From:	Timothy Bannister
To:	IDEM OLQ Solid Waste Permits Submittals; IDEM Permits Geology Electronic Data File
Cc:	Wren, Kira; ELLIOTT, MIKE; Tudor, Chad; Dan Figac; Ellen O"Neil; Steve Reuter
Subject:	Wabash Valley LF - FP#85-01; GW Report for 2024-02&05 Sampling Events
Date:	Friday, July 5, 2024 9:54:04 AM
Attachments:	Outlook-Inline ima.png WVLF FP# 85-01 GW Rprt for 2024-02&05.pdf WV_IDEM_2024-02&05.txt

On behalf of Wabash Valley Landfill, attached are the subject report and EDF for geologydata. If you have any questions, don't hesitate to call or email.

Thank you,

Timothy A. Bannister, LPG
Senior Project Manager

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5154 East 65th Street
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316 Spring Valley Road, Wabash, Indiana 46992
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July 5, 2024

Kira Wren, Permit Manager
Indiana Department of Environmental Management
Office of Land Quality
Solid Waste Permits
IGCN 1101
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

RE: Ground Water Monitoring Report for February & May 2024 Sampling Events
Republic Services of Indiana, Limited Partnership, dba Wabash Valley Landfill
Wabash County; FP#85-01

Dear Ms. Wren,

The report for ground water monitoring conducted in February and May 2024 is attached.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information.

If you have any questions or need additional information, please call Tim Bannister, SESCO Group, at 317-372-4640.

Sincerely,

Chad Tudor
Environmental Manager

Enc.

cc: Wabash Valley Landfill Site Manager (for site record)
Bethene Gill
Michael Elliott, IDEM (via email)

SESCO group

Environmental Solutions

July 5, 2024

Mr. Chad Tudor
Republic Services, Inc.
832 Langsdale Avenue
Indianapolis, Indiana 46202

RE: Groundwater Quality Monitoring Report for First Semi-Annual Event 2024 & May 2024 Verification Resampling Event
Republic Services of Indiana, Limited Partnership, dba Wabash Valley Landfill
Wabash County, FP#85-01

Dear Mr. Tudor,

In accordance with 329 IAC 10-21-7 and 329 IAC 10-21-10, a semi-annual groundwater monitoring event was conducted at the above referenced facility on February 12-15, 2024. A verification resampling event was subsequently conducted on May 13 for several wells and parameters. A report for these events is attached.

A copy of the laboratory and field data from the monitoring event and a PDF of the monitoring report are being transmitted electronically to IDEM and to the IDEM permit manager, as provided in the facility's solid waste permit.

If you have any questions or comments regarding this report, please call me at (317) 372-4640.

Sincerely,

Timothy A. Bannister, LPG
Senior Project Manager

Enclosure

Reports\WVLF2024-02 GW Report

SEMI-ANNUAL GROUNDWATER SAMPLING REPORT: FEBRUARY 2024 SEMI-ANNUAL SAMPLING MAY 2024 RESAMPLE EVENT

Republic Services of Indiana, Limited Partnership
dba WABASH VALLEY LANDFILL
WABASH COUNTY, IN
FP#85-01

Prepared On Behalf Of:

WABASH VALLEY LANDFILL
316 Spring Valley Road
Wabash, In 46992

July 2024

Prepared By:

SESCO Group
5154 E 65th Street
Indianapolis, IN 46220
Telephone (317) 347-9590
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1. INTRODUCTION

This Ground Water Quality Monitoring Report provides information from semi-annual sampling conducted at Wabash Valley Landfill on February 12-15, 2024. Sampling was conducted by SESCO Group, Indianapolis, Indiana. Laboratory analyses were conducted by Pace Analytical Services, Inc. A resampling event was conducted May 13, 2024 for chloride at MW-3S and MW-16.

In compliance with 329 IAC 10-21-1(s) and 329 IAC 10-21-6(e), this report includes:

- Laboratory reports with a chain of custody (**Appendix 1**);
- Field data sheets (**Appendix 2**);
- Ground water contour mapping including static water level elevations; and
- A statistical evaluation.

A copy of the laboratory and field data from the monitoring event and a PDF of the monitoring report are being transmitted electronically to IDEM and to the IDEM permit manager, as provided in the facility's solid waste permit.

2. MONITORING INFORMATION, LOCATIONS, AND ANALYSES

Monitoring was conducted in accordance with the facility's Sampling and Analysis Plan (SAP) unless otherwise noted in this report. Information on purging and sampling is provided on the Field Data Sheets in **Appendix 2**.

A listing of monitoring locations and whether water levels and chemical analyses were conducted for the February event is provided in **Table 1**. Information regarding the grouping of monitoring wells at the site and the associated parameter groupings is provided in **Table 2**. In addition to monitoring wells, analyses were conducted for witness zone samples and a water supply well. Several of the witness zones were dry.

Sample identification numbers in the laboratory results generally correspond to well identification numbers. Exceptions, as shown below, are the duplicate samples.

Well ID	Lab Sample ID	Sample Date
MW-26SAL (duplicate)	MW-126SAL	02/2024
MW-9SRP (duplicate)	MW-31SRP	02/2024
MW-19S (duplicate)	MW-119S	02/2024

As proposed in a letter to IDEM dated August 2, 2018, the February 2024 sampling included the residential water supply well south of the railroad tracks. The water supply well was sampled for Tables 1A and 1B of 329 IAC 10-21 plus total arsenic and fluoride.

2.1 Assessment Detections

Assessment wells are sampled for an expanded Assessment list (in accordance with 329 IAC 10-21-10(e)) on different triennial schedules as listed in **Table 2**. Expanded assessment sampling was conducted for MW-18, MW-24SAL, MW-9SRP, MW-111SAL (bg well), SP-1(bg well), and SP-2 (bg well) in February 2024 and will be subject to expanded sampling again in February 2027. Detected parameters from the current event are shown in **Table 8**. Detected parameters from expanded sampling events have been added to the routine sampling. Expanded sampling was conducted for MW-2R, MW-3D, MW-3DR, MW-16, MW-19D, MW-19S, MW-20, and MW-21 in February 2023. Dissolved Zinc, as noted in **Table 8**, was not part of the routine assessment monitoring. This will be added to the routine sampling. A limit for dissolved zinc is calculated in **Appendix 5** of this report.

In the future, Republic may request that certain aforementioned parameters that are not detected for two consecutive sampling events be removed from the routine assessment list.

3. WATER LEVEL INFORMATION AND MAPPING

Figures 1 and **2** present the February 2024 potentiometric-surface mapping for the stratified alluvial sediment (SAS) and carbonate bedrock ground water zones at the site, respectively. Water level monitoring information is also provided on **Figures 1 and 2**, which includes information on well casing and ground surface elevations. Ground water flow directions were generally to the east and south toward the Wabash River. Water level information is also provided on the field sheets in **Appendix 2**.

As required by the facility's solid waste permit, the water level for Sediment Pond 1 is evaluated during the semi-annual sampling event. **Figure 3** presents a hydrograph of the pond water elevation and groundwater elevations of nearby wells since 2009. The pond water elevation follows the same pattern of increases and decreases as nearby shallow monitoring wells MW-2R and MW-16 and is very close to the ground water elevation measured at MW-17. These data indicate a degree of influence between the water in the pond and the shallow ground water in the vicinity.

4. QUALITY CONTROL SAMPLES

Quality control samples for the August event included three field duplicates (see **Section 2** for further information on the duplicates), one equipment blank (for dissolved metals), two trip blanks (for volatile organic compounds [VOCs]), and a field blank for constituents not included in the other blanks. There were two detections in the blanks: a low level (0.003 mg/L) concentration of dissolved copper in the equipment blank and a low level (17 mg/L) concentration of total dissolved solids in the field blank.

Relative percentage differences (RPDs) for the duplicate samples of the semi-annual event are presented in **Table 3**. The RPD was calculated by:

$$RPD = \frac{|A - B|}{(A + B)} x200$$

Where:

A = concentration of the original sample and
B = concentration of the duplicate sample.

RPDs were generally low. Values over 20% were observed for dissolved copper and fluoride at MW-19S, chloride and sulfate at MW-26SAL, total arsenic, total chromium, total lead, total nickel, total solids, and total zinc at MW-9SRP. The higher values may be due to sediment in the samples, analytical precision at low concentrations, or high chemical gradients in the groundwater such that the regular and duplicate sample water are of different quality.

5. DATA EVALUATION

Evaluations of the monitoring data from both the East and West Area wells were conducted following the procedures outlined in 329 IAC 10, but with different statistical approaches for the two areas, as described in more detail in **Sections 5.1 and 5.2**, respectively. A revised Statistical Evaluation Plan (StEP) dated April 25, 2019, was approved by an IDEM letter dated May 2, 2019.

The East Area Well results are compared to inter-well limits, based on submittals to IDEM dated June 25, 2009, December 17, 2009, December 15, 2015, and April 19, 2021, and letters from IDEM dated August 10, 2009, and June 21,2021. Additional limits are calculated in **Appendix 5** of this report.

Data from the West Area monitoring wells are evaluated with trend tests as described in the StEP. The results for the West Area wells are also compared to site-specific Ground Water Protection Standards (GWPS).

5.1 East Area Monitoring Network

As noted above, results from East Area Wells are compared to inter-well prediction limits that were calculated and submitted to IDEM. The inter-well prediction limits are based in part on data from former wells MW-22AL, MW-22BD, MW-23DAL and MW-23SAL, which were located *downgradient* of Spring Valley Landfill, and *upgradient* of Wabash Valley Landfill. These wells were abandoned to allow for landfill construction.

