

SAMPLING REPORT
Marion County Landfill
Marion, Kansas

Prepared for:
Sharon Omstead
Marion County
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June 29, 2023

Prepared by:
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GSI Project Number: 23W2089.01



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1.0 INTRODUCTION

GSI Engineering LLC, (GSI), was retained by Marion County, Kansas to conduct sampling of monitoring wells at the Closed Marion County Landfill (Site). This sampling event was conducted in general accordance with *Recommended Groundwater Monitoring Parameters and Detection limits for Landfills Closed Prior to April 9, 1994*.

This report is to provide a description of the activities conducted at the Site, to evaluate, and to provide a discussion pertaining to the results of the groundwater sampling.

2.0 SITE DESCRIPTION AND LOCATION

The Closed Marion County Landfill (Site) is located east of Sunflower Road and west of Commercial Street, near Marion, Kansas, with a geographical description of the southwest quarter of Section 5, Township 20 South, Range 4 East, Marion County, Kansas. Appendix A – Figure 1.0, Site Location Map shows the approximate location of the site.

2.1 Geology and Hydrogeology

Soils within Marion County are generally composed of the silt loam of the Verdigris series and the Reading series. The Verdigris series, with slopes ranging from 0-1 percent, consists of very deep, well drained soils that formed in silty alluvium on flood plains. As much as seven (7) inches of very dark brown silt loam may overlie very dark brown silt loam. The Reading series consists of very deep, well drained moderately well drained soils that formed in silty alluvium. Reading soils are on flood-plain steps and streams terraces in Nebraska and Kansas Loess-Drift Hills. Zero (0) to six (6) inches of very dark grayish silty clay loam may be present over very dark grayish brown silty clay loam.

The upper groundwater producing bedrock unit in the area is the early Permian-age Winfield Limestone within the Chase group, which is mainly cherty limestone with fossiliferous gray shale. The presumed groundwater flow direction in the area is in the southeast, with static groundwater levels varying between 12 to 80 feet below ground surface (bgs).

3.0 SUMMARY OF FIELD ACTIVITIES

3.1 Groundwater Sampling

GSI personnel traveled to the Site on May 31, 2023, to conduct groundwater sampling. There are six (6) monitoring wells that are gauged onsite, while four (4) are sampled at the Site: MW-1A, MW-2A, MW-3A, MW-4 (gauge only). MW-5A, and MW-6 (gauge only).

During the sampling event water levels were measured on the north side of the monitoring well casing using a water level indicator prior to sample collection. The levels were recorded to the nearest hundredth (0.01) foot.

The water level indicator was decontaminated using an Alconox® solution and a stainless steel or nylon brush, followed by a potable and distilled or deionized water rinse. Field personnel wore disposable gloves during the process to increase personal protection and prevent cross-contamination. New gloves were worn between each sample.

Groundwater samples were collected on May 31, 2023, from monitoring wells utilizing the HydraSleeve™ No Purge Samplers (HydraSleeve). Following the collection of water level and depth measurements, the HydraSleeve was lowered using a weight and tether to approximately one (1) foot above the total depth of the well. GSI retrieved the HydraSleeve from the monitoring well by pulling the tether in a quick and careful manner so as to fill up the sampler completely. When activated, the HydraSleeve collects a representative groundwater sample from a very defined interval in the monitoring well with minimal agitation and no displacement. When full it seals itself, isolating the sample from fluid from other zones. The sampler was brought to the surface and hung from a stable rack or hook before collecting the sample. The HydraSleeve was pierced with a straw, provided by the supplier, near the bottom of the sleeve and groundwater was carefully collected into the laboratory provided containers.

Groundwater samples were collected in the sample containers provided by the laboratory and preserved in a manner appropriate for the sample collected. All samples were placed in a cooler with ice immediately after collection. Samples were collected for volatile organic compounds (VOCs) analysis. VOCs were analyzed by Environmental Protection Agency (EPA) Method 8260 and were collected in HCl-preserved 40-ml volatile organic analysis (VOA) vials.

Groundwater samples were immediately placed into a cooler with ice for preservation in the field and during shipment to the laboratory. Samples were submitted for laboratory analysis under proper chain-of-custody procedures to Pace Analytical Services, LLC, Salina, Kansas. Pace is a Kansas state certified laboratory.

Depth to groundwater, any visual observations, and other pertinent data were described in the field notes included in Appendix C.

4.0 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

This section describes the groundwater sampling and analytical results with some data interpretation. The analytical results are compared to the *Groundwater Monitoring Parameters and Detection limits for Landfills Closed Prior to April 9, 1994*. The groundwater analytical results are further presented in Appendix B and Appendix D.

4.1 Volatile Organic Compounds (VOCs)

No VOCs were identified in any groundwater sample exceeding the laboratory detection limits.

4.2 Quality Assurance/Quality Control Sample Results

Groundwater sampling activities were performed in accordance with commonly used QA/QC goals. Field staff were responsible for QA under the chain-of-custody procedures. To minimize the potential for cross contamination, disposable sampling equipment and all non-dedicated equipment was routinely decontaminated using Alconox® cleaning solutions in combination with brush removals, and potable and distilled water rinses as required between sampling locations.

A duplicate sample was collected during this monitoring event. The field duplicate was taken at MW-1A and labeled as "DUP-01". Analytical results for the duplicate sample were similar as compared to the primary sample collected from MW-1A, indicating good reproducibility.

A Trip Blank was kept in the cooler with the sample containers and analyzed in the same manner as the groundwater samples. Contaminants of concern (COCs) were not detected in any trip blanks. Therefore, contamination was not introduced during handling and shipment of the samples.

Review of the analytical report identified a total of three (3) data qualifiers with only one (1) applying to the samples collected by GSI. For the remaining qualifiers associated with the laboratory QA/QC procedures, please refer to the laboratory analytical report included in Appendix D.

