



April 8, 2024

Mr. Jeffry Faust
J.S. Held LLC
6 Meadow Hs Prof Park Dr
Collinsville, IL 62234
(618) 357-4680
Via email: Jeffry.faust@jsheld.com

**RE: LIMITED PHASE II SAMPLING – CARR LANE VPA
(HRP #JSH0002.P2)**

Dear Mr. Faust:

At the request of JS Held, HRP Associates, Inc. (HRP) has prepared this letter report detailing the results of the sampling conducted on March 18, 2024, at the St. Louis Public Schools (SLPS) Carr Lane Visual and Performing Arts (VPA) School (Carr Lane) located at 1004 N. Jefferson Street, St. Louis, Missouri (**Figure 1**).

HRP contracted with Bulldog Drilling (Bulldog) of Dupou, Illinois to install three soil borings around the perimeter of the Carr Lane facility to collect soil samples for analysis. The sampling was conducted following the procedures outlined in the *Proposal for a Limited Phase II Investigation for Carr Lane VPA School* dated February 8, 2024.

The purpose of the soil sampling event was to determine if elevated concentrations of volatile organic chemicals (VOCs), polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals (arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), mercury (Hg), selenium (Sg), and silver (Ag)), or polychlorinated biphenyls (PCBs) are present.

Field Effort

On March 19, 2024, HRP and Bulldog mobilized to the Site to install three soil borings and to collect soil samples for laboratory analysis. Prior to mobilization to the Site, Bulldog contacted Missouri One Call, in accordance with state law and had underground utilities marked out. The borings were installed in grass-covered locations along the perimeter of the buildings to avoid damage to existing infrastructure (**Figure 2**). A Geoprobe® direct-push sample rig was used to drive a five-foot long, two-inch diameter, clean, lined sample tube to the desired depth. The borings were labeled CL 01 – CL 03.

After determining the locations, the drill crew advanced the sampler to the desired depth. Each 5-foot sample liner was opened, scanned for volatile organic vapors using a MiniRAE 300 VOC gas monitor. No readings above background were noted. The soils within the sample liner were described on a boring log (**Attachment 1**). After completion of borings on adjoining parcels, the borings on the Carr Lane parcel were advanced to a depth of 25 feet below ground surface (ft bgs; or refusal) due to the homogeneity of the soils between 25 and 30 ft bgs.

After scanning the soils for VOC content, the HRP geologist selected a representative soil interval for collection of a sample for submittal to the laboratory for analysis. The soil was placed into laboratory supplied jars and labeled as to time, sample identification, and sample analysis. The sample jar was then placed into an ice-filled cooler for transport to the Pace, Inc. Lenexa, Kansas laboratory for analysis. Each sample was entered on a laboratory supplied chain of custody, which accompanied the samples to the laboratory. A duplicate sample was collected from Boring CL 01 for analysis of VOCs.

The soils encountered within the borings generally consisted of a one-foot layer of topsoil with roots from the overlying vegetation, underlain by fill material consisting of gravel, concrete, and limestone gravel, held together by a silty clay matrix. This layer varied between four and eight feet thick. The soil below the fill material consisted of a silty clay, generally becoming more plastic with increasing depth, primarily light brown to light reddish brown. Sufficient groundwater for the collection of a sample was not encountered in the borings.

Laboratory Analysis

Samples collected from each boring were analyzed for VOCs and PCBs. The sample collected from boring CL 01 was also analyzed for RCRA (8) Metals and PAHs.

The analytical results (**Attachment 2**) were compared to values in the Missouri Department of Natural Resources (MDNR) Risk-Based Corrective Action Technical Guidance (MRBCA); Appendix B, Table B-2: Tier 1 Risk-Based Target Levels, Residential Land Use, Soil Type 1 (Sandy). Since the City of St. Louis has a Memorandum of Understanding (MOU) prohibiting the use of groundwater as a potable water source, soil to groundwater and groundwater risk values were not considered. The most stringent of the Surficial and Subsurface Soil risk values were used for comparison of the analytical results. The results for the borings are as follows:

- PCBs: PCBs were not detected in any of the samples.
- VOCs: VOCs were not detected in any of the samples.
- RCRA (8) Metals: The sample from Boring CL 01 was collected at a depth of 12 to 13 ft bgs, from the light grey low plastic silty clay. Arsenic (5.1 milligrams per kilogram (mg/kg)) was the only metal detected in excess of the MRBCA target levels, 4.26 mg/kg. The detected concentration of arsenic falls below a statewide calculation of the average concentration of arsenic in soils, 8.7 mg/kg. To determine the background concentration for arsenic in the St. Louis area, additional sampling would be required using procedures outlined in the MDNR MRBCA Guidance document.
- PAHs: PAHs were not detected in any of the samples.

The complete laboratory analytical report is included as an attachment.

Findings/Conclusions/Recommendations

The soils encountered consisted primarily of a layer of topsoil, underlain by four to eight feet of typical urban fill material consisting of clay, brick, concrete, and limestone gravel. Below the fill

material was light brown/light grey silty clay, with plasticity increasing with depth. No obvious indications of contamination (discolored soils, organic vapor readings above background, odors, etc.) were noted during the collection of soil samples. The arsenic detected above the MDNR MRBCA risk level in the sample collected from Boring CL-01 is likely the natural arsenic content of the soil, given the lack of additional elevated analytical results.

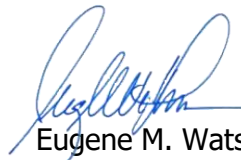
Based on the results of the investigation and sampling, no significant site-wide contamination was found.

If you have any questions or require additional information, please feel free to contact HRP at (314) 200-4720. Thank you for the opportunity to support your environmental project.

Sincerely,
HRP Associates, Inc.