As noted in **Section 2.1** of this report, assessment detections required the calculation of Ground Water Protection Standards (GWPS's). It was therefore necessary to calculate an inter-well limit for one additional parameter (dissolved zinc). These limits were calculated in the same manner as the previous limits. Statistical limits were calculated based on data from the wells that were previously between SVL and Wabash Valley Landfill and also all of the upgradient wells. As an initial step in the calculation of the statistical limits, an outlier analysis was run on the potential background data using the Sanitas™ program. No outliers were identified. Prediction limits were calculated from the background data using the Sanitas™ program. Selectable options in the program were EPA protocol, ladder of powers without best stat, modified alpha of 0.01, and Cohen's Adjustment. As with the previous calculations, background data prior to June 2, 1998, was not included in the background in order to improve the alpha value and avoid problems with high detection limits in earlier data. **Appendix 5** includes a listing of the background data for the calculations, outlier output, and prediction limits output. **Table 4** in this report includes the calculated inter-well prediction limit and GWPS information for the assessment wells (MW-9SRP and MW-24SAL).

There were no VOC detections in the East Area wells for the February 2024 event. Total barium results at MW-9SRP and MW-24SAL in February 2024 were above the prediction limits, but not above the GWPS (the maximum contaminant level [MCL] in this case). There were no verified exceedances of the GWPS for the assessment wells in the East Area.

5.2 West Area Monitoring Network

The West Area is in corrective action because groundwater samples exceed the GWPSs for a number of chemical parameters. Therefore, several wells in the West Area continue in assessment monitoring and the results are routinely compared to GWPSs to evaluate the effectiveness of the corrective action. GWPSs for the West Area were developed in the StEP submitted April 25, 2019.

VOCs, primarily BTEX-related compounds, have been detected in previous events in the West Area monitoring wells. The only VOCs detected for February 2024 were chlorobenzene at MW-3D, MW-3DR, and MW-3S and benzene at MW-3S. The time series graphs for the VOCs in **Figures 4** through **8** show no overall increasing trends. The February 2024 results for VOC's are below the MCLs.

Table 6 provides a comparison of the February 2024 West Area results to the GWPS (for non-secondary parameters) and to twice the GWPS (for secondary parameters). Exceedances are shaded in green. Exceedances for non-secondary parameters were limited to dissolved and total arsenic at several wells.

5.2.1 West Area Detection/Assessment Well Trend Tests

Mann-Kendall trend tests for inorganic and select organic compounds for data since 2009 in the West Area Detection/Assessment Wells were conducted in accordance with the StEP. A summary table and charts with significant trends for the statistical output for Mann-Kendall/Sen's Slope is provided in **Appendix 3**. The trend testing over the recent time frame (since 2009) in **Appendix 3** is provided to evaluate the effectiveness of corrective action at the site.

The significance of the trends is evaluated at a 95% confidence level in the summary table. In order to minimize the effect of changing reporting limits, a setting in Sanitas was used to replace reporting limits with a median reporting limit for trend tests. Positive and negative slopes in the summary table indicate positive and negative trends, respectively. The trend tests indicate both positive and negative trends for various parameters and monitoring wells.

5.2.2 West Area Corrective Action Well Trend Tests

Mann-Kendall/Sens Slope trend tests for inorganic compounds since 2009 were conducted in accordance with the StEP for monitoring wells south of the railroad tracks. There were no VOCs detected. Statistical output for Mann-Kendall/Sen's Slope is provided in **Appendix 4.**

5.2.3 Corrective Action Progress Report

The solid waste permit for the Wabash Valley Landfill requires that a corrective action progress report be submitted on an annual basis. The most recent update on the status of the corrective action was provided in the Groundwater Monitoring Report for the August 2023 sampling event. Another update through February 2024 is provided below.

Improvements were made to the extraction system by replacement of the two westernmost wells, as described in a report submitted to IDEM dated July 26, 2019. The improvements became operational near the end of June 2019.

The groundwater extraction system has continued normal operation through February 2024. The site is currently assessing whether all the pumps are operating correctly and has recently had one of the pumps refurbished. Monthly extraction volumes since the last semi-annual sampling event through February are provided below:

Month	Volume of Groundwater Extracted (gallons)
September 2023	12,442
October 2023	28,706
November 2023	3,098
December 2023	15,324
January 2024	90,769
February 2024	4,742

Groundwater extracted from the corrective action wells is discharged into the wetlands treatment system. The outfall for the treatment wetlands, Outfall 005, is monitored monthly and reported per NPDES permit requirements. There were no exceedances of NPDES standards in 2018 through February 2024.

Table 7 summarizes GWPS exceedances and significant trends for the West Area. The only well/parameter combinations with a GWPS exceedance (or twice the GWPS for secondary parameters) *and* a positive significant recent trend were ammonia at MW-3D, MW-3DR and MW-3S, dissolved arsenic at MW-18, MW-19S, MW-20, MW-3DR, MW-3S, total arsenic at MW-3DR, chloride at MW-16 And MW-3S, dissolved iron at MW-3S, dissolved manganese at MW-16, and dissolved sodium at MW-16 and MW-3S. Most parameters show a downward trend. The May 2024 resampling event has chloride levels at MW-3S and MW-16 below the protection standard, 458 and 307 mg/L respectively.

The corrective action wells that show a positive trend are total arsenic at MW-19S, dissolved arsenic at MW-19S and MW-20, dissolved and total barium at MW-19D and MW-21, chloride at MW-21, dissolved iron at 19S and 19D, fluoride at MW-20, sulfate at MW-19S and MW-20, and sodium at MW-21. The barium and sulfate at the noted wells are below the drinking water standard. In addition to the groundwater extraction volumes tabulated above, a toe drain was installed on the south end of Unit I in June 2016 and was subsequently extended in Spring 2017. As noted above, the site replaced the two extraction wells on the west end of the groundwater extraction system in 2019.

5.3 Witness Zone Results

Witness zone samples are collected semi-annually in compliance with 329 IAC 10-20-19 and the facility's leak detection program. Witness zone locations are shown on **Figures 1** and **2**. Samples were obtained at witness zones WZ-3, WZ-5, and WZ-9, for the February 2024 sampling event. Pumping of the other witness zones did not produce liquid. There were no VOC detections at any of the witness zones for this sample period.

Table 5 lists the inorganic laboratory results for the witness zone samples for the February 2024 event. Also listed in **Table 5** are the flow rates for the witness zones based on totalizer readings. **Table 5** complies with IDEM's request that volumes also be reported as described in correspondence from May 2008. There were no exceedances of the Action Leakage Rates (ALRs).

Results for monitoring of the site witness zones for the semi-annual event are included in the attached laboratory reports. These results are included solely for informational purposes and not in response to a submittal requirement. The landfill reviews volumes of liquid from the leak detection sumps in accordance with its leak detection plan.

6. Residential Results

There were no exceedances of primary (health-based) Federal drinking water standards. VOCs were not detected.

TABLE 1: MONITORING LOCATION SUMMARY
Feb-24

Location	Water Level	Quality Analysis	Lab ID	Comments
EW-1N	X			Extraction Well
EW-2R	X			Extraction Well
EW-3	X			Extraction Well
EW-4	X			Extraction Well
EW-5	X			Extraction Well
MW-1	X			
MW-111SAL	X	X	MW-111SAL	
MW-113SALr	X			
MW-16	X	X	MW-16	
MW-17	X	X	MW-17	
MW-18	X	X	MW-18	
MW-19D	X	X	MW-19D	
MW-19S	X	X	MW-19S/MW-119S	Field Duplicate Taken
MW-20	X	X	MW-20	
MW-21	X	X	MW-21	
MW-24DAL	X	X	MW-24DAL	
MW-24SAL	X	X	MW-24SAL	
MW-25DAL	X	X	MW-25DAL	
MW-25SAL	X	X	MW-25SAL	
MW-26SAL	X	X	MW-26SAL/MW-126SAL	Field Duplicate Taken
MW-27SAL	X	X	MW-27SAL	
MW-2R	X	X	MW-2R	
MW-3D	X	X	MW-3D	
MW-3DR	X	X	MW-3DR	
MW-3S	X	X	MW-3S	
MW-9RP	X	X	MW-9RP	
MW-9SRP	X	X	MW-9SRP/MW-31SRP	Field Duplicate Taken
MW-A4	X	X	MW-A4	
P-1	X			Extraction Well Piezometer, Dry
P-2	X			Extraction Well Piezometer, Dry
P-3	X			Extraction Well Piezometer
PZ-102SAL	X			
PZ-103SAL	X			
PZ-111B	X			
PZ-112SAL	X			
PZ-115B	X			
PZ-116B	X			
PZ-116SAL	X			
PZ-118B	X			
PZ-119B	X			
PZ-120B	X			
PZ-121B	X			
Residential Well - Gill		X	Steve Gill Well	
Sed Pond 1 Gauge	X			
SP-1	X	X	SP-1	
SP-2	X	X	SP-2	
WZ-3		X	WZ-3	Small Reaction with HCl's
WZ-4				Dry, No Sample
WZ-5		X	WZ-5	
WZ-6				Dry, No Sample
WZ-7				Dry, No Sample
WZ-8				Dry, No Sample
WZ-9		X	WZ-9	
WZ-11B				Dry, No Sample

TABLE 2
WABASH VALLEY LANDFILL
First Semi-Annual Sampling Event - 2024
Monitoring Well and Parameter Groupings