- A “c2” qualifier was reported for 2-Chloroethylvinyl ether in all samples, which indicates that acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

In general, the laboratory and field QA/QC parameters were considered acceptable as reported and qualified.

5.0 CONCLUSIONS

Based on the current laboratory analytical results, VOCs were not detected in any groundwater sample.

6.0 LIMITATIONS

This report has been prepared on behalf of and for the exclusive use of our Client regarding the Site listed herein. Data and statements made in this report refer only to the Site and for the period of time when GSI performed the work. GSI has prepared this document in accordance with professional principles and practices generally accepted at the time and in the locality where services were rendered.

APPENDIX A – Figures

Site Boundary

0 400 800 Feet

bing

Map of Kansas showing county boundaries. The study site is located in Marion County, indicated by a red dot and a green square boundary. The site is labeled "Site Boundary". Surrounding states are Nebraska, Iowa, Missouri, Texas, and Oklahoma. Major cities labeled include Omaha, Kansas City, Wichita, Tulsa, and Oklahoma City. A scale bar indicates 0 to 140 miles.

The map shows the study area in south-central Kansas. A red dot labeled "Site Boundary" is located north of Newton. Newton is a city located on the I-40 corridor. El Dorado is a city located on the I-17 corridor. Wichita is a city located on the I-70 corridor. The map includes major roads (I-40, I-17, I-70) and a scale bar (0 to 16 miles).

A topographic map of the WilsoN area, featuring contour lines, a grid, and various geographical features. A red rectangle highlights a specific area labeled "Site Boundary". The map includes labels for "South", "Spring", "Branch", and "WILSON". Contour lines are marked with elevations such as 1320, 1350, 1380, and 1400. A grid system is overlaid with numbers 10, 11, 12, 13, 14, 18, 22, 23, and 24. A "Cem." (Cemetery) is also indicated. The "Site Boundary" is a red rectangle located in the center-right of the map, near the intersection of grid lines 11 and 14, and 1350 and 1370.



2000200

SCALE: 1" = 200'

LEGEND

=Monitoring Well

JOB#:
23W2109.01

DRAWN BY:
CJ

DATE:
06/29/2023

PROJ. MANGR:
AR

Marion County Landfill
Marion, KS

Site Base Map

GSI

4503 EAST 47TH STREET S
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 Fax:
316-554-0744

FIGURE
2.0

APPENDIX B – Tables

Marion County Landfill
Table 1.0 - Groundwater Elevation Data

Well ID	Date	Bolt/Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Level Elevation (feet)	Total Depth (feet)
MW-1A	05/31/23	unavailable	unavailable	22.66	NA	29.91
MW-2A	05/31/23	unavailable	unavailable	12.28	NA	15.97
MW-3A	05/31/23	unavailable	unavailable	13.05	NA	37.96
MW-4	05/31/23	unavailable	unavailable	13.45	NA	NA
MW-5A	05/31/23	unavailable	unavailable	16.55	NA	25.25
MW-6	05/31/23	unavailable	unavailable	20.18	NA	NA

NA = Not Applicable

Marion County Landfill
Table 2.0 - Groundwater VOCs Analytical Results

		Benzene	Carbon Tetrachloride	Chlorobenzene	Chloromethane	Chloroform	Dibromochloromet hane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2- Dichloroethene	trans-1,2- Dichloroethene	Ethylbenzene	Methyl-tert-butyl ether	Styrene	1,1,2,2- Tetrachloroethane	Tetrachloroethene	Toluene	1,1,1- Trichloroethane	1,1,2- Trichloroethane	Trichloroethane	Trichlorotrifluorom ethane	Vinyl Chloride	m&p Xylene	o-xylene
Well	Date																								
Detection Limit		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.50
Analytical Method		EPA Method 8260																							
MCL		5.0	5.0	100.0	127.0	80.0	80.0	25.0	5.0	7.0	70.0	100.0	700.0	133.0	100.0	5.35	5.0	1,000.0	200.0	5.0	5.0	1,090.0	2.0	10,000.0	10,000.0
MW-1A	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
MW-2A	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
MW-3A	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
MW-4	5/31/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5A	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
MW-6	5/31/2023	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
DUP-01	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)
Trip Blank	5/31/2023	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (1.0)	ND (0.5)	ND (0.5)	ND (0.5)

All Concentrations are shown in micrograms per Liter (µg/L)

MCL = Maximum Contaminant Limit

ND = Not Detected above laboratory detection limits shown in parentheses


DUP-01 is a field duplicate of MW-1A

Not all VOCs shown; see laboratory report for full results. All results were non-detect.

APPENDIX C – Field Notes

Rev. 2022

Project Name:		Project Location:		GSI Project No:	Field Lead:	GSI PM:
Marion County Landfill		Marion, KS		23W2109.01	BJ Snapp	
Well ID	Initial SWL	Total Depth	Old Tag New Tag	Date/Time Installed	Date/Time Sampled	Notes/Repairs Needed
MW-2A	12.28	15.97			5-31-23 0938	
MW-6	20.18					
MW-4	13.45					
MW-5A	16.55	25.25			1004	
MW-1A	22.66	29.91			1017	Dup-OI taken at this well
MW-3A	13.05	37.96			1030	

Signature:	Date:
	5-31-23

QA/QC Procedures:

