2018
Depth:	0-4'	0-4'	0-4'	0-4'

Parameters	Unit	10A	11A	12A	13A
<b>Volatile Organic Compounds</b>					
N-Butylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
N-Propylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Naphthalene	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Styrene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
tert-Butylbenzene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Tetrachloroethene	µg/kg	1.3 J	4.9 U	4.3 U	4.6 U
Tetrahydrofuran	µg/kg	46.1 U	49.1 U	43.5 U	45.8 U
Toluene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
trans-1,2-Dichloroethene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
trans-1,3-Dichloropropene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Trichloroethene	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Trichlorofluoromethane (CFC-11)	µg/kg	11.5 U	12.3 U	10.9 U	11.5 U
Trifluorotrchloroethane (CFC-113)	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Vinyl chloride	µg/kg	4.6 U	4.9 U	4.3 U	4.6 U
Xylenes (total)	µg/kg	13.8 U	14.7 U	13.0 U	13.8 U
<b>General Chemistry</b>					
Percent moisture	%	10.7	9.6	6.2	4.5
N-nonane	mg/kg	-	-	-	-

Note

U - Not detected at the associated reporting limit  
J - Estimated concentration

**Table 3**

**Analytical Methods and Holding Time Criteria  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Parameter</b>	<b>Method</b>	<b>Matrix</b>	<b>Holding Time</b>	
			<b>Collection to Extraction (Days)</b>	<b>Collection or Extraction to Analysis (Days)</b>
Volatile Organic Compounds (VOC)	SW-846 8260B	Water or Soil	-	14
N-nonane	SW 8015C	Soil	14	40

Notes:

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986,  
with subsequent revisions



Table 4

**Qualified Sample Results Due to Outlying Laboratory Control Sample Results  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

<b>Parameter</b>	<b>Analyte</b>	<b>LCS Batch</b>	<b>LCS % Recovery</b>	<b><u>Control Limits</u> % Recovery</b>	<b>Associated Sample ID</b>	<b>Qualified Results</b>	<b>Units</b>
VOC	Allyl chloride	573624	66	67-126	W-181023-KS-03	4.0 UJ	ug/L

## Notes:

VOC - Volatile Organic Compounds

LCS - Laboratory Control Sample

UJ - Not detected; associated reporting limit is estimated

Table 5

**Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks  
Groundwater and Soil Sampling Event  
Former Lindey Cleaners Site  
Rhineland, Wisconsin  
October 2018**

Parameter	Blank Date	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOC	10/23/2018	Methylene chloride	12.6J	S-1801023-KJ-04A	15.4 J	20.5 U	ug/L
				S-1801023-KJ-05A	13.6 J	21.4 U	ug/L
				S-1801023-KJ-06A	17.8 J	21.6 U	ug/L
				S-1801023-KJ-07A	18.9 J	29.4 U	ug/L
				S-1801023-KJ-09A	24.2	24.2 U	ug/L
				S-1801023-KJ-10A	16.7 J	23.1 U	ug/L
				S-1801023-KJ-11A	9.2 J	24.5 U	ug/L
				S-1801023-KJ-12A	12.4 J	21.7 U	ug/L
				S-1801023-KJ-13A	23.4	23.4 U	ug/L
				S-1801023-KJ-07B	12.6 J	22.7 U	ug/L
				S-1801023-KJ-08B	14.6 J	21.2 U	ug/L
				S-1801023-KJ-09B	8.9 J	20.8 U	ug/L
				S-1801023-KJ-07C	9.7 J	21.5 U	ug/L
				S-1801023-KJ-08C	13.5 J	22.8 U	ug/L
				S-1801023-KJ-09C	16.4 J	23.7 U	ug/L

## Notes:

- U - Not detected at the associated reporting limit  
J - Estimated concentration