Parameter Grouping	West Area		East Area		Witness Zones
	Detection Wells	**Assessment/Corrective Action Wells**	**Detection Wells**	**Assessment Wells**	
	Compliance: MW-3S	Background: SP-2 Compliance: MW-2R, MW-3D, MW-3DR, MW-16, MW-17, MW-18, MW-19S, MW-19D, MW-20, MW-21	MW-A4, MW-9RP, MW-24DAL, MW-25DAL, MW-25SAL, MW-26SAL, MW-27SAL, MW-111SAL, SP-1	MW-9SRP, MW-24SAL	WZ-3, WZ-4, WZ-5, WZ-6, WZ-7, WZ-8, WZ-9, WZ-11
Water Levels	S	S	S	S	
Table 1A (329 IAC)	S	S	S	S	S
Table 1B (329 IAC)	S	S	S	S	S
Table 2 (329 IAC) Subset: VOC's, dissolved and total metals, phenolics, and inorganics		T: (last done 8/2023 for MW-17; 2/2024 for MW-18; 2/2023 for MW-16, MW-19S, MW-19D, MW-20, MW-21, MW-2R, MW-3D, & MW-3DR)		T: (last done 2/2024 at MW-9SRP and MW-24SAL)	
Detected Table 2 (329 IAC)		S		S	
Background Characterization Group: Trace Metals (Dissolved): Sb, Ba, Co, Pb, Li, Hg, Ni, Se, Ag, Tl, Sn, V, Zn				last done 2/2024 ar MW-24SAL for Zn (dissolved)	
Inorganics: Nitrate, Fluoride					

Notes:
- T = triennial (every third year); S= semi annual (twice per year)
-SVL = Spring Valley Landfill
- Please note that monitoring wells MW-13, MW-14, MW-15, MW-5, MW-5A, MW-5R, MW-10, MW-22AL, MW-22BD, MW-23DAL, and MW-23SAL have been abandoned
- The Background Characterization Group analyses are no longer conducted based on an IDEM letter dated March 25, 2019.

Table 3: Duplicate RPD's
Feb-24

WellName	Constituent	Duplicate	Regular	RDP%
MW-19S	1,1,1,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-19S	1,1,1-Trichloroethane(ug/L)	<1	<1	0.0
MW-19S	1,1,2,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-19S	1,1,2-Trichloroethane(ug/L)	<1	<1	0.0
MW-19S	1,1-Dichloroethane(ug/L)	<1	<1	0.0
MW-19S	1,1-Dichloroethylene(ug/L)	<5	<5	0.0
MW-19S	1,2-Dichlorobenzene(o)(ug/L)	<1	<1	0.0
MW-19S	1,2-Dichloroethane(ug/L)	<1	<1	0.0
MW-19S	1,2-Dichloropropane(ug/L)	<1	<1	0.0
MW-19S	1,4-Dichlorobenzene(p)(ug/L)	<1	<1	0.0
MW-19S	Alkalinity(mg/L)	436	439	0.7
MW-19S	Ammonia(mg/L)	4.9	4.9	0.0
MW-19S	Antimony (Dissolved)(ug/L)	<1	<1	0.0
MW-19S	Arsenic (Dissolved)(ug/L)	11.9	11.5	-3.4
MW-19S	Arsenic (Total)(ug/L)	11.9	11	-7.9
MW-19S	Barium (Dissolved)(ug/L)	761	728	-4.4
MW-19S	Barium (Total)(ug/L)	733	743	1.4
MW-19S	Benzene(ug/L)	<1	<1	0.0
MW-19S	Bicarbonate alkalinity(mg/L)	436	439	0.7
MW-19S	Bromomethane(ug/L)	<2	<2	0.0
MW-19S	Cadmium (Dissolved)(ug/L)	<2	<2	0.0
MW-19S	Calcium (Dissolved)(ug/L)	128000	129000	0.8
MW-19S	Carbon tetrachloride(ug/L)	<1	<1	0.0
MW-19S	Carbonate alkalinity(mg/L)	<10	<10	0.0
MW-19S	Chloride(mg/L)	234	225	-3.9
MW-19S	Chlorobenzene(ug/L)	<1	<1	0.0
MW-19S	Chloroethane(ug/L)	<1	<1	0.0
MW-19S	Chloroform(ug/L)	<1	<1	0.0
MW-19S	Chloromethane(ug/L)	<1	<1	0.0
MW-19S	Chromium (Dissolved)(ug/L)	<5	<5	0.0
MW-19S	cis-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-19S	cis-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-19S	Cobalt (Dissolved)(ug/L)	4.2	4.1	-2.4
MW-19S	Cobalt (Total)(ug/L)	<10	<10	0.0
MW-19S	Copper (Dissolved)(ug/L)	0.68	0.99	37.1
MW-19S	Ethyl Benzene(ug/L)	<1	<1	0.0
MW-19S	Fluoride(mg/L)	0.32	0.21	-41.5
MW-19S	Iron (Dissolved)(ug/L)	2260	2260	0.0
MW-19S	Lithium (Dissolved)(ug/L)	28.4	25	-12.7
MW-19S	Lithium (Total)(ug/L)	23.8		
MW-19S	Magnesium (Dissolved)(ug/L)	44200	44300	0.2
MW-19S	Manganese (Dissolved)(ug/L)	875	880	0.6
MW-19S	Methylene chloride(ug/L)	<3	<3	0.0
MW-19S	Nickel (Dissolved)(ug/L)	14.3	13.9	-2.8
MW-19S	Nickel (Total)(ug/L)	13.4	13.1	-2.3
MW-19S	Potassium (Dissolved)(ug/L)	39300	39300	0.0
MW-19S	Sodium (Dissolved)(ug/L)	85100	84900	-0.2
MW-19S	Styrene(ug/L)	<1	<1	0.0
MW-19S	Sulfate(mg/L)	21.3	22.6	5.9
MW-19S	Tetrachloroethylene(ug/L)	<1	<1	0.0
MW-19S	Thallium (Dissolved)(ug/L)	<1	<1	0.0
MW-19S	Toluene(ug/L)	<1	<1	0.0
MW-19S	Total dissolved solids(mg/L)	859	850	-1.1
MW-19S	Total phenolics(mg/L)	<0.01	<0.01	0.0
MW-19S	Total solids(mg/L)	810	875	7.7
MW-19S	trans-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-19S	trans-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-19S	Trichloroethylene(ug/L)	<1	<1	0.0
MW-19S	Trichlorofluoromethane(ug/L)	<5	<5	0.0

MW-19S	Vinyl chloride(ug/L)	<2	<2	0.0
MW-19S	Xylenes (Total)(ug/L)	<2	<2	0.0
MW-19S	Zinc (Dissolved)(ug/L)	<4	<4	0.0
MW-19S	Zinc (Total)(ug/L)	<20	<20	0.0
MW-26SAL	1,1,1,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,1,1-Trichloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,1,2,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,1,2-Trichloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,1-Dichloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,1-Dichloroethylene(ug/L)	<5	<5	0.0
MW-26SAL	1,2-Dichlorobenzene(o)(ug/L)	<1	<1	0.0
MW-26SAL	1,2-Dichloroethane(ug/L)	<1	<1	0.0
MW-26SAL	1,2-Dichloropropane(ug/L)	<1	<1	0.0
MW-26SAL	1,4-Dichlorobenzene(p)(ug/L)	<1	<1	0.0
MW-26SAL	Alkalinity(mg/L)	324	331	2.1
MW-26SAL	Ammonia(mg/L)	0.25	0.21	-17.4
MW-26SAL	Arsenic (Dissolved)(ug/L)	6.2	6.9	10.7
MW-26SAL	Benzene(ug/L)	<1	<1	0.0
MW-26SAL	Bicarbonate alkalinity(mg/L)	324	331	2.1
MW-26SAL	Bromomethane(ug/L)	<2	<2	0.0
MW-26SAL	Cadmium (Dissolved)(ug/L)	<2	<2	0.0
MW-26SAL	Calcium (Dissolved)(ug/L)	108000	108000	0.0
MW-26SAL	Carbon tetrachloride(ug/L)	<1	<1	0.0
MW-26SAL	Carbonate alkalinity(mg/L)	<10	<10	0.0
MW-26SAL	Chloride(mg/L)	55.8	109	64.6
MW-26SAL	Chlorobenzene(ug/L)	<1	<1	0.0
MW-26SAL	Chloroethane(ug/L)	<1	<1	0.0
MW-26SAL	Chloroform(ug/L)	<1	<1	0.0
MW-26SAL	Chloromethane(ug/L)	<1	<1	0.0
MW-26SAL	Chromium (Dissolved)(ug/L)	<5	<5	0.0
MW-26SAL	cis-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-26SAL	cis-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-26SAL	Copper (Dissolved)(ug/L)	0.51	0.58	12.8
MW-26SAL	Ethyl Benzene(ug/L)	<1	<1	0.0
MW-26SAL	Iron (Dissolved)(ug/L)	3390	3950	15.3
MW-26SAL	Magnesium (Dissolved)(ug/L)	33700	33900	0.6
MW-26SAL	Manganese (Dissolved)(ug/L)	66.7	71.6	7.1
MW-26SAL	Methylene chloride(ug/L)	<3	<3	0.0
MW-26SAL	Potassium (Dissolved)(ug/L)	4720	4700	-0.4
MW-26SAL	Sodium (Dissolved)(ug/L)	77300	80900	4.6
MW-26SAL	Styrene(ug/L)	<1	<1	0.0
MW-26SAL	Sulfate(mg/L)	46.9	73.3	43.9
MW-26SAL	Tetrachloroethylene(ug/L)	<1	<1	0.0
MW-26SAL	Toluene(ug/L)	<1	<1	0.0
MW-26SAL	Total dissolved solids(mg/L)	514	494	-4.0
MW-26SAL	Total solids(mg/L)	529	508	-4.1
MW-26SAL	trans-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-26SAL	trans-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-26SAL	Trichloroethylene(ug/L)	<1	<1	0.0
MW-26SAL	Trichlorofluoromethane(ug/L)	<5	<5	0.0
MW-26SAL	Vinyl chloride(ug/L)	<2	<2	0.0
MW-26SAL	Xylenes (Total)(ug/L)	<2	<2	0.0
MW-9SRP	1,1,1,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-9SRP	1,1,1-Trichloroethane(ug/L)	<1	<1	0.0
MW-9SRP	1,1,2,2-Tetrachloroethane(ug/L)	<1	<1	0.0
MW-9SRP	1,1,2-Trichloroethane(ug/L)	<1	<1	0.0
MW-9SRP	1,1-Dichloroethane(ug/L)	<1	<1	0.0
MW-9SRP	1,1-Dichloroethylene(ug/L)	<5	<5	0.0
MW-9SRP	1,1-Dichloropropylene(ug/L)	<5	<5	0.0
MW-9SRP	1,2,3-Trichloropropane(ug/L)	<5	<5	0.0
MW-9SRP	1,2-Dibromo-3-chloropropane(ug/L)	<25	<25	0.0
MW-9SRP	1,2-Dibromoethane(ug/L)	<5	<5	0.0
MW-9SRP	1,2-Dichlorobenzene(o)(ug/L)	<1	<1	0.0
MW-9SRP	1,2-Dichloroethane(ug/L)	<1	<1	0.0