PLEASE NOTE THE ATTACHED Pace SAMPLE ACCEPTANCE POLICY

Client/Reporting Information				Invoice Information				PARAMETERS/CONTAINER TYPE										COMMENTS											
Company Name: Marion County				Company Name: GSI				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">KDHE Low Level Landfill VOCs 3-4mL vials - HCl</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Static Water Level</div> </div>																					
Address:				Address:																									
City:		State:		Zip:		City:													State:		Zip:								
Contact:				Contact:																									
E-mail:				E-mail:																									
Phone Number:				Fax Number:				Phone Number:				Fax Number:																	
Sampler's Name: (Printed) <i>William Snaps</i>		Sampler's Name: (Signature) <i>[Signature]</i>		Purchase Order Number:																									
File Number:		Project Name: Marion County Landfill		C-Composite G-Grab	Total Containers	Number of Preserved Bottles						OTHER:																	
SAMPLE IDENTIFICATION (30 Characters or less)		Matrix (Sample Type)	Regulatory Program	Date Sampled	Time Sampled			HCl	NaOH	HNO3	H2SO4	NONE																	
MW-2A		GW	R	5-31-23	0938	G	3	3							X	X													
MW-5A		GW	R		1004	G	3	3							X	X													
MW-1A		GW	R		1017	G	3	3							X	X													
DUP-01		GW	R		1100	G	3	3							X	X													
MW-3A		GW	R		1030	G	3	3							X	X													
TRIP BLANK		GW	R		0800	G	3	3							X														
Matrix (Sample Type): DW=Drinking Water, GW=Ground Water, WW=Waste Water, W=Wipe, S=Solid/Soil, SL=Sludge, A=Air, OL= Oil/Organic Liquid, O=Other																													
Regulatory Program: N=NPDES, R=RCRA, D=Drinking Water, SL=503 Sludge, Q=Other																													
(Please note if non-standard turnaround. Rush & Emergency subject to additional charge) Standard TAT: (15 working days) Rush TAT: (5 working days) Emergency TAT: (3 working days)																													
RELINQUISHED BY:						DATE:		TIME:		RECEIVED BY:						DATE:		TIME:											
RELINQUISHED BY:						DATE:		TIME:		RECEIVED BY:						DATE:		TIME:											
RECEIVED AT LAB BY:						DATE:		TIME:		SHIPPED VIA:						SEAL #:													
										AIRBILL:						SEAL DATE:													

Pace's Standard Terms and Conditions will apply to all samples received unless a separate contractual agreement has been made.

APPENDIX D – Laboratory Analytical Reports

June 15, 2023

Dave Poague
GSI
4503 E 47th St South
Wichita, KS 67210

RE: Project: MARION COUNTY LANDFILL
Pace Project No.: 60429879

Dear Dave Poague:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2023. 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,



Petra Craddock
petra.craddock@pacelabs.com
(785)827-1273
PM Lab Management

Enclosures



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 88-00679

Illinois Certification #: 2000302023-5

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-22-16

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60429879001	MW-2A	Water	05/31/23 09:38	05/31/23 16:30
60429879002	MW-5A	Water	05/31/23 10:04	05/31/23 16:30
60429879003	MW-1A	Water	05/31/23 10:17	05/31/23 16:30
60429879004	DUP-01	Water	05/31/23 11:00	05/31/23 16:30
60429879005	MW-3A	Water	05/31/23 10:30	05/31/23 16:30
60429879006	TRIP BLANK	Water	05/31/23 08:00	05/31/23 16:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60429879001	MW-2A	EPA 5030B/8260	HM1	43	PASI-K
60429879002	MW-5A	EPA 5030B/8260	HM1	43	PASI-K
60429879003	MW-1A	EPA 5030B/8260	HM1	43	PASI-K
60429879004	DUP-01	EPA 5030B/8260	HM1	43	PASI-K
60429879005	MW-3A	EPA 5030B/8260	HM1	43	PASI-K
60429879006	TRIP BLANK	EPA 5030B/8260	HM1	43	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: MW-2A		Lab ID: 60429879001		Collected: 05/31/23 09:38		Received: 05/31/23 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		06/02/23 23:53	67-64-1	c2	
Benzene	ND	ug/L	0.50	1		06/02/23 23:53	71-43-2		
Bromodichloromethane	ND	ug/L	0.50	1		06/02/23 23:53	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/02/23 23:53	75-25-2		
Bromomethane	ND	ug/L	0.50	1		06/02/23 23:53	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/02/23 23:53	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/02/23 23:53	75-15-0		
Carbon tetrachloride	ND	ug/L	0.50	1		06/02/23 23:53	56-23-5		
Chlorobenzene	ND	ug/L	0.50	1		06/02/23 23:53	108-90-7		
Chloroethane	ND	ug/L	0.50	1		06/13/23 16:34	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/02/23 23:53	110-75-8		
Chloroform	ND	ug/L	0.50	1		06/02/23 23:53	67-66-3		
Chloromethane	ND	ug/L	0.50	1		06/02/23 23:53	74-87-3		
Dibromochloromethane	ND	ug/L	0.50	1		06/02/23 23:53	124-48-1		
1,1-Dichloroethane	ND	ug/L	0.50	1		06/02/23 23:53	75-34-3		
1,2-Dichloroethane	ND	ug/L	0.50	1		06/02/23 23:53	107-06-2		
1,1-Dichloroethene	ND	ug/L	0.50	1		06/02/23 23:53	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/02/23 23:53	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/02/23 23:53	156-60-5		
1,2-Dichloropropane	ND	ug/L	0.50	1		06/02/23 23:53	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/02/23 23:53	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/02/23 23:53	10061-02-6		
Ethylbenzene	ND	ug/L	0.50	1		06/02/23 23:53	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/02/23 23:53	591-78-6		
Methylene Chloride	ND	ug/L	0.50	1		06/02/23 23:53	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/02/23 23:53	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/02/23 23:53	1634-04-4		
Styrene	ND	ug/L	0.50	1		06/02/23 23:53	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/02/23 23:53	79-34-5		
Tetrachloroethene	ND	ug/L	0.50	1		06/02/23 23:53	127-18-4		
Toluene	ND	ug/L	0.50	1		06/02/23 23:53	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/02/23 23:53	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/02/23 23:53	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		06/02/23 23:53	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/02/23 23:53	75-69-4		
Vinyl acetate	ND	ug/L	20.0	1		06/02/23 23:53	108-05-4		
Vinyl chloride	ND	ug/L	0.50	1		06/02/23 23:53	75-01-4		
m&p-Xylene	ND	ug/L	0.50	1		06/02/23 23:53	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		06/02/23 23:53	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	105	%	80-120	1		06/02/23 23:53	460-00-4		
Toluene-d8 (S)	99	%	80-120	1		06/02/23 23:53	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		06/02/23 23:53	2199-69-1		
Preservation pH	1.0		0.10	1		06/02/23 23:53			