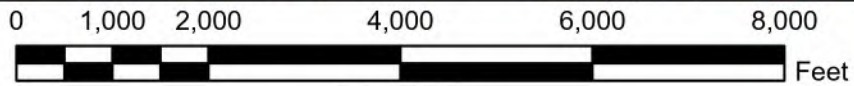
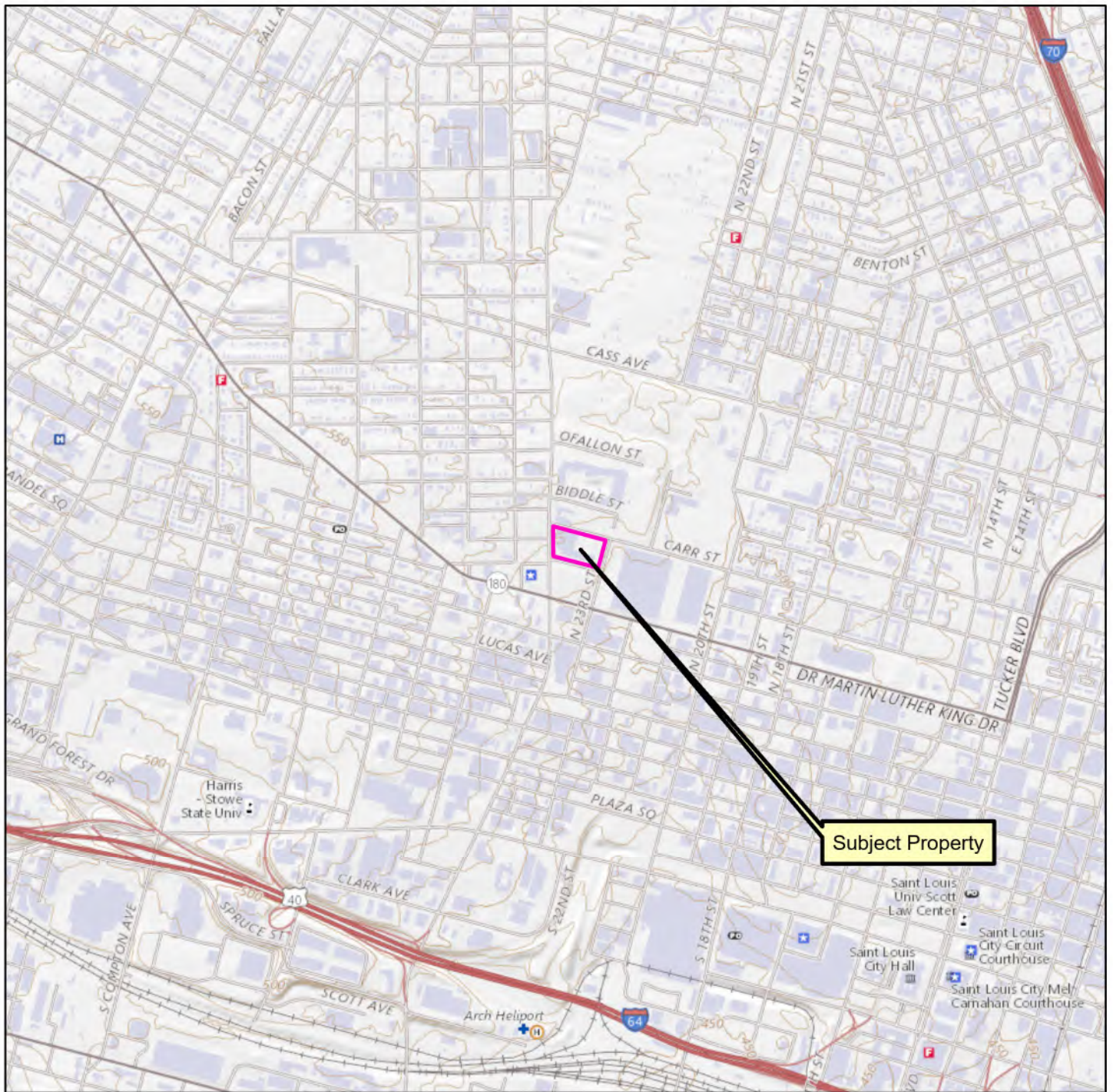
Chris L. Tedder, RG
Senior Project Manager



Eugene M. Watson
Principal, Regional Manager

Attachments

FIGURES



1:24,000



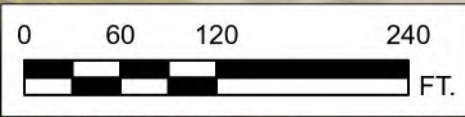
USGS Quadrangle Information
 Quad ID: 38090-F2
 Quad Name: Granite City, Illinois

Figure 1
Subject Property Location Map
Carr Lane VPA Middle School
1004 N. Jefferson Avenue
St. Louis, Missouri
HRP # JSH0002.P2
Scale 1" = 2,000'

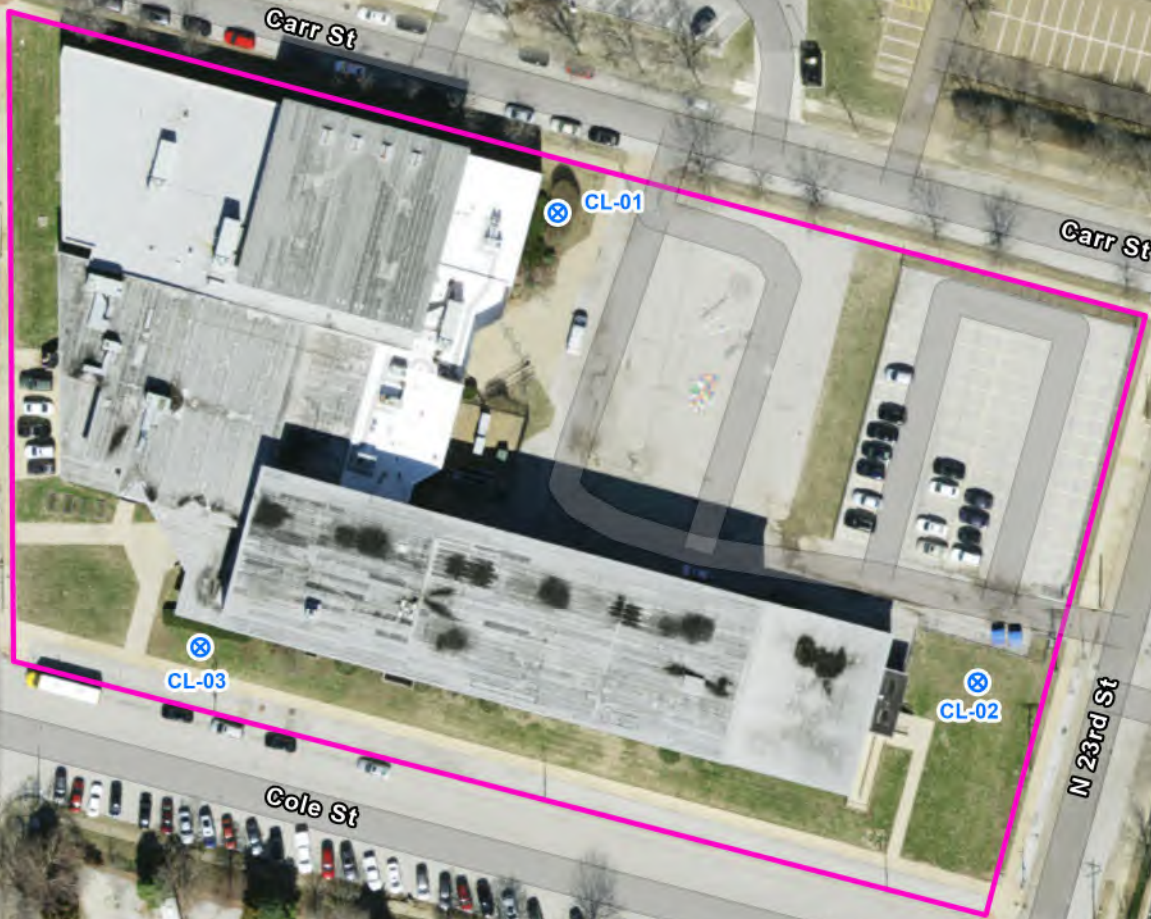
2500 SOUTH OLD HWY 94
 SUITE 202
 ST. CHARLES, MO 63303
 (314) 200-4720
 HRPASSOCIATES.COM

Legend

- Approximate Subject Property
- ⊗ Test Boring



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 Catholic
 Church and
 Parsonage



**Figure 2
 Site Plan
 Carr Lane VPA Middle School
 1004 N, Jefferson Avenue
 St. Louis, Missouri
 HRP # JSH0002.P2
 Scale 1" = 120'**