MW-9SRP	1,2-Dichloropropane(ug/L)	<1	<1	0.0
MW-9SRP	1,3-Dichlorobenzene(m)(ug/L)	<5	<5	0.0
MW-9SRP	1,3-Dichloropropane(ug/L)	<5	<5	0.0
MW-9SRP	1,4-Dichlorobenzene(p)(ug/L)	<1	<1	0.0
MW-9SRP	2,2-Dichloropropane(ug/L)	<5	<5	0.0
MW-9SRP	2-Butanone(ug/L)	<50	<50	0.0
MW-9SRP	2-Hexanone(ug/L)	<50	<50	0.0
MW-9SRP	4-Methyl-2-pentanone(ug/L)	<50	<50	0.0
MW-9SRP	Acetone(ug/L)	<50	<50	0.0
MW-9SRP	Acetonitrile(ug/L)	<50	<50	0.0
MW-9SRP	Acrolein(ug/L)	<50	<50	0.0
MW-9SRP	Acrylonitrile(ug/L)	<50	<50	0.0
MW-9SRP	Alkalinity(mg/L)	488	467	-4.4
MW-9SRP	Allyl chloride(ug/L)	<5	<5	0.0
MW-9SRP	Ammonia(mg/L)	2.9	3.2	9.8
MW-9SRP	Antimony (Dissolved)(ug/L)	<1	<1	0.0
MW-9SRP	Antimony (Total)(ug/L)	<6	<6	0.0
MW-9SRP	Arsenic (Dissolved)(ug/L)	87.9	85.9	-2.3
MW-9SRP	Arsenic (Total)(ug/L)	117	92.3	-23.6
MW-9SRP	Barium (Dissolved)(ug/L)	1200	1200	0.0
MW-9SRP	Barium (Total)(ug/L)	1240	1310	5.5
MW-9SRP	Benzene(ug/L)	<1	<1	0.0
MW-9SRP	Beryllium (Dissolved)(ug/L)	<4	<4	0.0
MW-9SRP	Beryllium (Total)(ug/L)	<4	<4	0.0
MW-9SRP	Bicarbonate alkalinity(mg/L)	488	467	-4.4
MW-9SRP	Bromochloromethane(ug/L)	<5	<5	0.0
MW-9SRP	Bromodichloromethane(ug/L)	<5	<5	0.0
MW-9SRP	Bromoform(ug/L)	<5	<5	0.0
MW-9SRP	Bromomethane(ug/L)	<2	<2	0.0
MW-9SRP	Cadmium (Dissolved)(ug/L)	<2	<2	0.0
MW-9SRP	Cadmium (Total)(ug/L)	<2	<2	0.0
MW-9SRP	Calcium (Dissolved)(ug/L)	103000	102000	-1.0
MW-9SRP	Carbon disulfide(ug/L)	<50	<50	0.0
MW-9SRP	Carbon tetrachloride(ug/L)	<1	<1	0.0
MW-9SRP	Carbonate alkalinity(mg/L)	<10	<10	0.0
MW-9SRP	Chloride(mg/L)	91.6	92	0.4
MW-9SRP	Chlorobenzene(ug/L)	<1	<1	0.0
MW-9SRP	Chlorodibromomethane(ug/L)	<5	<5	0.0
MW-9SRP	Chloroethane(ug/L)	<1	<1	0.0
MW-9SRP	Chloroform(ug/L)	<1	<1	0.0
MW-9SRP	Chloromethane(ug/L)	<1	<1	0.0
MW-9SRP	Chloroprene(ug/L)	<5	<5	0.0
MW-9SRP	Chromium (Dissolved)(ug/L)	<5	<5	0.0
MW-9SRP	Chromium (Total)(ug/L)	9.7	6.1	-45.6
MW-9SRP	cis-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-9SRP	cis-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-9SRP	Cobalt (Dissolved)(ug/L)	2.1	2.1	0.0
MW-9SRP	Cobalt (Total)(ug/L)	<10	<10	0.0
MW-9SRP	Copper (Dissolved)(ug/L)	0.56	<0.5	-11.3
MW-9SRP	Copper (Total)(ug/L)	<20	22.7	12.6
MW-9SRP	Cyanide(mg/L)	<0.01	<0.01	0.0
MW-9SRP	Dichlorodifluoromethane(ug/L)	<5	<5	0.0
MW-9SRP	Ethyl Benzene(ug/L)	<1	<1	0.0
MW-9SRP	Fluoride(mg/L)	0.36	0.37	2.7
MW-9SRP	Iodomethane(ug/L)	<5	<5	0.0
MW-9SRP	Iron (Dissolved)(ug/L)	8840	9070	2.6
MW-9SRP	Isobutyl alcohol(ug/L)	<100	<100	0.0
MW-9SRP	Lead (Dissolved)(ug/L)	<0.5	<0.5	0.0
MW-9SRP	Lead (Total)(ug/L)	12.6	16.5	26.8
MW-9SRP	Lithium (Dissolved)(ug/L)	16.4	15.2	-7.6
MW-9SRP	Lithium (Total)(ug/L)	26.5	27.2	2.6
MW-9SRP	Magnesium (Dissolved)(ug/L)	42100	41900	-0.5
MW-9SRP	Manganese (Dissolved)(ug/L)	196	228	15.1
MW-9SRP	Mercury (Dissolved)(ug/L)	<0.2	<0.24	18.2

MW-9SRP	Mercury (Total)(ug/L)	<0.2	<0.2	0.0
MW-9SRP	Methacrylonitrile(ug/L)	<5	<5	0.0
MW-9SRP	Methyl methacrylate(ug/L)	<5	<5	0.0
MW-9SRP	Methylene chloride(ug/L)	<3	<3	0.0
MW-9SRP	Nickel (Dissolved)(ug/L)	10.9	10.6	-2.8
MW-9SRP	Nickel (Total)(ug/L)	24.7	31.6	24.5
MW-9SRP	Nitrate (as N)(mg/L)	<0.1	<0.1	0.0
MW-9SRP	Potassium (Dissolved)(ug/L)	6160	5940	-3.6
MW-9SRP	Propionitrile(ug/L)	<5	<5	0.0
MW-9SRP	Selenium (Dissolved)(ug/L)	<1	<1	0.0
MW-9SRP	Selenium (Total)(ug/L)	<1	<1	0.0
MW-9SRP	Silver (Dissolved)(ug/L)	<10	<10	0.0
MW-9SRP	Silver (Total)(ug/L)	<10	<10	0.0
MW-9SRP	Sodium (Dissolved)(ug/L)	41700	41500	-0.5
MW-9SRP	Styrene(ug/L)	<1	<1	0.0
MW-9SRP	Sulfate(mg/L)	<0.25	<0.25	0.0
MW-9SRP	Sulfide(mg/L)	<1	<1	0.0
MW-9SRP	Tetrachloroethylene(ug/L)	<1	<1	0.0
MW-9SRP	Thallium (Dissolved)(ug/L)	<1	<1	0.0
MW-9SRP	Thallium (Total)(ug/L)	<2	<2	0.0
MW-9SRP	Tin (Dissolved)(ug/L)	<4	<4	0.0
MW-9SRP	Tin (Total)(ug/L)	<50	<50	0.0
MW-9SRP	Toluene(ug/L)	<1	<1	0.0
MW-9SRP	Total dissolved solids(mg/L)	568	524	-8.1
MW-9SRP	Total phenolics(mg/L)	<0.05	<0.05	0.0
MW-9SRP	Total solids(mg/L)	1740	1000	-54.0
MW-9SRP	trans-1,2-Dichloroethylene(ug/L)	<1	<1	0.0
MW-9SRP	trans-1,3-Dichloropropylene(ug/L)	<1	<1	0.0
MW-9SRP	trans-1,4-Dichloro-2-butene(ug/L)	<5	<5	0.0
MW-9SRP	Trichloroethylene(ug/L)	<1	<1	0.0
MW-9SRP	Trichlorofluoromethane(ug/L)	<5	<5	0.0
MW-9SRP	Vanadium (Dissolved)(ug/L)	<4	<4	0.0
MW-9SRP	Vanadium (Total)(ug/L)	12.1	<10	-19.0
MW-9SRP	Vinyl acetate(ug/L)	<50	<50	0.0
MW-9SRP	Vinyl chloride(ug/L)	<2	<2	0.0
MW-9SRP	Xylenes (Total)(ug/L)	<2	<2	0.0
MW-9SRP	Zinc (Dissolved)(ug/L)	<4	<4	0.0
MW-9SRP	Zinc (Total)(ug/L)	44.6	62.4	33.3