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: MW-5A		Lab ID: 60429879002	Collected: 05/31/23 10:04	Received: 05/31/23 16:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City						
Acetone	ND	ug/L	10.0	1		06/03/23 00:09	67-64-1	
Benzene	ND	ug/L	0.50	1		06/03/23 00:09	71-43-2	
Bromodichloromethane	ND	ug/L	0.50	1		06/03/23 00:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/03/23 00:09	75-25-2	
Bromomethane	ND	ug/L	0.50	1		06/03/23 00:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/03/23 00:09	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		06/03/23 00:09	75-15-0	
Carbon tetrachloride	ND	ug/L	0.50	1		06/03/23 00:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		06/03/23 00:09	108-90-7	
Chloroethane	ND	ug/L	0.50	1		06/13/23 16:50	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/03/23 00:09	110-75-8	c2
Chloroform	ND	ug/L	0.50	1		06/03/23 00:09	67-66-3	
Chloromethane	ND	ug/L	0.50	1		06/03/23 00:09	74-87-3	
Dibromochloromethane	ND	ug/L	0.50	1		06/03/23 00:09	124-48-1	
1,1-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		06/03/23 00:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:09	10061-02-6	
Ethylbenzene	ND	ug/L	0.50	1		06/03/23 00:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/03/23 00:09	591-78-6	
Methylene Chloride	ND	ug/L	0.50	1		06/03/23 00:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/03/23 00:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/23 00:09	1634-04-4	
Styrene	ND	ug/L	0.50	1		06/03/23 00:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/03/23 00:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		06/03/23 00:09	127-18-4	
Toluene	ND	ug/L	0.50	1		06/03/23 00:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		06/03/23 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/23 00:09	75-69-4	
Vinyl acetate	ND	ug/L	20.0	1		06/03/23 00:09	108-05-4	
Vinyl chloride	ND	ug/L	0.50	1		06/03/23 00:09	75-01-4	
m&p-Xylene	ND	ug/L	0.50	1		06/03/23 00:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		06/03/23 00:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		06/03/23 00:09	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		06/03/23 00:09	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		06/03/23 00:09	2199-69-1	
Preservation pH	1.0		0.10	1		06/03/23 00:09		

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: MW-1A		Lab ID: 60429879003		Collected: 05/31/23 10:17		Received: 05/31/23 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		06/03/23 00:25	67-64-1	c2	
Benzene	ND	ug/L	0.50	1		06/03/23 00:25	71-43-2		
Bromodichloromethane	ND	ug/L	0.50	1		06/03/23 00:25	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/03/23 00:25	75-25-2		
Bromomethane	ND	ug/L	0.50	1		06/03/23 00:25	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/03/23 00:25	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/03/23 00:25	75-15-0		
Carbon tetrachloride	ND	ug/L	0.50	1		06/03/23 00:25	56-23-5		
Chlorobenzene	ND	ug/L	0.50	1		06/03/23 00:25	108-90-7		
Chloroethane	ND	ug/L	0.50	1		06/13/23 17:06	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/03/23 00:25	110-75-8		
Chloroform	ND	ug/L	0.50	1		06/03/23 00:25	67-66-3		
Chloromethane	ND	ug/L	0.50	1		06/03/23 00:25	74-87-3		
Dibromochloromethane	ND	ug/L	0.50	1		06/03/23 00:25	124-48-1		
1,1-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:25	75-34-3		
1,2-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:25	107-06-2		
1,1-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:25	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:25	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:25	156-60-5		
1,2-Dichloropropane	ND	ug/L	0.50	1		06/03/23 00:25	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:25	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:25	10061-02-6		
Ethylbenzene	ND	ug/L	0.50	1		06/03/23 00:25	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/03/23 00:25	591-78-6		
Methylene Chloride	ND	ug/L	0.50	1		06/03/23 00:25	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/03/23 00:25	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/23 00:25	1634-04-4		
Styrene	ND	ug/L	0.50	1		06/03/23 00:25	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/03/23 00:25	79-34-5		
Tetrachloroethene	ND	ug/L	0.50	1		06/03/23 00:25	127-18-4		
Toluene	ND	ug/L	0.50	1		06/03/23 00:25	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:25	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:25	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		06/03/23 00:25	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/23 00:25	75-69-4		
Vinyl acetate	ND	ug/L	20.0	1		06/03/23 00:25	108-05-4		
Vinyl chloride	ND	ug/L	0.50	1		06/03/23 00:25	75-01-4		
m&p-Xylene	ND	ug/L	0.50	1		06/03/23 00:25	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		06/03/23 00:25	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120	1		06/03/23 00:25	460-00-4		
Toluene-d8 (S)	101	%	80-120	1		06/03/23 00:25	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	115	%	80-120	1		06/03/23 00:25	2199-69-1		
Preservation pH	1.0		0.10	1		06/03/23 00:25			