East-West Gateway COG, State of Missouri, STL Imagery Consortium, Maxar, Microsoft, Esri Community Maps Contributors, County of St. Charles, County of St. Louis, Metro East Park and Rec District, Missouri Dept. of Conservation, Missouri DNR, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

ATTACHMENT 1

Boring Logs

ATTACHMENT 2

Analytical Results



March 26, 2024

Chris Tedder
HRP Associates, Inc.
2500 S. Old Highway 94
Ste 202
St. Charles, MO 63303

RE: Project: CARR LANE JSH0002.PR
Pace Project No.: 60449312

Dear Chris Tedder:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

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

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Jenny Mooney, HRP Associates, Inc.
Gene Watson, HRP Associates, Inc



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Arkansas Inorganic Drinking Water Certification

Arkansas Certification #: 88-00679

Illinois Certification #: 2000302023-6

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas Field Laboratory Certification #: E-92587

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Missouri Inorganic Drinking Water Certification

Nevada Certification #: KS000212024-1

Oklahoma Certification #: 2023-073

Texas Certification #: T104704407-23-17

Utah Certification #: KS000212022-13

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SAMPLE SUMMARY

Project: CARR LANE JSH0002.PR
Pace Project No.: 60449312

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60449312001	CL-01	Solid	03/19/24 10:00	03/20/24 05:40
60449312002	CL-01-DUP	Solid	03/19/24 10:00	03/20/24 05:40
60449312003	CL-02	Solid	03/19/24 10:35	03/20/24 05:40
60449312004	CL-03	Solid	03/19/24 11:00	03/20/24 05:40

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SAMPLE ANALYTE COUNT

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60449312001	CL-01	EPA 8082	JDS	8	PASI-K
		EPA 6010	JXD	7	PASI-K
		EPA 7471	ACLC	1	PASI-K
		EPA 8270 by SIM	WFG	18	PASI-K
		EPA 8260C	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60449312002	CL-01-DUP	EPA 8260C	RAD	68	PASI-K
60449312003	CL-02	EPA 8082	JDS	8	PASI-K
		EPA 8260C	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60449312004	CL-03	EPA 8082	JDS	8	PASI-K
		EPA 8260C	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-01 Lab ID: 60449312001 Collected: 03/19/24 10:00 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
PCB-1016 (Aroclor 1016)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	42.2	1	03/22/24 08:44	03/25/24 22:59	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	106	%	20-120	1	03/22/24 08:44	03/25/24 22:59	2051-24-3	
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Pace Analytical Services - Kansas City								
Arsenic	5.1	mg/kg	1.0	1	03/22/24 11:15	03/25/24 12:21	7440-38-2	
Barium	227	mg/kg	0.51	1	03/22/24 11:15	03/25/24 12:21	7440-39-3	
Cadmium	0.33J	mg/kg	0.51	1	03/22/24 11:15	03/25/24 12:21	7440-43-9	
Chromium	12.9	mg/kg	0.51	1	03/22/24 11:15	03/25/24 12:21	7440-47-3	
Lead	12.3	mg/kg	1.0	1	03/22/24 11:15	03/25/24 12:21	7439-92-1	
Selenium	ND	mg/kg	1.5	1	03/22/24 11:15	03/25/24 12:21	7782-49-2	
Silver	ND	mg/kg	0.72	1	03/22/24 11:15	03/25/24 12:21	7440-22-4	
7471 Mercury								
Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Pace Analytical Services - Kansas City								
Mercury	ND	mg/kg	0.057	1	03/22/24 12:08	03/22/24 14:55	7439-97-6	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Pace Analytical Services - Kansas City								
Acenaphthene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	83-32-9	
Acenaphthylene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	208-96-8	
Anthracene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	207-08-9	
Chrysene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	53-70-3	
Fluoranthene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	206-44-0	
Fluorene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	193-39-5	
Naphthalene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	91-20-3	
Phenanthrene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	85-01-8	
Pyrene	ND	ug/kg	4.2	1	03/20/24 13:35	03/21/24 20:48	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	76	%	40-120	1	03/20/24 13:35	03/21/24 20:48	321-60-8	
Terphenyl-d14 (S)	89	%	45-130	1	03/20/24 13:35	03/21/24 20:48	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-01 Lab ID: 60449312001 Collected: 03/19/24 10:00 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
Acetone	ND	ug/kg	157	1	03/21/24 19:43	03/22/24 04:32	67-64-1	
Benzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	71-43-2	
Bromobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	108-86-1	
Bromochloromethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	74-97-5	
Bromodichloromethane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	75-27-4	
Bromoform	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	75-25-2	
Bromomethane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	157	1	03/21/24 19:43	03/22/24 04:32	78-93-3	
n-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	98-06-6	
Carbon disulfide	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	56-23-5	
Chlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	108-90-7	
Chloroethane	ND	ug/kg	62.3	1	03/21/24 19:43	03/22/24 04:32	75-00-3	
Chloroform	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	67-66-3	
Chloromethane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	96-12-8	
Dibromochloromethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	106-93-4	
Dibromomethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	24.9	1	03/21/24 19:43	03/22/24 04:32	540-59-0	
1,1-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	10061-02-6	
Ethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	87-68-3	
2-Hexanone	ND	ug/kg	157	1	03/21/24 19:43	03/22/24 04:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	99-87-6	
Methylene Chloride	ND	ug/kg	62.3	1	03/21/24 19:43	03/22/24 04:32	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-01 Lab ID: 60449312001 Collected: 03/19/24 10:00 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	157	1	03/21/24 19:43	03/22/24 04:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	1634-04-4	
Naphthalene	ND	ug/kg	24.9	1	03/21/24 19:43	03/22/24 04:32	91-20-3	
n-Propylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	103-65-1	
Styrene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	79-34-5	
Tetrachloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	127-18-4	
Toluene	ND	ug/kg	49.9	1	03/21/24 19:43	03/22/24 04:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	79-00-5	
Trichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:32	108-67-8	
Vinyl chloride	ND	ug/kg	32.4	1	03/21/24 19:43	03/22/24 04:32	75-01-4	
Xylene (Total)	ND	ug/kg	37.4	1	03/21/24 19:43	03/22/24 04:32	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	03/21/24 19:43	03/22/24 04:32	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	03/21/24 19:43	03/22/24 04:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/24 19:43	03/22/24 04:32	2199-69-1	
Percent Moisture		Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City						
Percent Moisture	22.8	%	0.50	1		03/20/24 14:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-01-DUP Lab ID: 60449312002 Collected: 03/19/24 10:00 Received: 03/20/24 05:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
Acetone	ND	ug/kg	158	1	03/21/24 19:43	03/22/24 04:51	67-64-1	
Benzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	71-43-2	
Bromobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	108-86-1	
Bromochloromethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	74-97-5	
Bromodichloromethane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	75-27-4	
Bromoform	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	75-25-2	
Bromomethane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	158	1	03/21/24 19:43	03/22/24 04:51	78-93-3	
n-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	98-06-6	
Carbon disulfide	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	56-23-5	
Chlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	108-90-7	
Chloroethane	ND	ug/kg	62.7	1	03/21/24 19:43	03/22/24 04:51	75-00-3	
Chloroform	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	67-66-3	
Chloromethane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	96-12-8	
Dibromochloromethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	106-93-4	
Dibromomethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	25.1	1	03/21/24 19:43	03/22/24 04:51	540-59-0	
1,1-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	10061-02-6	
Ethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	87-68-3	
2-Hexanone	ND	ug/kg	158	1	03/21/24 19:43	03/22/24 04:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	99-87-6	
Methylene Chloride	ND	ug/kg	62.7	1	03/21/24 19:43	03/22/24 04:51	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-01-DUP Lab ID: 60449312002 Collected: 03/19/24 10:00 Received: 03/20/24 05:40 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	158	1	03/21/24 19:43	03/22/24 04:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	1634-04-4	
Naphthalene	ND	ug/kg	25.1	1	03/21/24 19:43	03/22/24 04:51	91-20-3	
n-Propylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	103-65-1	
Styrene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	79-34-5	
Tetrachloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	127-18-4	
Toluene	ND	ug/kg	50.1	1	03/21/24 19:43	03/22/24 04:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	79-00-5	
Trichloroethene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	12.5	1	03/21/24 19:43	03/22/24 04:51	108-67-8	
Vinyl chloride	ND	ug/kg	32.6	1	03/21/24 19:43	03/22/24 04:51	75-01-4	
Xylene (Total)	ND	ug/kg	37.6	1	03/21/24 19:43	03/22/24 04:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	03/21/24 19:43	03/22/24 04:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	03/21/24 19:43	03/22/24 04:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	03/21/24 19:43	03/22/24 04:51	2199-69-1	