TABLE 4
WABASH VALLEY LANDFILL
First Semi-Annual Sampling Event - 2024
East Area Monitoring Wells
East Area Limit Comparisons

Well Identification	First Semi-Annual 2024 Results (mg/L)	Inter-Well Prediction Limit* (mg/L)	MCL/SMCL (mg/l)	Protection Standard** (mg/l)
Ammonia as N (mg/L)				
MW-24DAL (d)	0.3	35		
MW-24SAL (d)	0.55	35		70
MW-25DAL (d)	0.15	35		
MW-25SAL (d)	0.51	35		
MW-26SAL (d)	0.21	35		
MW-27SAL (d)	<0.1	35		
MW-9RP (d)	<0.1	35		
MW-9SRP (d)	3.2	35		70
MW-A4 (d)	0.31	35		
Arsenic(d) (mg/L)				
MW-24DAL (d)	0.0189	0.49	0.01	
MW-24SAL (d)	0.0153	0.49	0.01	0.49
MW-25DAL (d)	0.0037	0.49	0.01	
MW-25SAL (d)	0.0185	0.49	0.01	
MW-26SAL (d)	0.0069	0.49	0.01	
MW-27SAL (d)	0.001	0.49	0.01	
MW-9RP (d)	0.0024	0.49	0.01	
MW-9SRP (d)	0.0859	0.49	0.01	0.49
MW-A4 (d)	0.0278	0.49	0.01	
Arsenic(t) (mg/L)				
MW-24SAL (d)	0.2	0.34	0.01	0.34
MW-9SRP (d)	0.0923	0.34	0.01	0.34
Barium(d) (mg/L)				
MW-24SAL (d)	0.719	1.50	2	2
MW-9SRP (d)	1.2	1.50	2	2
Barium(t) (mg/L)				
MW-24SAL (d)	**0.882**	0.62	2	2
MW-9SRP (d)	**1.31**	0.62	2	2
Cadmium(d) (mg/L)				
MW-24DAL (d)	<0.002	0.005	0.005	
MW-24SAL (d)	<0.002	0.005	0.005	0.005
MW-25DAL (d)	<0.002	0.005	0.005	
MW-25SAL (d)	<0.002	0.005	0.005	
MW-26SAL (d)	<0.002	0.005	0.005	
MW-27SAL (d)	<0.002	0.005	0.005	
MW-9RP (d)	<0.002	0.005	0.005	
MW-9SRP (d)	<0.002	0.005	0.005	0.005
MW-A4 (d)	<0.002	0.005	0.005	
Chloride (mg/L)				
MW-24DAL (d)	100	445	250	
MW-24SAL (d)	116	445	250	500
MW-25DAL (d)	26.1	445	250	
MW-25SAL (d)	115	445	250	
MW-26SAL (d)	109	445	250	
MW-27SAL (d)	35.6	445	250	
MW-9RP (d)	6.4	445	250	
MW-9SRP (d)	92	445	250	500
MW-A4 (d)	93.4	445	250	

TABLE 4
WABASH VALLEY LANDFILL
First Semi-Annual Sampling Event - 2024
East Area Monitoring Wells
East Area Limit Comparisons

Well Identification	First Semi-Annual 2024 Results (mg/L)	Inter-Well Prediction Limit* (mg/L)	MCL/SMCL (mg/l)	Protection Standard** (mg/l)
Chromium(d) (mg/L)				
MW-24DAL (d)	<0.005	0.005	0.1	
MW-24SAL (d)	<0.005	0.005	0.1	0.1
MW-25DAL (d)	<0.005	0.005	0.1	
MW-25SAL (d)	<0.005	0.005	0.1	
MW-26SAL (d)	<0.005	0.005	0.1	
MW-27SAL (d)	<0.005	0.005	0.1	
MW-9RP (d)	<0.005	0.005	0.1	
MW-9SRP (d)	<0.005	0.005	0.1	0.1
MW-A4 (d)	<0.005	0.005	0.1	
Chromium(t) (mg/L)				
MW-9SRP (d)	0.0061	0.100	0.1	0.1
Cobalt(d) (mg/L)				
MW-24SAL (d)	0.0028	0.0124		0.0124
MW-9SRP (d)	0.0021	0.0124		0.0124
Cobalt(t) (mg/L)				
MW-9SRP (d)	<0.01	0.039		0.039
Copper(d) (mg/L)				
MW-24DAL (d)	0.00059	0.079	1	
MW-24SAL (d)	0.00056	0.079	1	1
MW-25DAL (d)	<0.0005	0.079	1	
MW-25SAL (d)	0.00068	0.079	1	
MW-26SAL (d)	0.00058	0.079	1	
MW-27SAL (d)	0.00066	0.079	1	
MW-9RP (d)	0.0014	0.079	1	
MW-9SRP (d)	<0.0005	0.079	1	1
MW-A4 (d)	0.00052	0.079	1	
Copper(t) (mg/L)				
MW-24SAL (d)	<0.02	0.16	1	
MW-9SRP (d)	0.0227	0.16	1	
Fluoride (mg/L)				
MW-24SAL (d)	0.33	1.30	4/2	4
MW-9SRP (d)	0.37	1.30	4/2	4
Iron(d) (mg/L)				
MW-24DAL (d)	7.09	36	0.3	
MW-24SAL (d)	7.24	36	0.3	72
MW-25DAL (d)	2.1	36	0.3	
MW-25SAL (d)	5.86	36	0.3	
MW-26SAL (d)	3.95	36	0.3	
MW-27SAL (d)	<0.1	36	0.3	
MW-9RP (d)	<0.1	36	0.3	
MW-9SRP (d)	9.07	36	0.3	72
MW-A4 (d)	8.14	36	0.3	
Lead(t) (mg/L)				
MW-24SAL (d)	<0.005	0.0720	0.015	0.072
MW-9SRP (d)	0.0165	0.0720	0.015	0.072
Lithium(d) (mg/L)				
MW-24SAL (d)	0.0261	0.060		0.06
MW-9SRP (d)	0.0152	0.060		0.06
Lithium(t) (mg/L)				
MW-24SAL (d)	0.0272	0.100		0.1
MW-9SRP (d)	0.0272	0.100		0.1

TABLE 4
WABASH VALLEY LANDFILL
First Semi-Annual Sampling Event - 2024
East Area Monitoring Wells
East Area Limit Comparisons

Well Identification	First Semi-Annual 2024 Results (mg/L)	Inter-Well Prediction Limit* (mg/L)	MCL/SMCL (mg/l)	Protection Standard** (mg/l)
Manganese(d) (mg/L)				
MW-24DAL (d)	0.0888	1.35	0.05	
MW-24SAL (d)	0.336	1.35	0.05	2.7
MW-25DAL (d)	0.0551	1.35	0.05	
MW-25SAL (d)	1.07	1.35	0.05	
MW-26SAL (d)	0.0716	1.35	0.05	
MW-27SAL (d)	0.0342	1.35	0.05	
MW-9RP (d)	<0.01	1.35	0.05	
MW-9SRP (d)	0.228	1.35	0.05	2.7
MW-A4 (d)	0.656	1.35	0.05	
Nickel(d) (mg/L)				
MW-24SAL (d)	0.0122	0.07		0.07
MW-9SRP (d)	0.0106	0.07		0.07
Nickel(t) (mg/L)				
MW-24SAL (d)	0.0158	0.10		0.1
MW-9SRP (d)	0.0316	0.10		0.1
Sodium(d) (mg/L)				
MW-24DAL (d)	44.1	310		
MW-24SAL (d)	52.2	310		620
MW-25DAL (d)	15.6	310		
MW-25SAL (d)	25.6	310		
MW-26SAL (d)	80.9	310		
MW-27SAL (d)	11.3	310		
MW-9RP (d)	1.29	310		
MW-9SRP (d)	41.5	310		620
MW-A4 (d)	44.9	310		
Sulfate (mg/L)				
MW-24DAL (d)	15.1	150	250	
MW-24SAL (d)	10	150	250	500
MW-25DAL (d)	39.7	150	250	
MW-25SAL (d)	58.5	150	250	
MW-26SAL (d)	73.3	150	250	
MW-27SAL (d)	61	150	250	
MW-9RP (d)	5.3	150	250	
MW-9SRP (d)	<0.25	150	250	500
MW-A4 (d)	14.2	150	250	
Vanadium(t) (mg/L)				
MW-9SRP (d)	<0.01	0.12		0.12
Zinc(t) (mg/L)				
MW-24SAL (d)	<0.02	0.47	5	5
MW-9SRP (d)	0.0624	0.47	5	5
Zinc(d) (mg/L)				
MW-24SAL (d)	0.0055	0.028	5	5

* Inter-well Prediction Limits from December 17, 2009, December 15, 2015, April 19, 2021 and current submittals to IDEM.
**Protection Standards are shown for wells in assessment and are equal to the Ground Water Protection Standard (GWPS) for non-secondary parameters and twice the GWPS for secondary parameters.

Notes:

Bold values indicate exceedance over inter-well limit.

Please note that monitoring wells MW-25DAL, MW-25SAL replace MW-5A and MW-5, respectively.

Also note that monitoring well MW-27SAL used to be PZ-117SAL.