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: DUP-01		Lab ID: 60429879004		Collected: 05/31/23 11:00		Received: 05/31/23 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		06/03/23 00:41	67-64-1	c2	
Benzene	ND	ug/L	0.50	1		06/03/23 00:41	71-43-2		
Bromodichloromethane	ND	ug/L	0.50	1		06/03/23 00:41	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/03/23 00:41	75-25-2		
Bromomethane	ND	ug/L	0.50	1		06/03/23 00:41	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/03/23 00:41	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/03/23 00:41	75-15-0		
Carbon tetrachloride	ND	ug/L	0.50	1		06/03/23 00:41	56-23-5		
Chlorobenzene	ND	ug/L	0.50	1		06/03/23 00:41	108-90-7		
Chloroethane	ND	ug/L	0.50	1		06/13/23 17:22	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/03/23 00:41	110-75-8		
Chloroform	ND	ug/L	0.50	1		06/03/23 00:41	67-66-3		
Chloromethane	ND	ug/L	0.50	1		06/03/23 00:41	74-87-3		
Dibromochloromethane	ND	ug/L	0.50	1		06/03/23 00:41	124-48-1		
1,1-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:41	75-34-3		
1,2-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:41	107-06-2		
1,1-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:41	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:41	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:41	156-60-5		
1,2-Dichloropropane	ND	ug/L	0.50	1		06/03/23 00:41	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:41	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:41	10061-02-6		
Ethylbenzene	ND	ug/L	0.50	1		06/03/23 00:41	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/03/23 00:41	591-78-6		
Methylene Chloride	ND	ug/L	0.50	1		06/03/23 00:41	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/03/23 00:41	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/23 00:41	1634-04-4		
Styrene	ND	ug/L	0.50	1		06/03/23 00:41	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/03/23 00:41	79-34-5		
Tetrachloroethene	ND	ug/L	0.50	1		06/03/23 00:41	127-18-4		
Toluene	ND	ug/L	0.50	1		06/03/23 00:41	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:41	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:41	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		06/03/23 00:41	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/23 00:41	75-69-4		
Vinyl acetate	ND	ug/L	20.0	1		06/03/23 00:41	108-05-4		
Vinyl chloride	ND	ug/L	0.50	1		06/03/23 00:41	75-01-4		
m&p-Xylene	ND	ug/L	0.50	1		06/03/23 00:41	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		06/03/23 00:41	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	116	%	80-120	1		06/03/23 00:41	460-00-4		
Toluene-d8 (S)	101	%	80-120	1		06/03/23 00:41	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	113	%	80-120	1		06/03/23 00:41	2199-69-1		
Preservation pH	1.0		0.10	1		06/03/23 00:41			

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: MW-3A		Lab ID: 60429879005		Collected: 05/31/23 10:30		Received: 05/31/23 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		06/03/23 00:57	67-64-1	c2	
Benzene	ND	ug/L	0.50	1		06/03/23 00:57	71-43-2		
Bromodichloromethane	ND	ug/L	0.50	1		06/03/23 00:57	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/03/23 00:57	75-25-2		
Bromomethane	ND	ug/L	0.50	1		06/03/23 00:57	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/03/23 00:57	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/03/23 00:57	75-15-0		
Carbon tetrachloride	ND	ug/L	0.50	1		06/03/23 00:57	56-23-5		
Chlorobenzene	ND	ug/L	0.50	1		06/03/23 00:57	108-90-7		
Chloroethane	ND	ug/L	0.50	1		06/13/23 17:38	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/03/23 00:57	110-75-8		
Chloroform	ND	ug/L	0.50	1		06/03/23 00:57	67-66-3		
Chloromethane	ND	ug/L	0.50	1		06/03/23 00:57	74-87-3		
Dibromochloromethane	ND	ug/L	0.50	1		06/03/23 00:57	124-48-1		
1,1-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:57	75-34-3		
1,2-Dichloroethane	ND	ug/L	0.50	1		06/03/23 00:57	107-06-2		
1,1-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:57	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:57	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 00:57	156-60-5		
1,2-Dichloropropane	ND	ug/L	0.50	1		06/03/23 00:57	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:57	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 00:57	10061-02-6		
Ethylbenzene	ND	ug/L	0.50	1		06/03/23 00:57	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/03/23 00:57	591-78-6		
Methylene Chloride	ND	ug/L	0.50	1		06/03/23 00:57	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/03/23 00:57	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/23 00:57	1634-04-4		
Styrene	ND	ug/L	0.50	1		06/03/23 00:57	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/03/23 00:57	79-34-5		
Tetrachloroethene	ND	ug/L	0.50	1		06/03/23 00:57	127-18-4		
Toluene	ND	ug/L	0.50	1		06/03/23 00:57	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:57	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/03/23 00:57	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		06/03/23 00:57	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/23 00:57	75-69-4		
Vinyl acetate	ND	ug/L	20.0	1		06/03/23 00:57	108-05-4		
Vinyl chloride	ND	ug/L	0.50	1		06/03/23 00:57	75-01-4		
m&p-Xylene	ND	ug/L	0.50	1		06/03/23 00:57	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		06/03/23 00:57	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	108	%	80-120	1		06/03/23 00:57	460-00-4	S0	
Toluene-d8 (S)	123	%	80-120	1		06/03/23 00:57	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	105	%	80-120	1		06/03/23 00:57	2199-69-1		
Preservation pH	1.0		0.10	1		06/03/23 00:57			