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-02 Lab ID: 60449312003 Collected: 03/19/24 10:35 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW		Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City						
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.5	1	03/22/24 08:44	03/25/24 23:07	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	105	%	20-120	1	03/22/24 08:44	03/25/24 23:07	2051-24-3	
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
Acetone	ND	ug/kg	200	1	03/21/24 19:43	03/22/24 05:10	67-64-1	
Benzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	71-43-2	
Bromobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	108-86-1	
Bromochloromethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	74-97-5	
Bromodichloromethane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	75-27-4	
Bromoform	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	75-25-2	
Bromomethane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	200	1	03/21/24 19:43	03/22/24 05:10	78-93-3	
n-Butylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	98-06-6	
Carbon disulfide	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	56-23-5	
Chlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	108-90-7	
Chloroethane	ND	ug/kg	79.3	1	03/21/24 19:43	03/22/24 05:10	75-00-3	
Chloroform	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	67-66-3	
Chloromethane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	96-12-8	
Dibromochloromethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	106-93-4	
Dibromomethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	31.7	1	03/21/24 19:43	03/22/24 05:10	540-59-0	
1,1-Dichloroethene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	156-60-5	

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-02 Lab ID: 60449312003 Collected: 03/19/24 10:35 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
1,2-Dichloropropane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	10061-02-6	
Ethylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	87-68-3	
2-Hexanone	ND	ug/kg	200	1	03/21/24 19:43	03/22/24 05:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	99-87-6	
Methylene Chloride	ND	ug/kg	79.3	1	03/21/24 19:43	03/22/24 05:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	200	1	03/21/24 19:43	03/22/24 05:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	1634-04-4	
Naphthalene	ND	ug/kg	31.7	1	03/21/24 19:43	03/22/24 05:10	91-20-3	
n-Propylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	103-65-1	
Styrene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	79-34-5	
Tetrachloroethene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	127-18-4	
Toluene	ND	ug/kg	63.4	1	03/21/24 19:43	03/22/24 05:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	79-00-5	
Trichloroethene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	15.9	1	03/21/24 19:43	03/22/24 05:10	108-67-8	
Vinyl chloride	ND	ug/kg	41.2	1	03/21/24 19:43	03/22/24 05:10	75-01-4	
Xylene (Total)	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	03/21/24 19:43	03/22/24 05:10	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119	1	03/21/24 19:43	03/22/24 05:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	80-120	1	03/21/24 19:43	03/22/24 05:10	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	20.4	%	0.50	1	03/20/24 14:37
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-03 Lab ID: 60449312004 Collected: 03/19/24 11:00 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW		Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City						
PCB-1016 (Aroclor 1016)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	40.5	1	03/22/24 08:44	03/25/24 23:14	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	102	%	20-120	1	03/22/24 08:44	03/25/24 23:14	2051-24-3	
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
Acetone	ND	ug/kg	231	1	03/21/24 19:43	03/22/24 05:30	67-64-1	
Benzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	71-43-2	
Bromobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	108-86-1	
Bromochloromethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	74-97-5	
Bromodichloromethane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	75-27-4	
Bromoform	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	75-25-2	
Bromomethane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	231	1	03/21/24 19:43	03/22/24 05:30	78-93-3	
n-Butylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	98-06-6	
Carbon disulfide	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	56-23-5	
Chlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	108-90-7	
Chloroethane	ND	ug/kg	91.5	1	03/21/24 19:43	03/22/24 05:30	75-00-3	
Chloroform	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	67-66-3	
Chloromethane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	96-12-8	
Dibromochloromethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	106-93-4	
Dibromomethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	36.6	1	03/21/24 19:43	03/22/24 05:30	540-59-0	
1,1-Dichloroethene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	156-60-5	

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ANALYTICAL RESULTS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Sample: CL-03 Lab ID: 60449312004 Collected: 03/19/24 11:00 Received: 03/20/24 05:40 Matrix: Solid

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

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035A Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City						
1,2-Dichloropropane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	10061-02-6	
Ethylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	87-68-3	
2-Hexanone	ND	ug/kg	231	1	03/21/24 19:43	03/22/24 05:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	99-87-6	
Methylene Chloride	ND	ug/kg	91.5	1	03/21/24 19:43	03/22/24 05:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	231	1	03/21/24 19:43	03/22/24 05:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	1634-04-4	
Naphthalene	ND	ug/kg	36.6	1	03/21/24 19:43	03/22/24 05:30	91-20-3	
n-Propylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	103-65-1	
Styrene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	79-34-5	
Tetrachloroethene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	127-18-4	
Toluene	ND	ug/kg	73.2	1	03/21/24 19:43	03/22/24 05:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	79-00-5	
Trichloroethene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	18.3	1	03/21/24 19:43	03/22/24 05:30	108-67-8	
Vinyl chloride	ND	ug/kg	47.6	1	03/21/24 19:43	03/22/24 05:30	75-01-4	
Xylene (Total)	ND	ug/kg	54.9	1	03/21/24 19:43	03/22/24 05:30	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	03/21/24 19:43	03/22/24 05:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	83-119	1	03/21/24 19:43	03/22/24 05:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/24 19:43	03/22/24 05:30	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974

Pace Analytical Services - Kansas City

Percent Moisture	20.4	%	0.50	1	03/20/24 14:37
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch: 887436

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001

METHOD BLANK: 3512792

Matrix: Solid

Associated Lab Samples: 60449312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	03/22/24 14:41	

LABORATORY CONTROL SAMPLE: 3512793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512794 3512795

Parameter	Units	3512794		3512795		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		60449298003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/kg	0.54	0.77	0.77	2.0	1.3	187	100	75-125	41	20	E,M1, R1