TABLE 5
WABASH VALLEY LANDFILL
First Semi-Annual Sampling Event - 2024
Witness Zone
Inorganic Data

Parameter (mg/L)	WZ-3	WZ-4	WZ-5	WZ-6	WZ-7	WZ-8	WZ-9	WZ-11B
Alkalinity (Total)	956	N/A*	634	N/A*	N/A*	N/A*	595	N/A*
Ammonia	351	N/A*	12.9	N/A*	N/A*	N/A*	0.22	N/A*
Arsenic (Dissolved)	0.0283	N/A*	0.0013	N/A*	N/A*	N/A*	0.0026	N/A*
Bicarbonate alkalinity	956	N/A*	634	N/A*	N/A*	N/A*	595	N/A*
Cadmium (Dissolved)	<0.002	N/A*	<0.002	N/A*	N/A*	N/A*	<0.002	N/A*
Calcium (Dissolved)	906.0	N/A*	493.0	N/A*	N/A*	N/A*	288.0	N/A*
Carbonate alkalinity	<10	N/A*	<10	N/A*	N/A*	N/A*	<10	N/A*
Chloride	13200	N/A*	1460	N/A*	N/A*	N/A*	65.8	N/A*
Chromium (Dissolved)	<0.01	N/A*	<0.005	N/A*	N/A*	N/A*	<0.005	N/A*
Copper (Dissolved)	0.0029	N/A*	0.0059	N/A*	N/A*	N/A*	0.0044	N/A*
Field dissolved oxygen	2.9	N/A*	2.12	N/A*	N/A*	N/A*	1.16	N/A*
Iron (Dissolved)	32.2	N/A*	1.72	N/A*	N/A*	N/A*	7.84	N/A*
Magnesium (Dissolved)	519.0	N/A*	144.0	N/A*	N/A*	N/A*	91.6	N/A*
Manganese (Dissolved)	1.4	N/A*	1.66	N/A*	N/A*	N/A*	3.16	N/A*
Potassium (Dissolved)	1810.0	N/A*	69.2	N/A*	N/A*	N/A*	2.21	N/A*
Sodium (Dissolved)	4570.0	N/A*	451.0	N/A*	N/A*	N/A*	24.3	N/A*
Sulfate	<2.5	N/A*	480	N/A*	N/A*	N/A*	488	N/A*
Total dissolved solids	18500	N/A*	3540	N/A*	N/A*	N/A*	1400	N/A*
Total solids	22800	N/A*	3850	N/A*	N/A*	N/A*	1500	N/A*

*WZ-4, WZ-6, WZ-7, WZ-8, & WZ-11B were dry for the February 2024 sampling event.

Witness Zone Leakage Rates Based on Monthly Totalizer Readings								
	WZ-3	WZ-4	WZ-5	WZ-6	WZ-7	WZ-8	WZ-9	WZ-11B
Action Leakage Rate, gal/acre/day	***42.5***	***42.5***	***42.5***	***26.8***	***26.8***	***28.3***	***28.3***	***28.3***
Leakage Rate for Month gal/acre/day								
Sep-23	0.0	0.0	0.0	0.4	0.0	0.0	0.0	3.7
Oct-23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Nov-23	0.0	0.0	0.0	1.9	0.0	0.0	2.3	3.7
Dec-23	0.0	0.0	0.0	1.8	0.0	0.0	0.1	2.8
Jan-24	0.0	0.0	0.0	3.7	0.0	0.0	0.6	2.2
Feb-24	0.0	0.0	0.0	5.0	0.0	0.0	2.7	1.5

Table 6: Comparison of West Area Results to GWPS
February, 2024

Parameter	Protection Standard*	MW-16	MW-17	MW-18	MW-19D	MW-19S	MW-20	MW-21	MW-2R	MW-3D	MW-3DR	MW-3S	SP-1	SP-2
1,4-Dichlorobenzene (mg/L)	0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Alkalinity (Total) (mg/L)	NS	506	617	438	386	439	432	416	741	753	676	827	336	450
Ammonia (mg/L)	3.8	0.83	2	0.8	0.34	4.9	6.7	<0.1	0.13	32.4	18.6	72.9	0.1	1.7
Antimony (Dissolved) (mg/L)	0.006	-	-	<0.001	<0.001	<0.001	-	<0.001	-	-	<0.001	-	<0.001	<0.001
Antimony (Total) (mg/L)	0.006	-	-	<0.006	-	-	-	-	-	-	-	-	<0.006	<0.006
Arsenic (Dissolved) (mg/L)	0.01	0.0044	<0.001	0.0229	0.001	0.0115	0.0656	<0.001	0.0367	0.0042	0.0904	0.189	0.0024	0.0034
Arsenic (Total) (mg/L)	0.038	0.0058	<0.005	0.031	<0.005	0.011	0.107	<0.005	0.0951	0.01	0.0832	-	<0.005	<0.005
Barium (Dissolved) (mg/L)	2	0.53	0.181	0.989	0.148	0.728	1.24	0.325	0.302	1.56	1.08	-	0.353	0.234
Barium (Total) (mg/L)	2	0.502	0.184	0.967	0.156	0.743	1.24	0.368	0.34	1.48	0.994	-	0.372	0.184
Benzene (mg/L)	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	<0.001	<0.001
Beryllium (Dissolved) (mg/L)	0.004	-	-	<0.004	-	-	-	-	-	-	-	-	-	-
Beryllium (Total) (mg/L)	0.004	-	-	<0.004	-	-	-	-	-	-	-	-	-	-
Bicarbonate alkalinity (mg/L)	NS	506	617	438	386	439	432	416	741	753	676	827	336	450
Cadmium (Dissolved) (mg/L)	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium (Total) (mg/L)	0.005	<0.002	-	<0.002	-	-	-	-	<0.002	-	-	-	<0.002	<0.002
Calcium (Dissolved) (mg/L)	NS	377.0	186.0	147.0	105.0	129.0	153.0	136.0	249.0	143.0	162.0	192.0	121.0	143.0
Carbonate alkalinity (mg/L)	NS	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloride (mg/L)	500	307	71.7	188	35.2	225	277	177	172	252	246	458	95.3	153
Chlorobenzene (mg/L)	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0027	0.0034	0.004	<0.001	<0.001
Chromium (Dissolved) (mg/L)	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium (Total) (mg/L)	0.1	<0.005	-	<0.005	-	-	-	-	<0.005	-	-	-	<0.005	<0.005
Cobalt (Dissolved) (mg/L)	0.008	0.0053	<0.001	0.0017	<0.001	0.0041	0.0024	<0.001	0.0011	0.0039	-	-	<0.001	<0.001
Cobalt (Total) (mg/L)	0.039	<0.01	-	<0.01	-	<0.01	-	-	<0.01	-	-	-	<0.01	<0.01
Copper (Dissolved) (mg/L)	1.3	0.0031	0.0045	0.0017	0.0015	0.00099	0.0018	0.0027	0.0015	0.0051	0.00097	0.0018	0.0009	0.0017
Copper (Total) (mg/L)	1.3	<0.02	<0.02	<0.02	-	-	<0.02	-	<0.02	-	-	-	<0.02	<0.02
Cyanide (mg/L)	0.2	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Fluoride (mg/L)	4	0.18	0.12	0.29	0.82	0.21	0.35	0.22	0.16	0.18	0.29	-	0.38	0.36
Iron (Dissolved) (mg/L)	14.8	2.08	<0.1	7.98	1.24	2.26	6.13	<0.1	7.92	0.261	8.87	32.0	1.03	3.43
Lead (Dissolved) (mg/L)	0.015	-	-	<0.0005	-	-	-	-	-	-	-	-	<0.0005	<0.0005
Lead (Total) (mg/L)	0.072	<0.005	<0.005	<0.005	-	-	<0.005	<0.005	<0.005	-	<0.005	-	<0.005	<0.005
Lithium (Dissolved) (mg/L)	0.043	0.0157	<0.01	0.0191	0.034	0.025	0.0284	0.0115	<0.01	0.0203	0.0279	-	0.0135	0.0206
Lithium (Total) (mg/L)	0.1	0.0125	<0.01	0.0159	0.0328	-	0.0285	0.0132	<0.01	0.0206	0.0233	-	0.0127	0.0164
Magnesium (Dissolved) (mg/L)	NS	142.0	46.8	43.4	38.3	44.3	55.1	39.1	93.0	78.2	79.8	123.0	38.3	46.6
Manganese (Dissolved) (mg/L)	0.7	2.52	0.111	0.294	0.0403	0.88	0.859	<0.01	0.792	0.135	0.116	0.182	0.0415	0.298
Mercury (Dissolved) (mg/L)	0.002	-	-	<0.0002	-	-	-	-	-	-	-	-	<0.0002	<0.0002
Mercury (Total) (mg/L)	0.002	-	-	<0.0002	-	-	-	-	-	-	-	-	<0.0002	<0.0002
Nickel (Dissolved) (mg/L)	0.1	0.0201	0.0063	0.0097	<0.002	0.0139	0.0092	0.0071	0.0099	0.0275	0.0155	-	<0.002	<0.002
Nickel (Total) (mg/L)	0.1	0.019	<0.01	<0.01	-	0.0131	<0.01	0.0111	<0.01	0.0273	-	-	<0.01	<0.01
Nitrate (as N) (mg/L)	10	<0.1	1.4	<0.1	-	-	<0.1	0.26	-	0.27	-	-	0.23	0.42
Potassium (Dissolved) (mg/L)	NS	88.7	6.15	5.9	4.09	39.3	28.7	7.67	1.09	32.9	24.5	104.0	1.83	5.45
Selenium (Dissolved) (mg/L)	0.05	<0.001	-	<0.001	-	-	-	<0.001	-	<0.001	-	-	<0.001	<0.001
Selenium (Total) (mg/L)	0.05	<0.001	-	<0.001	-	-	-	-	-	-	-	-	<0.001	<0.001
Silver (Dissolved) (mg/L)	0.1	-	-	<0.01	-	-	-	-	-	-	-	-	<0.01	<0.01
Silver (Total) (mg/L)	0.1	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved) (mg/L)	170	389.0	49.7	60.8	19.5	84.9	84.1	72.2	72.6	136.0	127.0	405.0	31.8	77.3
Sulfate (mg/L)	560	141	48.6	7.6	31.7	22.6	15.1	21.7	158	1.2	6	0.3	54	68.5
Sulfide (mg/L)	1	-	-	<1	-	-	-	-	-	-	-	-	-	-
Thallium (Dissolved) (mg/L)	0.002	-	-	<0.001	-	<0.001	-	-	-	-	-	-	<0.001	<0.001
Thallium (Total) (mg/L)	0.002	-	-	<0.002	-	-	-	-	-	-	-	-	-	-
Tin (Dissolved) (mg/L)	0.004	<0.004	<0.004	<0.004	-	-	-	-	<0.004	-	-	-	<0.004	<0.004
Tin (Total) (mg/L)	0.004	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
Toluene (mg/L)	1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total dissolved solids (mg/L)	NS	3270	783	784	496	850	1040	393	1260	1140	1150	2550	566	762
Total phenolics (mg/L)	0.013	-	<0.033	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01
Total solids (mg/L)	NS	3550	964	858	493	875	1050	854	1340	1180	1160	2610	766	812
Vanadium (Dissolved) (mg/L)	0.004	-	-	<0.004	-	-	-	-	-	-	-	-	<0.004	<0.004
Vanadium (Total) (mg/L)	0.12	<0.01	-	<0.01	-	-	-	<0.01	<0.01	-	-	-	<0.01	<0.01
Zinc (Dissolved) (mg/L)	5	0.0043	<0.004	<0.004	-	<0.004	<0.004	<0.004	<0.004	0.0293	-	-	<0.004	<0.004
Zinc (Total) (mg/L)	5	<0.02	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02