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ANALYTICAL RESULTS

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Sample: TRIP BLANK		Lab ID: 60429879006		Collected: 05/31/23 08:00		Received: 05/31/23 16:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	ND	ug/L	10.0	1		06/03/23 01:13	67-64-1	c2	
Benzene	ND	ug/L	0.50	1		06/03/23 01:13	71-43-2		
Bromodichloromethane	ND	ug/L	0.50	1		06/03/23 01:13	75-27-4		
Bromoform	ND	ug/L	1.0	1		06/03/23 01:13	75-25-2		
Bromomethane	ND	ug/L	0.50	1		06/03/23 01:13	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		06/03/23 01:13	78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		06/03/23 01:13	75-15-0		
Carbon tetrachloride	ND	ug/L	0.50	1		06/03/23 01:13	56-23-5		
Chlorobenzene	ND	ug/L	0.50	1		06/03/23 01:13	108-90-7		
Chloroethane	ND	ug/L	0.50	1		06/13/23 17:54	75-00-3		
2-Chloroethylvinyl ether	ND	ug/L	5.0	1		06/03/23 01:13	110-75-8		
Chloroform	ND	ug/L	0.50	1		06/03/23 01:13	67-66-3		
Chloromethane	ND	ug/L	0.50	1		06/03/23 01:13	74-87-3		
Dibromochloromethane	ND	ug/L	0.50	1		06/03/23 01:13	124-48-1		
1,1-Dichloroethane	ND	ug/L	0.50	1		06/03/23 01:13	75-34-3		
1,2-Dichloroethane	ND	ug/L	0.50	1		06/03/23 01:13	107-06-2		
1,1-Dichloroethene	ND	ug/L	0.50	1		06/03/23 01:13	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 01:13	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		06/03/23 01:13	156-60-5		
1,2-Dichloropropane	ND	ug/L	0.50	1		06/03/23 01:13	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 01:13	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		06/03/23 01:13	10061-02-6		
Ethylbenzene	ND	ug/L	0.50	1		06/03/23 01:13	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/03/23 01:13	591-78-6		
Methylene Chloride	ND	ug/L	0.50	1		06/03/23 01:13	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/03/23 01:13	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/03/23 01:13	1634-04-4		
Styrene	ND	ug/L	0.50	1		06/03/23 01:13	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		06/03/23 01:13	79-34-5		
Tetrachloroethene	ND	ug/L	0.50	1		06/03/23 01:13	127-18-4		
Toluene	ND	ug/L	0.50	1		06/03/23 01:13	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	0.50	1		06/03/23 01:13	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	0.50	1		06/03/23 01:13	79-00-5		
Trichloroethene	ND	ug/L	0.50	1		06/03/23 01:13	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		06/03/23 01:13	75-69-4		
Vinyl acetate	ND	ug/L	20.0	1		06/03/23 01:13	108-05-4		
Vinyl chloride	ND	ug/L	0.50	1		06/03/23 01:13	75-01-4		
m&p-Xylene	ND	ug/L	0.50	1		06/03/23 01:13	179601-23-1		
o-Xylene	ND	ug/L	0.50	1		06/03/23 01:13	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	106	%	80-120	1		06/03/23 01:13	460-00-4		
Toluene-d8 (S)	99	%	80-120	1		06/03/23 01:13	2037-26-5		
1,2-Dichlorobenzene-d4 (S)	105	%	80-120	1		06/03/23 01:13	2199-69-1		
Preservation pH	1.0		0.10	1		06/03/23 01:13			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

QC Batch:	850548	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60429879001, 60429879002, 60429879003, 60429879004, 60429879005, 60429879006

METHOD BLANK: 3368947

Matrix: Water

Associated Lab Samples: 60429879001, 60429879002, 60429879003, 60429879004, 60429879005, 60429879006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	0.50	06/02/23 22:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	06/02/23 22:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	06/02/23 22:49	
1,1-Dichloroethane	ug/L	ND	0.50	06/02/23 22:49	
1,1-Dichloroethene	ug/L	ND	0.50	06/02/23 22:49	
1,2-Dichloroethane	ug/L	ND	0.50	06/02/23 22:49	
1,2-Dichloropropane	ug/L	ND	0.50	06/02/23 22:49	
2-Butanone (MEK)	ug/L	ND	10.0	06/02/23 22:49	
2-Chloroethylvinyl ether	ug/L	ND	5.0	06/02/23 22:49	
2-Hexanone	ug/L	ND	10.0	06/02/23 22:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/02/23 22:49	
Acetone	ug/L	ND	10.0	06/02/23 22:49	
Benzene	ug/L	ND	0.50	06/02/23 22:49	
Bromodichloromethane	ug/L	ND	0.50	06/02/23 22:49	
Bromoform	ug/L	ND	1.0	06/02/23 22:49	
Bromomethane	ug/L	ND	0.50	06/02/23 22:49	
Carbon disulfide	ug/L	ND	1.0	06/02/23 22:49	
Carbon tetrachloride	ug/L	ND	0.50	06/02/23 22:49	
Chlorobenzene	ug/L	ND	0.50	06/02/23 22:49	
Chloroform	ug/L	ND	0.50	06/02/23 22:49	
Chloromethane	ug/L	ND	0.50	06/02/23 22:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	06/02/23 22:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	06/02/23 22:49	
Dibromochloromethane	ug/L	ND	0.50	06/02/23 22:49	
Ethylbenzene	ug/L	ND	0.50	06/02/23 22:49	
m&p-Xylene	ug/L	ND	0.50	06/02/23 22:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/02/23 22:49	
Methylene Chloride	ug/L	ND	0.50	06/02/23 22:49	
o-Xylene	ug/L	ND	0.50	06/02/23 22:49	
Styrene	ug/L	ND	0.50	06/02/23 22:49	
Tetrachloroethene	ug/L	ND	0.50	06/02/23 22:49	
Toluene	ug/L	ND	0.50	06/02/23 22:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	06/02/23 22:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	06/02/23 22:49	
Trichloroethene	ug/L	ND	0.50	06/02/23 22:49	
Trichlorofluoromethane	ug/L	ND	1.0	06/02/23 22:49	
Vinyl acetate	ug/L	ND	20.0	06/02/23 22:49	
Vinyl chloride	ug/L	ND	0.50	06/02/23 22:49	
1,2-Dichlorobenzene-d4 (S)	%	101	80-120	06/02/23 22:49	
4-Bromofluorobenzene (S)	%	102	80-120	06/02/23 22:49	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