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch: 887709

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001

METHOD BLANK: 3513892

Matrix: Solid

Associated Lab Samples: 60449312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	03/25/24 12:08	
Barium	mg/kg	ND	0.50	03/25/24 12:08	
Cadmium	mg/kg	ND	0.50	03/25/24 12:08	
Chromium	mg/kg	ND	0.50	03/25/24 12:08	
Lead	mg/kg	ND	1.0	03/25/24 12:08	
Selenium	mg/kg	ND	1.5	03/25/24 12:08	
Silver	mg/kg	ND	0.70	03/25/24 12:08	

LABORATORY CONTROL SAMPLE: 3513893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	98	84.6	86	80-120	
Barium	mg/kg	98	92.5	94	80-120	
Cadmium	mg/kg	98	90.7	93	80-120	
Chromium	mg/kg	98	93.2	95	80-120	
Lead	mg/kg	98	91.8	94	80-120	
Selenium	mg/kg	98	85.7	87	80-120	
Silver	mg/kg	49	42.0	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513894 3513895

Parameter	Units	60449076001		3513894		3513895		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/kg	ND	90.9	90.9	66.8	75.4	73	82	75-125	12	20	M1	
Barium	mg/kg	30.5	90.9	90.9	109	118	87	97	75-125	8	20		
Cadmium	mg/kg	143	90.9	90.9	221	233	85	98	75-125	5	20		
Chromium	mg/kg	8.8	90.9	90.9	82.1	94.2	81	94	75-125	14	20		
Lead	mg/kg	457	90.9	90.9	509	571	57	126	75-125	12	20	M1	
Selenium	mg/kg	ND	90.9	90.9	65.5	74.7	72	82	75-125	13	20	M1	
Silver	mg/kg	ND	45.5	45.5	34.9	38.6	76	84	75-125	10	20		

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch: 887690

Analysis Method: EPA 8260C

QC Batch Method: EPA 5035A/5030B

Analysis Description: 8260C MSV 5035A Low Level

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001, 60449312002, 60449312003, 60449312004

METHOD BLANK: 3513853

Matrix: Solid

Associated Lab Samples: 60449312001, 60449312002, 60449312003, 60449312004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,1,1-Trichloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,1-Dichloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,1-Dichloroethene	ug/kg	ND	5.0	03/22/24 01:17	
1,1-Dichloropropene	ug/kg	ND	5.0	03/22/24 01:17	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,2,3-Trichloropropane	ug/kg	ND	5.0	03/22/24 01:17	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,2-Dibromo-3-chloropropane	ug/kg	ND	13.0	03/22/24 01:17	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	03/22/24 01:17	
1,2-Dichlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,2-Dichloroethane	ug/kg	ND	5.0	03/22/24 01:17	
1,2-Dichloroethene (Total)	ug/kg	ND	10.0	03/22/24 01:17	
1,2-Dichloropropane	ug/kg	ND	5.0	03/22/24 01:17	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,3-Dichlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
1,3-Dichloropropane	ug/kg	ND	5.0	03/22/24 01:17	
1,4-Dichlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
2,2-Dichloropropane	ug/kg	ND	5.0	03/22/24 01:17	
2-Butanone (MEK)	ug/kg	ND	63.0	03/22/24 01:17	
2-Chlorotoluene	ug/kg	ND	5.0	03/22/24 01:17	
2-Hexanone	ug/kg	ND	63.0	03/22/24 01:17	
4-Chlorotoluene	ug/kg	ND	5.0	03/22/24 01:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	63.0	03/22/24 01:17	
Acetone	ug/kg	ND	63.0	03/22/24 01:17	
Benzene	ug/kg	ND	5.0	03/22/24 01:17	
Bromobenzene	ug/kg	ND	5.0	03/22/24 01:17	
Bromochloromethane	ug/kg	ND	5.0	03/22/24 01:17	
Bromodichloromethane	ug/kg	ND	13.0	03/22/24 01:17	
Bromoform	ug/kg	ND	13.0	03/22/24 01:17	
Bromomethane	ug/kg	ND	13.0	03/22/24 01:17	
Carbon disulfide	ug/kg	ND	5.0	03/22/24 01:17	
Carbon tetrachloride	ug/kg	ND	5.0	03/22/24 01:17	
Chlorobenzene	ug/kg	ND	5.0	03/22/24 01:17	
Chloroethane	ug/kg	ND	25.0	03/22/24 01:17	
Chloroform	ug/kg	ND	5.0	03/22/24 01:17	
Chloromethane	ug/kg	ND	13.0	03/22/24 01:17	

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

METHOD BLANK: 3513853

Matrix: Solid

Associated Lab Samples: 60449312001, 60449312002, 60449312003, 60449312004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	03/22/24 01:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	03/22/24 01:17	
Dibromochloromethane	ug/kg	ND	5.0	03/22/24 01:17	
Dibromomethane	ug/kg	ND	5.0	03/22/24 01:17	
Dichlorodifluoromethane	ug/kg	ND	13.0	03/22/24 01:17	
Ethylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	03/22/24 01:17	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	03/22/24 01:17	
Methyl-tert-butyl ether	ug/kg	ND	5.0	03/22/24 01:17	
Methylene Chloride	ug/kg	ND	25.0	03/22/24 01:17	
n-Butylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
n-Propylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
Naphthalene	ug/kg	ND	10.0	03/22/24 01:17	
p-Isopropyltoluene	ug/kg	ND	5.0	03/22/24 01:17	
sec-Butylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
Styrene	ug/kg	ND	5.0	03/22/24 01:17	
tert-Butylbenzene	ug/kg	ND	5.0	03/22/24 01:17	
Tetrachloroethene	ug/kg	ND	5.0	03/22/24 01:17	
Toluene	ug/kg	ND	20.0	03/22/24 01:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	03/22/24 01:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	03/22/24 01:17	
Trichloroethene	ug/kg	ND	5.0	03/22/24 01:17	
Trichlorofluoromethane	ug/kg	ND	13.0	03/22/24 01:17	
Vinyl chloride	ug/kg	ND	13.0	03/22/24 01:17	
Xylene (Total)	ug/kg	ND	15.0	03/22/24 01:17	
1,2-Dichlorobenzene-d4 (S)	%	99	80-120	03/22/24 01:17	
4-Bromofluorobenzene (S)	%	103	83-119	03/22/24 01:17	
Toluene-d8 (S)	%	104	80-120	03/22/24 01:17	

LABORATORY CONTROL SAMPLE: 3513854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1500	120	84-125	
1,1,1-Trichloroethane	ug/kg	1250	1310	104	81-121	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1290	103	76-121	
1,1,2-Trichloroethane	ug/kg	1250	1370	110	83-118	
1,1-Dichloroethane	ug/kg	1250	1240	99	74-120	
1,1-Dichloroethene	ug/kg	1250	1300	104	71-124	
1,1-Dichloropropene	ug/kg	1250	1240	99	73-123	
1,2,3-Trichlorobenzene	ug/kg	1250	1090	87	81-123	
1,2,3-Trichloropropane	ug/kg	1250	1240	99	81-116	
1,2,4-Trichlorobenzene	ug/kg	1250	1190	96	79-126	
1,2,4-Trimethylbenzene	ug/kg	1250	1380	111	79-121	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1110	89	74-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