*Protection Standards are equal to GWPS for non-secondary parameters and to twice the GWPS for secondary.
GWPS's from April 2019 StEP.
Exceedances are shaded green.

Table 7: West Area Summary of Exceedances & Trends

February 2024

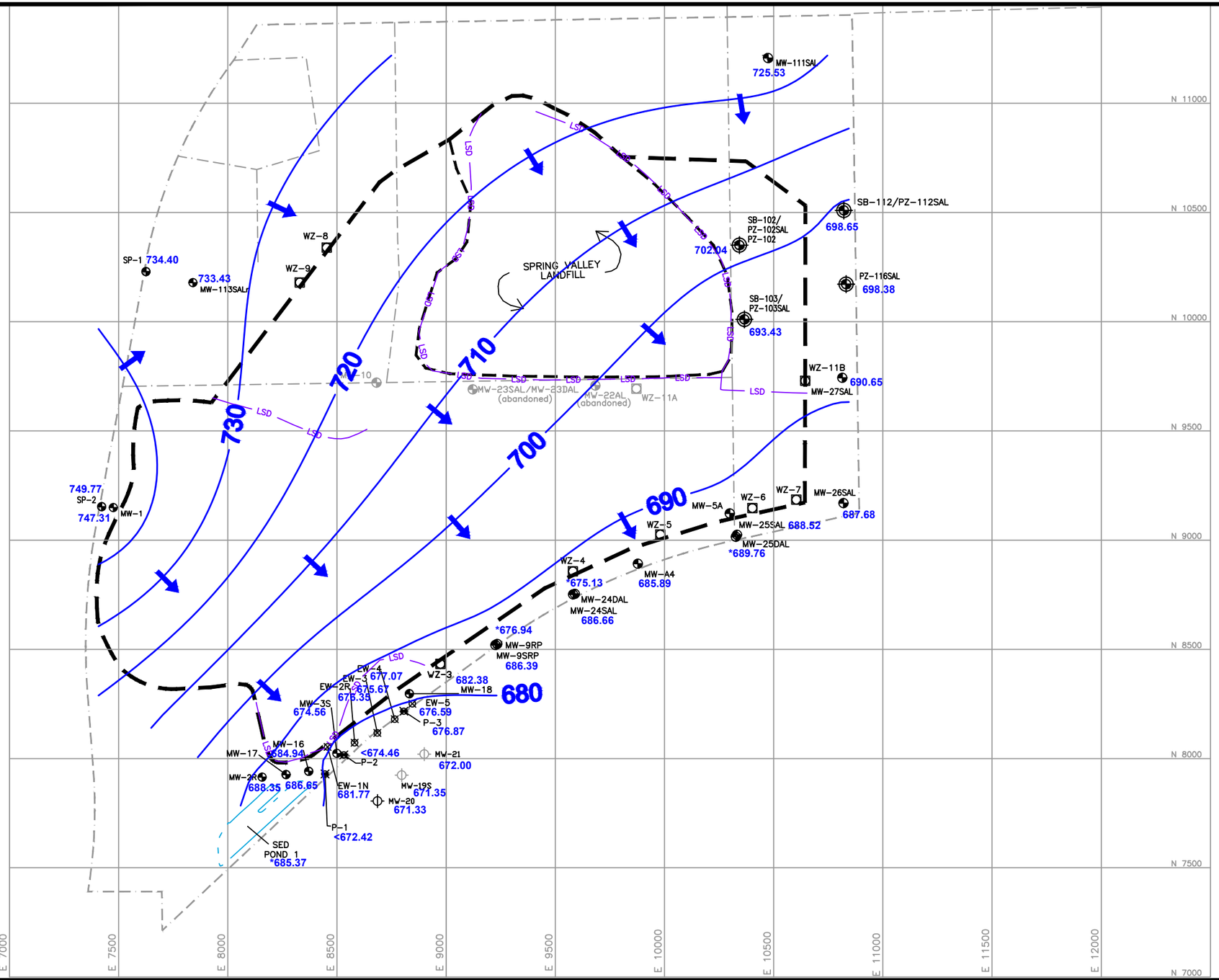
Parameter	Protection Standard*	Wells Exceeding Protection Standard for First Semi-Annual Event 2024	Significantly Increasing Trend**	Significantly Decreasing Trend**
1,4-Dichlorobenzene (mg/L)	0.075	None		MW-17
Ammonia (mg/L)	3.8	MW-19S, MW-20, MW-3D, MW-3DR, MW-3S	MW-3D, MW-3DR, MW-3S	MW-17, MW-18, MW-20, SP-1
Antimony (Dissolved) (mg/L)	0.006	None		
Antimony (Total) (mg/L)	0.006	None		
Arsenic (Dissolved) (mg/L)	0.01	MW-18, MW-19S, MW-20, MW-2R, MW-3DR, MW-3S	MW-18, MW-19S, MW-20, MW-3DR, MW-3S, SP-2	MW-16, MW-17, SP-1
Arsenic (Total) (mg/L)	0.038	MW-20, MW-2R, MW-3DR	MW-3DR, MW-19S, SP-2	MW-16, MW-17
Barium (Dissolved) (mg/L)	2	None	MW-3D, MW-3DR, MW-19D, MW-21	MW-17, MW-18, MW-19S, MW-20
Barium (Total) (mg/L)	2	None	MW-3DR, MW-19D, MW-21	MW-16, MW-17, MW-18, MW-19S, MW-20, SP-1, SP-2
Benzene (mg/L)	0.005	None		MW-16, MW-17, MW-3S
Beryllium (Dissolved) (mg/L)	0.004	None		
Beryllium (Total) (mg/L)	0.004	None		
Cadmium (Dissolved) (mg/L)	0.007	None		
Cadmium (Total) (mg/L)	0.005	None		
Chloride (mg/L)	500	None	MW-16,MW-18, MW-21, MW-3D, MW-3DR, MW-3S	MW-17, SP-1
Chlorobenzene (mg/L)	0.1	None	MW-3DR	MW-16, MW-17
Chromium (Dissolved) (mg/L)	0.1	None		
Chromium (Total) (mg/L)	0.1	None		MW-18
Cobalt (Dissolved) (mg/L)	0.008	None		MW-17, MW-18, MW-2R, MW-3D, MW-19S, MW-20
Cobalt (Total) (mg/L)	0.039	None		MW-18
Copper (Dissolved) (mg/L)	1.3	None		MW-20
Copper (Total) (mg/L)	1.3	None		MW-18
Cyanide (mg/L)	0.2	None		
Fluoride (mg/L)	4	None	SP-2, MW-20	MW-3DR
Iron (Dissolved) (mg/L)	14.8	MW-3S	MW-18, MW-19S, MW-19D, MW-3DR, MW-3S	MW-16, MW-17, SP-1, MW-20
Lead (Dissolved) (mg/L)	0.015	None		
Lead (Total) (mg/L)	0.072	None		MW-17, MW-18, MW-20, MW-21
Lithium (Dissolved) (mg/L)	0.043	None		MW-17, MW-18, MW-20, MW-3DR
Lithium (Total) (mg/L)	0.1	None		MW-17, MW-18, MW-2R, MW-3DR, MW-20, SP-1
Manganese (Dissolved) (mg/L)	0.7	MW-16, MW-19S, MW-20, MW-2R	MW-16, MW-17,MW-3DR, SP-2	MW-18, MW-2R, MW-3D, MW-3S, MW-19S, MW-20, SP-1
Mercury (Dissolved) (mg/L)	0.002	None		
Mercury (Total) (mg/L)	0.002	None		
Nickel (Dissolved) (mg/L)	0.1	None	MW-3D, MW-3DR	MW-18, MW-19S, MW-20
Nickel (Total) (mg/L)	0.1	None		MW-17, MW-18, MW-2R, MW-19S, MW-20, SP-1
Nitrate (as N) (mg/L)	10	None	SP-1	MW-21
Potassium (Dissolved) (mg/L)	NS	None	MW-16, MW-3DR	MW-17, MW-18, MW-2R, SP-1, MW-19D, MW-20
Selenium (Dissolved) (mg/L)	0.05	None		
Selenium (Total) (mg/L)	0.02	None		
Silver (Dissolved) (mg/L)	0.1	None		
Silver (Total) (mg/L)	0.1	None		
Sodium (Dissolved) (mg/L)	170	MW-16, MW-3S	MW-16, MW-3D, MW-3DR, MW-3S, MW-21	MW-17, MW-2R, MW-19D, MW-20
Sulfate (mg/L)	560	None	MW-16, MW-17, MW-19S, MW-20	MW-18, MW-3D, MW-3DR, MW-21, MW-3S, SP-1, SP-2
Sulfide (mg/L)	1	None		
Thallium (Dissolved) (mg/L)	0.002	None		
Thallium (Total) (mg/L)	0.002	None		
Tin (Dissolved) (mg/L)	0.004	None		
Tin (Total) (mg/L)	0.004	None		
Toluene (mg/L)	1	None		
Total phenolics (mg/L)	0.013	None		
Vanadium (Dissolved) (mg/L)	0.004	None		
Vanadium (Total) (mg/L)	0.12	None		MW-18
Zinc (Dissolved) (mg/L)	5	None		MW-18, MW-20, SP-1, SP-2
Zinc (Total) (mg/L)	5	None		MW-17, MW-18, SP-1