METHOD BLANK: 3368947

Matrix: Water

Associated Lab Samples: 60429879001, 60429879002, 60429879003, 60429879004, 60429879005, 60429879006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	100	80-120	06/02/23 22:49	

LABORATORY CONTROL SAMPLE: 3368948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	75-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	80-120	
1,1,2-Trichloroethane	ug/L	20	20.4	102	80-120	
1,1-Dichloroethane	ug/L	20	21.1	105	75-120	
1,1-Dichloroethene	ug/L	20	20.3	101	75-120	
1,2-Dichloroethane	ug/L	20	20.3	102	80-120	
1,2-Dichloropropane	ug/L	20	20.2	101	80-120	
2-Butanone (MEK)	ug/L	100	97.8	98	50-155	
2-Chloroethylvinyl ether	ug/L	100	50.2	50	25-160	
2-Hexanone	ug/L	100	94.2	94	55-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.9	100	70-130	
Acetone	ug/L	100	89.8	90	35-160	
Benzene	ug/L	20	20.4	102	80-120	
Bromodichloromethane	ug/L	20	21.0	105	80-120	
Bromoform	ug/L	20	22.0	110	60-130	
Bromomethane	ug/L	20	25.2	126	50-140	
Carbon disulfide	ug/L	20	20.6	103	75-125	
Carbon tetrachloride	ug/L	20	21.3	107	70-130	
Chlorobenzene	ug/L	20	20.6	103	80-120	
Chloroform	ug/L	20	20.9	105	75-120	
Chloromethane	ug/L	20	23.6	118	45-145	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.7	99	75-125	
Dibromochloromethane	ug/L	20	20.5	103	75-125	
Ethylbenzene	ug/L	20	19.8	99	80-120	
m&p-Xylene	ug/L	40	39.1	98	80-120	
Methyl-tert-butyl ether	ug/L	20	19.3	97	75-125	
Methylene Chloride	ug/L	20	21.3	107	70-140	
o-Xylene	ug/L	20	19.6	98	80-120	
Styrene	ug/L	20	23.3	116	80-120	
Tetrachloroethene	ug/L	20	21.0	105	80-125	
Toluene	ug/L	20	19.6	98	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.9	99	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	75-125	
Trichloroethene	ug/L	20	20.6	103	80-125	
Trichlorofluoromethane	ug/L	20	22.5	112	75-125	
Vinyl acetate	ug/L	20	19.2J	96	50-150	
Vinyl chloride	ug/L	20	22.4	112	65-140	
1,2-Dichlorobenzene-d4 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

LABORATORY CONTROL SAMPLE: 3368948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3369427 3369428

Parameter	Units	60430084001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1000	1000	1320	1290	132	129	80-120	2	15	M1
1,1,2-Trichloroethane	ug/L	ND	1000	1000	1150	1110	115	111	80-120	3	20	
1,1-Dichloroethane	ug/L	ND	1000	1000	1090	1080	109	108	75-120	1	15	
1,1-Dichloroethene	ug/L	ND	1000	1000	1060	1100	106	110	75-120	4	25	
1,2-Dichloroethane	ug/L	ND	1000	1000	1170	1090	117	109	80-120	8	25	
1,2-Dichloropropane	ug/L	ND	1000	1000	1070	1030	107	103	80-120	4	20	
2-Butanone (MEK)	ug/L	ND	5000	5000	6040	5900	121	118	50-155	2	25	
2-Chloroethylvinyl ether	ug/L	ND	5000	5000	333	395	7	8	25-160		25	M1
2-Hexanone	ug/L	ND	5000	5000	5190	4940	104	99	55-145	5	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5000	5000	6190	6240	124	125	70-130	1	20	
Acetone	ug/L	ND	5000	5000	3380	4210	68	84	35-160	22	25	
Benzene	ug/L	ND	1000	1000	1080	1020	108	102	80-120	5	25	
Bromodichloromethane	ug/L	ND	1000	1000	1100	1060	110	106	80-120	4	15	
Bromoform	ug/L	ND	1000	1000	1220	1290	122	129	60-130	6	20	
Bromomethane	ug/L	ND	1000	1000	1270	1280	127	128	50-140	1	45	
Carbon disulfide	ug/L	ND	1000	1000	1100	1140	109	112	75-125	3	25	
Carbon tetrachloride	ug/L	ND	1000	1000	1110	1060	111	106	70-130	5	20	
Chlorobenzene	ug/L	ND	1000	1000	1040	1000	104	100	80-120	4	20	
Chloroform	ug/L	1010	1000	1000	2210	2100	119	109	75-120	5	20	
Chloromethane	ug/L	ND	1000	1000	1220	1300	120	128	45-145	6	30	
cis-1,2-Dichloroethene	ug/L	ND	1000	1000	1130	1090	112	108	80-120	4	20	
cis-1,3-Dichloropropene	ug/L	ND	1000	1000	1020	1010	102	101	75-125	1	20	
Dibromochloromethane	ug/L	ND	1000	1000	1100	1030	110	103	75-125	6	20	
Ethylbenzene	ug/L	ND	1000	1000	1010	969	100	96	80-120	4	25	
m&p-Xylene	ug/L	ND	2000	2000	1970	2080	97	102	80-120	5	30	
Methyl-tert-butyl ether	ug/L	ND	1000	1000	1100	1070	110	107	75-125	3	30	
Methylene Chloride	ug/L	ND	1000	1000	1100	1150	107	112	70-140	4	25	
o-Xylene	ug/L	55.7	1000	1000	1010	1110	95	105	80-120	9	30	
Styrene	ug/L	ND	1000	1000	1130	1290	113	129	80-120	13	30	M1
Tetrachloroethene	ug/L	3130	1000	1000	4190	3980	105	84	80-125	5	25	
Toluene	ug/L	ND	1000	1000	1040	941	104	94	80-120	10	25	
trans-1,2-Dichloroethene	ug/L	ND	1000	1000	1140	1040	114	104	80-120	9	20	
trans-1,3-Dichloropropene	ug/L	ND	1000	1000	1040	957	104	96	75-125	9	15	
Trichloroethene	ug/L	398	1000	1000	1510	1480	111	108	80-125	2	20	
Trichlorofluoromethane	ug/L	ND	1000	1000	1090	1180	109	118	75-125	8	20	
Vinyl acetate	ug/L	ND	1000	1000	1440	1390	144	139	50-150	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3369427 3369428												
Parameter	Units	60430084001	MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.								
Vinyl chloride	ug/L	ND	1000	1000	1280	1280	128	128	65-140	0	25	
1,2-Dichlorobenzene-d4 (S)	%						103	101	80-120			
4-Bromofluorobenzene (S)	%						107	104	80-120			
Toluene-d8 (S)	%						98	95	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