LABORATORY CONTROL SAMPLE: 3513854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	1250	1400	112	64-137	
1,2-Dichlorobenzene	ug/kg	1250	1200	96	83-119	
1,2-Dichloroethane	ug/kg	1250	1190	95	58-128	
1,2-Dichloroethene (Total)	ug/kg	2500	2540	102	82-117	
1,2-Dichloropropane	ug/kg	1250	1270	102	77-122	
1,3,5-Trimethylbenzene	ug/kg	1250	1370	109	81-122	
1,3-Dichlorobenzene	ug/kg	1250	1290	103	83-119	
1,3-Dichloropropane	ug/kg	1250	1340	107	83-118	
1,4-Dichlorobenzene	ug/kg	1250	1220	97	83-116	
2,2-Dichloropropane	ug/kg	1250	1310	105	76-124	
2-Butanone (MEK)	ug/kg	6250	6060	97	63-122	
2-Chlorotoluene	ug/kg	1250	1330	106	79-119	
2-Hexanone	ug/kg	6250	6390	102	68-122	
4-Chlorotoluene	ug/kg	1250	1370	109	84-119	
4-Methyl-2-pentanone (MIBK)	ug/kg	6250	6590	105	63-128	
Acetone	ug/kg	6250	6260	100	55-124	
Benzene	ug/kg	1250	1190	95	67-126	
Bromobenzene	ug/kg	1250	1320	106	85-117	
Bromochloromethane	ug/kg	1250	1390	111	78-122	
Bromodichloromethane	ug/kg	1250	1270	101	82-120	
Bromoform	ug/kg	1250	1530	122	77-133	
Bromomethane	ug/kg	1250	1330	106	20-168	
Carbon disulfide	ug/kg	1250	1280	102	60-133	
Carbon tetrachloride	ug/kg	1250	1380	110	79-128	
Chlorobenzene	ug/kg	1250	1280	102	84-118	
Chloroethane	ug/kg	1250	1070	85	53-139	
Chloroform	ug/kg	1250	1230	99	82-120	
Chloromethane	ug/kg	1250	1030	82	33-143	
cis-1,2-Dichloroethene	ug/kg	1250	1210	96	83-117	
cis-1,3-Dichloropropene	ug/kg	1250	1390	111	80-122	
Dibromochloromethane	ug/kg	1250	1520	122	82-128	
Dibromomethane	ug/kg	1250	1340	107	82-119	
Dichlorodifluoromethane	ug/kg	1250	1210	97	12-159	
Ethylbenzene	ug/kg	1250	1340	107	69-127	
Hexachloro-1,3-butadiene	ug/kg	1250	1310	105	77-133	
Isopropylbenzene (Cumene)	ug/kg	1250	1420	113	83-122	
Methyl-tert-butyl ether	ug/kg	1250	1390	111	58-137	
Methylene Chloride	ug/kg	1250	1340	107	68-125	
n-Butylbenzene	ug/kg	1250	1290	104	73-131	
n-Propylbenzene	ug/kg	1250	1320	106	82-122	
Naphthalene	ug/kg	1250	1200	96	60-136	
p-Isopropyltoluene	ug/kg	1250	1370	109	74-129	
sec-Butylbenzene	ug/kg	1250	1310	105	71-133	
Styrene	ug/kg	1250	1480	119	84-121	
tert-Butylbenzene	ug/kg	1250	1370	110	81-122	
Tetrachloroethene	ug/kg	1250	1330	106	78-130	
Toluene	ug/kg	1250	1210	96	80-118	

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

LABORATORY CONTROL SAMPLE: 3513854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/kg	1250	1340	107	78-118	
trans-1,3-Dichloropropene	ug/kg	1250	1480	118	81-123	
Trichloroethene	ug/kg	1250	1270	102	78-127	
Trichlorofluoromethane	ug/kg	1250	1060	85	64-133	
Vinyl chloride	ug/kg	1250	1230	98	45-139	
Xylene (Total)	ug/kg	3750	4120	110	69-130	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	83-119	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513855 3513856

Parameter	Units	MS 60449383008		MSD		MS 3513855		MSD 3513856		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/kg	ND	1630	1630	1630	1860	1860	114	114	12-128	0	59	
1,1,1-Trichloroethane	ug/kg	ND	1630	1630	1630	1800	1730	110	106	15-131	4	75	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1630	1630	1630	1730	1700	106	104	10-132	2	65	
1,1,2-Trichloroethane	ug/kg	ND	1630	1630	1630	1740	1720	107	105	14-132	1	54	
1,1-Dichloroethane	ug/kg	ND	1630	1630	1630	1710	1610	105	99	23-126	6	64	
1,1-Dichloroethene	ug/kg	ND	1630	1630	1630	1650	1690	101	104	20-129	3	80	
1,1-Dichloropropene	ug/kg	ND	1630	1630	1630	1680	1600	103	98	15-127	5	78	
1,2,3-Trichlorobenzene	ug/kg	ND	1630	1630	1630	1450	1420	89	87	10-124	2	67	
1,2,3-Trichloropropane	ug/kg	ND	1630	1630	1630	1660	1630	102	100	19-125	2	51	
1,2,4-Trichlorobenzene	ug/kg	ND	1630	1630	1630	1560	1520	95	93	10-129	3	73	
1,2,4-Trimethylbenzene	ug/kg	ND	1630	1630	1630	1800	1730	110	106	10-124	4	68	
1,2-Dibromo-3-chloropropane	ug/kg	ND	1630	1630	1630	1560	1490	96	91	10-135	5	56	
1,2-Dibromoethane (EDB)	ug/kg	ND	1630	1630	1630	1760	1760	108	108	23-123	0	50	
1,2-Dichlorobenzene	ug/kg	ND	1630	1630	1630	1590	1530	98	94	10-126	4	60	
1,2-Dichloroethane	ug/kg	ND	1630	1630	1630	1700	1620	104	99	27-116	5	45	
1,2-Dichloroethene (Total)	ug/kg	ND	3270	3270	3270	3210	3060	98	94	20-127	5	64	
1,2-Dichloropropane	ug/kg	ND	1630	1630	1630	1740	1660	107	102	21-125	5	57	
1,3,5-Trimethylbenzene	ug/kg	ND	1630	1630	1630	1790	1700	110	104	10-125	5	65	
1,3-Dichlorobenzene	ug/kg	ND	1630	1630	1630	1670	1600	102	98	10-126	4	63	
1,3-Dichloropropane	ug/kg	ND	1630	1630	1630	1750	1720	107	105	24-114	1	51	
1,4-Dichlorobenzene	ug/kg	ND	1630	1630	1630	1610	1540	98	94	10-126	5	62	
2,2-Dichloropropane	ug/kg	ND	1630	1630	1630	1460	1390	90	85	17-124	5	70	
2-Butanone (MEK)	ug/kg	ND	8160	8160	8160	7730	7420	95	91	29-120	4	50	
2-Chlorotoluene	ug/kg	ND	1630	1630	1630	1720	1660	105	101	10-138	4	70	
2-Hexanone	ug/kg	ND	8160	8160	8160	8360	8030	102	98	25-121	4	51	
4-Chlorotoluene	ug/kg	ND	1630	1630	1630	1720	1670	106	102	10-112	3	62	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	8160	8160	8160	8960	8640	110	106	23-131	4	50	
Acetone	ug/kg	ND	8160	8160	8160	8650	8030	106	98	15-129	7	49	
Benzene	ug/kg	ND	1630	1630	1630	1580	1520	97	93	17-134	4	53	
Bromobenzene	ug/kg	ND	1630	1630	1630	1680	1650	103	101	10-129	2	63	