QC Batch:	852101	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60429879001, 60429879002, 60429879003, 60429879004, 60429879005, 60429879006

METHOD BLANK: 3374630 Matrix: Water

Associated Lab Samples: 60429879001, 60429879002, 60429879003, 60429879004, 60429879005, 60429879006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroethane	ug/L	ND	0.50	06/13/23 14:12	
1,2-Dichlorobenzene-d4 (S)	%	102	80-120	06/13/23 14:12	
4-Bromofluorobenzene (S)	%	102	80-120	06/13/23 14:12	
Toluene-d8 (S)	%	100	80-120	06/13/23 14:12	

LABORATORY CONTROL SAMPLE: 3374631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	18.2	91	70-130	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MARION COUNTY LANDFILL
Pace Project No.: 60429879

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

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.
c2	Acid preservation may not be appropriate for the analysis of 2-Chloroethylvinyl ether.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MARION COUNTY LANDFILL

Pace Project No.: 60429879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60429879001	MW-2A	EPA 5030B/8260	850548		
60429879001	MW-2A	EPA 5030B/8260	852101		
60429879002	MW-5A	EPA 5030B/8260	850548		
60429879002	MW-5A	EPA 5030B/8260	852101		
60429879003	MW-1A	EPA 5030B/8260	850548		
60429879003	MW-1A	EPA 5030B/8260	852101		
60429879004	DUP-01	EPA 5030B/8260	850548		
60429879004	DUP-01	EPA 5030B/8260	852101		
60429879005	MW-3A	EPA 5030B/8260	850548		
60429879005	MW-3A	EPA 5030B/8260	852101		
60429879006	TRIP BLANK	EPA 5030B/8260	850548		
60429879006	TRIP BLANK	EPA 5030B/8260	852101		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

WO# : 60429879



60429879

Client Name: CSICourier: 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: 7-312 Type of Ice: Wet Blue NoneCooler Temperature (°C): As-read 2.9 Corr. Factor 0.0 Corrected 2.9Date and initials of person SPK
examining contents: 5-31-23

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	
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? <u>✓</u> Matrix: <u>wt</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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 RECORD


Pace Order Number:

PLEASE NOTE THE ATTACHED Pace SAMPLE ACCEPTANCE POLICY

Client/Reporting Information						Invoice Information				PARAMETERS/CONTAINER TYPE								COMMENTS					
Company Name:		Company Name:																					
Marion County		GSI																					
Address:		Address:																					
City:		State:		Zip:		City:		State:		Zip:													
Contact:		Contact:																					
E-mail:		E-mail:																					
Phone Number:		Fax Number:				Phone Number:				Fax Number:													
Sample Name (Printed)		Project Name:		Sampler's Name (Signature)		Purchase Order Number:																	
File Number:		Marion County Landfill						Number of Preserved Bottles															
								C-Composite		Total Containers		HCl		NaOH		HNO ₃		H ₂ SO ₄		NONE			
MW-2A		GW		R		5-31-23 0938		G 3		3		X											
MW-5A		GW		R		1004		G 3		3		X											
MW-1A		GW		R		1017		G 3		3		X											
DUP-01		GW		R		1100		G 3		3		X											
MW-3A		GW		R		1030		G 3		3		X											
TRIP BLANK		GW		R		0800		G 3		3		X											

Pace's Standard Terms and Conditions will apply to all samples received unless a separate contractual agreement has been made.

11: CCOC Marion County Marion, S/26/2023

	Document Name: Internal Shipping Manifest	Document Revised: July 9, 2018 Page 1
	Document No.:	Issuing Authorities: Pace Lenxa Quality Office

Internal Shipping Manifest

SA = Pace - Salina: 528 N 9th St, Salina, KS 67401

LEN = Pace -Lenexa: 9608 Loiret Blvd - Lenexa, KS 66219

FRN = Pace -SE Kansas: 808 W Mckay St, Frontenac, KS 66763

File ID	Shipping Laboratory Location Code	Received Laboratory Location Code		
	SA	LEN		
Cooler ID	Packaged on Ice (Y/N)	Received Cooler Temperature		
		IR Gun ID:		
		Cooler Temp:	Received on Ice	Samples Intact
<i>SALINA 14</i>	<i>445</i> ↓	<i>1.1</i>	<i>Y</i>	<i>Y</i>
<i>15</i>		<i>1.3</i>	↓	↓
<i>1</i>		<i>1.0</i>	↓	↓
<i>2</i>		<i>0.9</i>	↓	↓

	Pace Location	Date	Time
Signature Relinquished	<i>[Signature]</i>	<i>6-1-23</i>	<i>1640</i>
Signature Received	<i>[Signature]</i>	<i>6-2-23</i>	<i>0520</i>
Signature Relinquished			
Signature Received			
Signature Relinquished			
Signature Received			

Note: The last person to receive the coolers is the person who takes the cooler temperatures.