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		3513855			3513856							
Parameter	Units	60449383008 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		
Bromochloromethane	ug/kg	ND	1630	1630	1790	1720	110	105	28-118	4	53	
Bromodichloromethane	ug/kg	ND	1630	1630	1760	1700	108	104	21-126	4	59	
Bromoform	ug/kg	ND	1630	1630	1940	1980	119	121	14-127	2	60	
Bromomethane	ug/kg	ND	1630	1630	1540	1590	94	97	10-121	3	67	
Carbon disulfide	ug/kg	ND	1630	1630	1590	1590	97	97	10-122	0	78	
Carbon tetrachloride	ug/kg	ND	1630	1630	1860	1800	114	110	10-134	3	82	
Chlorobenzene	ug/kg	ND	1630	1630	1630	1590	100	97	10-126	3	60	
Chloroethane	ug/kg	ND	1630	1630	1580	1490	97	91	10-133	6	79	
Chloroform	ug/kg	ND	1630	1630	1680	1590	103	97	24-126	5	60	
Chloromethane	ug/kg	ND	1630	1630	1230	1160	75	71	10-125	6	78	
cis-1,2-Dichloroethene	ug/kg	ND	1630	1630	1540	1470	94	90	18-131	4	62	
cis-1,3-Dichloropropene	ug/kg	ND	1630	1630	1840	1790	113	110	24-117	3	60	
Dibromochloromethane	ug/kg	ND	1630	1630	1900	1910	116	117	22-117	1	59	
Dibromomethane	ug/kg	ND	1630	1630	1790	1730	110	106	29-118	4	52	
Dichlorodifluoromethane	ug/kg	ND	1630	1630	1310	1260	80	77	10-161	4	84	
Ethylbenzene	ug/kg	ND	1630	1630	1700	1660	104	102	10-137	2	60	
Hexachloro-1,3-butadiene	ug/kg	ND	1630	1630	1620	1580	99	97	10-124	3	76	
Isopropylbenzene (Cumene)	ug/kg	ND	1630	1630	1870	1800	115	110	10-123	4	72	
Methyl-tert-butyl ether	ug/kg	ND	1630	1630	1770	1760	108	108	31-126	0	42	
Methylene Chloride	ug/kg	ND	1630	1630	1700	1610	104	99	23-117	5	59	
n-Butylbenzene	ug/kg	ND	1630	1630	1610	1540	99	94	10-130	4	78	
n-Propylbenzene	ug/kg	ND	1630	1630	1710	1650	105	101	10-121	4	70	
Naphthalene	ug/kg	ND	1630	1630	1580	1570	97	96	10-131	1	63	
p-Isopropyltoluene	ug/kg	ND	1630	1630	1780	1700	109	104	10-127	4	76	
sec-Butylbenzene	ug/kg	ND	1630	1630	1730	1670	106	102	10-137	4	81	
Styrene	ug/kg	ND	1630	1630	1900	1810	116	111	10-119	5	56	
tert-Butylbenzene	ug/kg	ND	1630	1630	1800	1750	110	107	10-121	3	80	
Tetrachloroethene	ug/kg	ND	1630	1630	1640	1640	100	100	10-131	0	78	
Toluene	ug/kg	ND	1630	1630	1520	1490	93	91	13-131	2	60	
trans-1,2-Dichloroethene	ug/kg	ND	1630	1630	1670	1590	102	97	22-125	5	70	
trans-1,3-Dichloropropene	ug/kg	ND	1630	1630	1850	1840	113	112	20-122	0	54	
Trichloroethene	ug/kg	ND	1630	1630	1690	1620	103	99	14-144	4	69	
Trichlorofluoromethane	ug/kg	ND	1630	1630	2010	1740	123	106	10-134	15	86	
Vinyl chloride	ug/kg	ND	1630	1630	1500	1470	92	90	10-141	2	81	
Xylene (Total)	ug/kg	ND	4900	4900	5330	5110	109	104	10-137	4	58	
1,2-Dichlorobenzene-d4 (S)	%						101	100	80-120			
4-Bromofluorobenzene (S)	%						102	101	83-119			
Toluene-d8 (S)	%						100	99	80-120			

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch:	887699	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001, 60449312003, 60449312004

METHOD BLANK: 3513865 Matrix: Solid

Associated Lab Samples: 60449312001, 60449312003, 60449312004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1221 (Aroclor 1221)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.8	03/25/24 21:23	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.8	03/25/24 21:23	
Decachlorobiphenyl (S)	%	105	20-120	03/25/24 21:23	

LABORATORY CONTROL SAMPLE: 3513866

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	164	150	91	48-120	
PCB-1260 (Aroclor 1260)	ug/kg	164	163	99	55-120	
Decachlorobiphenyl (S)	%			103	20-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3513867 3513868

Parameter	Units	60449488001		3513867		3513868		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result	MSD Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	269	268	263	256	98	95	48-120	3	40		
PCB-1260 (Aroclor 1260)	ug/kg	ND	269	268	286	279	106	104	55-120	2	40		
Decachlorobiphenyl (S)	%						90	87	20-120		40		

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch: 887409

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270/3546 MSSV PAH by SIM

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001

METHOD BLANK: 3512642

Matrix: Solid

Associated Lab Samples: 60449312001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	3.2	03/21/24 16:28	
Acenaphthylene	ug/kg	ND	3.2	03/21/24 16:28	
Anthracene	ug/kg	ND	3.2	03/21/24 16:28	
Benzo(a)anthracene	ug/kg	ND	3.2	03/21/24 16:28	
Benzo(a)pyrene	ug/kg	ND	3.2	03/21/24 16:28	
Benzo(b)fluoranthene	ug/kg	ND	3.2	03/21/24 16:28	
Benzo(g,h,i)perylene	ug/kg	ND	3.2	03/21/24 16:28	
Benzo(k)fluoranthene	ug/kg	ND	3.2	03/21/24 16:28	
Chrysene	ug/kg	ND	3.2	03/21/24 16:28	
Dibenz(a,h)anthracene	ug/kg	ND	3.2	03/21/24 16:28	
Fluoranthene	ug/kg	ND	3.2	03/21/24 16:28	
Fluorene	ug/kg	ND	3.2	03/21/24 16:28	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3.2	03/21/24 16:28	
Naphthalene	ug/kg	ND	3.2	03/21/24 16:28	
Phenanthrene	ug/kg	ND	3.2	03/21/24 16:28	
Pyrene	ug/kg	ND	3.2	03/21/24 16:28	
2-Fluorobiphenyl (S)	%	85	40-120	03/21/24 16:28	
Terphenyl-d14 (S)	%	98	45-130	03/21/24 16:28	

LABORATORY CONTROL SAMPLE: 3512643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	32.5	29.5	91	45-120	
Acenaphthylene	ug/kg	32.5	30.0	92	50-120	
Anthracene	ug/kg	32.5	30.7	95	50-120	
Benzo(a)anthracene	ug/kg	32.5	33.5	103	55-125	
Benzo(a)pyrene	ug/kg	32.5	32.9	101	45-120	
Benzo(b)fluoranthene	ug/kg	32.5	34.7	107	50-125	
Benzo(g,h,i)perylene	ug/kg	32.5	33.5	103	40-120	
Benzo(k)fluoranthene	ug/kg	32.5	31.5	97	55-120	
Chrysene	ug/kg	32.5	31.5	97	55-120	
Dibenz(a,h)anthracene	ug/kg	32.5	33.6	103	40-125	
Fluoranthene	ug/kg	32.5	33.9	104	50-125	
Fluorene	ug/kg	32.5	30.6	94	50-120	
Indeno(1,2,3-cd)pyrene	ug/kg	32.5	34.5	106	44-125	
Naphthalene	ug/kg	32.5	29.5	91	45-120	
Phenanthrene	ug/kg	32.5	31.0	95	50-125	
Pyrene	ug/kg	32.5	32.6	100	50-125	
2-Fluorobiphenyl (S)	%			87	40-120	

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

LABORATORY CONTROL SAMPLE: 3512643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			97	45-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512644 3512645

Parameter	Units	60449092001		MSD		MSD		% Rec		Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Acenaphthene	ug/kg	ND	38.5	38.6	33.4J	31.9J	87	82	10-150	42	
Acenaphthylene	ug/kg	ND	38.5	38.6	30.6J	32.6J	79	84	30-125	44	
Anthracene	ug/kg	ND	38.5	38.6	41.5	39.4	108	102	10-160	5	54
Benzo(a)anthracene	ug/kg	56.3	38.5	38.6	84.9	86.4	74	78	10-160	2	62
Benzo(a)pyrene	ug/kg	48.1	38.5	38.6	74.2	72.7	68	64	10-150	2	66
Benzo(b)fluoranthene	ug/kg	69.8	38.5	38.6	91.0	95.4	55	66	10-165	5	61
Benzo(g,h,i)perylene	ug/kg	61.8	38.5	38.6	86.5	87.0	64	65	10-155	1	58
Benzo(k)fluoranthene	ug/kg	ND	38.5	38.6	55.9	51.8	80	70	10-165	8	53
Chrysene	ug/kg	48.5	38.5	38.6	72.7	73.2	63	64	10-150	1	57
Dibenz(a,h)anthracene	ug/kg	ND	38.5	38.6	38.1J	41.5	99	107	10-175		48
Fluoranthene	ug/kg	86.1	38.5	38.6	120	119	88	86	10-180	0	54
Fluorene	ug/kg	ND	38.5	38.6	34.9J	34.1J	90	88	20-145		39
Indeno(1,2,3-cd)pyrene	ug/kg	ND	38.5	38.6	61.7	64.7	72	80	10-150	5	59
Naphthalene	ug/kg	ND	38.5	38.6	36.6J	37.3J	95	97	10-165		54
Phenanthrene	ug/kg	43.5	38.5	38.6	88.2	72.0	116	74	10-170	20	51
Pyrene	ug/kg	74.4	38.5	38.6	103	104	74	76	10-180	1	61
2-Fluorobiphenyl (S)	%						75	77	40-120		
Terphenyl-d14 (S)	%						80	85	45-130		D3

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

QC Batch: 887433

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60449312001, 60449312003, 60449312004

METHOD BLANK: 3512754

Matrix: Solid

Associated Lab Samples: 60449312001, 60449312003, 60449312004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	03/20/24 14:35	

SAMPLE DUPLICATE: 3512755

Parameter	Units	60449298001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.0	19.1	1	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

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 adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CARR LANE JSH0002.PR

Pace Project No.: 60449312

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60449312001	CL-01	EPA 3546	887699	EPA 8082	887913
60449312003	CL-02	EPA 3546	887699	EPA 8082	887913
60449312004	CL-03	EPA 3546	887699	EPA 8082	887913
60449312001	CL-01	EPA 3050	887709	EPA 6010	887856
60449312001	CL-01	EPA 7471	887436	EPA 7471	887816
60449312001	CL-01	EPA 3546	887409	EPA 8270 by SIM	887490
60449312001	CL-01	EPA 5035A/5030B	887690	EPA 8260C	887695
60449312002	CL-01-DUP	EPA 5035A/5030B	887690	EPA 8260C	887695
60449312003	CL-02	EPA 5035A/5030B	887690	EPA 8260C	887695
60449312004	CL-03	EPA 5035A/5030B	887690	EPA 8260C	887695
60449312001	CL-01	ASTM D2974	887433		
60449312003	CL-02	ASTM D2974	887433		
60449312004	CL-03	ASTM D2974	887433		

REPORT OF LABORATORY ANALYSIS

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WO#: 60449312



DC#_Title: ENV-FRM-LENE-0009_Sample C

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: HRP

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T298 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 3.0 Corr. Factor -0.3 Corrected 2.7

Date and initials of person examining contents:

3/20/24

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>4 Day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: <u>MO</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here



60449312

Scan QR Code for instructions

Company Name: HRP Associates, Inc.
 Street Address: 2500 S. Old Highway 94, St. Charles, MO 63303
 Contact/Report To: Chris Tedder
 Phone #: 314-200-4720
 E-Mail: chris.tedder@hrpassociates.com
 Cc E-Mail:

Customer Project #: *HRP project # 15440003-22*
 Project Name: *Carlane 55th 0602, 72*

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 Missouri: [] Yes [] No
 Rush (Pre-approval required): DW PWSID # or WW Permit # as applicable:
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results Requested: *3/26/24*
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

Customer Sample ID	Matrix *	Composite Start		# Cont.	Res. Chlorine Results	Units
		Date	Time			
<i>CL-01</i>	<i>SS G</i>	<i>3/19/24</i>	<i>10:00</i>			
<i>CL-01-Dup</i>			<i>10:00</i>			
<i>CL-02</i>			<i>10:35</i>			
<i>CL-03</i>			<i>11:00</i>			

Additional Instructions from Pace*:
 Collected By: *Chris Tedder*
 Signature: *Chris Tedder*

Received by/Company (Signature): *Chris Tedder*
 Date/Time: *3/19/24 1322*

Received by/Company (Signature): *Chris Tedder*
 Date/Time: *3/19/24 1322*

Received by/Company (Signature): *Chris Tedder*
 Date/Time: *3/19/24 1322*

Received by/Company (Signature): *Chris Tedder*
 Date/Time: *3/19/24 1322*

Specify Container Size **

Identify Container Preservative Type ***

Analysis Requested

Lab Use Only

Proj. Mgr: **Nollie Wood**
 AcctNum / Client ID:
 Table #:
 Profile / Template: **16241**
 Prelog / Bottle Ord. ID: **EZ 3084377**

Sample Comment

6010 MET ICP Red. Interference: 7471	8082 GCS PCB SW	8082 GCS PCB SW, 8270 MSSV PAH by SIM	8260 MSV Full list	8260C MSV LL Full list	Percent Moisture
X	X	X	X	X	
	X	X	X	X	
	X	X	X	X	
	X	X	X	X	

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: **1**
 Thermometer ID: **7228**
 Obs. Temp (°C): **3-u**
 Correction Factor (°C): **-0.3**
 On Ice: **2-7**

Tracking Number: **3/20/24 0540**

Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other

Page: **1** of **1**