*Protection Standards are equal to GWPS for non-secondary parameters and to twice the GWPS for secondary.
GWPS's from April 2019 StEP.
** Trends based on Mann-Kendal for Feb. 2009 to Aug. 2023. Evaluation from 2009 based on extraction system operational May 2010. Median reporting limits used for trend testing to minimize the effect of changing reporting limits.

Table 8: Assessment Detections*
Wabash Valley Landfill
02-2024 Sampling Event

Species Name	Well Name	Concentration**	Units	Detection Limit	Status	Intra-well Background # ***	Inter-well Background # ***
Arsenic, Total	MW-111SAL	27.5	ug/L	5	Background		
Barium, Dissolved	MW-111SAL	167	ug/L	2	Background		
Barium, Total	MW-111SAL	220	ug/L	10	Background		
Cadmium, Total	MW-111SAL	3.1	ug/L	2	Background		
Fluoride, Total	MW-111SAL	0.82	mg/L	0.1	Background		
Lead, Total	MW-111SAL	12.8	ug/L	5	Background		
Lithium, Dissolved	MW-111SAL	21.6	ug/L	10	Background		
Lithium, Total	MW-111SAL	19.5	ug/L	10	Background		
Nitrogen, Nitrate	MW-111SAL	0.23	mg/L	0.1	Background		
Arsenic, Total	MW-18	31	ug/L	5	Routine		
Barium, Dissolved	MW-18	989	ug/L	20	Routine		
Barium, Total	MW-18	967	ug/L	10	Routine		
Cobalt, Dissolved	MW-18	1.7	ug/L	1	Routine		
Fluoride, Total	MW-18	0.29	mg/L	0.1	Routine		
Lithium, Dissolved	MW-18	19.1	ug/L	10	Routine		
Lithium, Total	MW-18	15.9	ug/L	10	Routine		
Nickel, Dissolved	MW-18	9.7	ug/L	2	Routine		
Arsenic, Dissolved	MW-24SAL	15.3	ug/L	1	Routine		
Arsenic, Total	MW-24SAL	200	ug/L	5	Routine		
Barium, Dissolved	MW-24SAL	719	ug/L	10	Routine		
Barium, Total	MW-24SAL	882	ug/L	10	Routine		
Cobalt, Dissolved	MW-24SAL	2.8	ug/L	1	Routine		
Copper, Dissolved	MW-24SAL	0.56	ug/L	0.5	Routine		
Fluoride, Total	MW-24SAL	0.33	mg/L	0.1	Routine		
Lithium, Dissolved	MW-24SAL	26.1	ug/L	10	Routine		
Lithium, Total	MW-24SAL	27.2	ug/L	10	Routine		
Nickel, Dissolved	MW-24SAL	12.2	ug/L	2	Routine		
Nickel, Total	MW-24SAL	15.8	ug/L	10	Routine		
Zinc, Dissolved	MW-24SAL	5.5	ug/L	4	**Non-Routine**	**>4**	**>4**
Arsenic, Dissolved	MW-9SRP	85.9/87.9	ug/L	1	Routine		
Arsenic, Total	MW-9SRP	92.3/117	ug/L	5	Routine		
Barium, Dissolved	MW-9SRP	1200/1200	ug/L	20	Routine		
Barium, Total	MW-9SRP	1310/1240	ug/L	10	Routine		
Chromium, Total	MW-9SRP	6.1/9.7	ug/L	5	Routine		
Cobalt, Dissolved	MW-9SRP	2.1/2.1	ug/L	1	Routine		
Copper, Dissolved	MW-9SRP	<0.5/0.56	ug/L	0.5	Routine		
Copper, Total	MW-9SRP	22.7/<20	ug/L	20	Routine		
Fluoride, Total	MW-9SRP	0.37/0.36	mg/L	0.1	Routine		
Lead, Total	MW-9SRP	16.5/12.6	ug/L	5	Routine		
Lithium, Dissolved	MW-9SRP	15.2/16.4	ug/L	10	Routine		
Lithium, Total	MW-9SRP	27.2/26.5	ug/L	10	Routine		
Nickel, Dissolved	MW-9SRP	10.6/10.9	ug/L	2	Routine		
Nickel, Total	MW-9SRP	31.6/24.7	ug/L	10	Routine		
Vanadium, Total	MW-9SRP	<10/12.1	ug/L	10	Routine		
Zinc, Total	MW-9SRP	62.4/44.6	ug/L	20	Routine		
Barium, Dissolved	SP-1	353	ug/L	6	Background		
Barium, Total	SP-1	372	ug/L	10	Background		
Fluoride, Total	SP-1	0.38	mg/L	0.1	Background		
Lithium, Dissolved	SP-1	13.5	ug/L	10	Background		
Lithium, Total	SP-1	12.7	ug/L	10	Background		
Nitrogen, Nitrate	SP-1	0.23	mg/L	0.1	Background		
Barium, Dissolved	SP-2	234	ug/L	4	Background		
Barium, Total	SP-2	184	ug/L	10	Background		
Fluoride, Total	SP-2	0.36	mg/L	0.1	Background		
Lithium, Dissolved	SP-2	20.6	ug/L	10	Background		
Lithium, Total	SP-2	16.4	ug/L	10	Background		
Nitrogen, Nitrate	SP-2	0.42	mg/L	0.1	Background		

* Parameters that are also in Tables 1A/1B are not shown.
**Where 2 values are shown, the 2nd is the field duplicate.
*** # of inter-well samples since 2/2009



SCALE IN FEET

0 250 500

1" = 500'- 0"

LOCATION	DATE OF MEASUREMENT	TIME OF MEASUREMENT	GROUND SURFACE ELEVATION (FT)	CASING ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)	NOTE
EW-1N	2/12/2024	2:17 PM	690.21	693.34	11.57	681.77	-
EW-2R	2/12/2024	2:15 PM	687.69	689.50	13.15	676.35	-
EW-3	2/12/2024	2:12 PM	684.76	688.16	12.49	675.67	-
EW-4	2/12/2024	2:08 PM	685.14	688.69	11.62	677.07	-
EW-5	2/12/2024	2:05 PM	687.56	690.92	14.33	676.59	-
MW-1	2/12/2024	4:15 PM	694.59	696.88	24.23	747.31	-
MW-111SAL	2/12/2024	1:12 PM	694.57	696.93	18.40	725.53	-
MW-113SALr	2/12/2024	1:00 PM	683.96	686.98	33.47	733.43	-
MW-16	2/12/2024	2:50 PM	686.00	688.19	4.87	684.94	-
MW-17	2/12/2024	2:54 PM	686.00	689.38	6.00	686.65	-
MW-18	2/12/2024	1:56 PM	-	683.59*	14.91	682.38	-
MW-19S	2/14/2024	9:20 AM	769.47	771.54	13.43	671.35	-
MW-20	2/14/2024	9:24 AM	741.09	743.93	10.75	671.33	-
MW-21	2/14/2024	9:15 AM	764.62	766.90	15.39	672.00	-
MW-24DAL	2/12/2024	1:40 PM	687.38	689.81	21.75	675.13	-
MW-24SAL	2/12/2024	1:46 PM	690.11	692.65	9.82	686.66	-
MW-25DAL	2/12/2024	1:32 PM	694.44	697.01	7.17	689.76	-
MW-25SAL	2/12/2024	1:32 PM	683.46	684.78	8.88	688.52	-
MW-26SAL	2/12/2024	1:27 PM	679.78	682.08	14.48	687.68	-
MW-27SAL	2/12/2024	1:24 PM	685.12	687.39	13.87	690.65	-
MW-2R	2/12/2024	3:00 PM	694.32	696.48	5.01	688.35	-
MW-3S	2/12/2024	2:35 PM	695.08	697.40	13.97	674.56	-
MW-9RP	2/12/2024	1:50 PM	699.89	702.16	17.33	676.94	-
MW-9SRP	2/12/2024	1:53 PM	702.09	704.52	7.43	686.39	-
MW-A4	2/12/2024	1:35 PM	691.28	693.36	11.32	685.89	-
P-1	2/12/2024	4:01 PM	686.09	688.53	DRY	-	-
P-2	2/12/2024	4:04 PM	691.45	694.27	DRY	-	-
P-3	2/12/2024	4:10 PM	691.63	693.82	12.51	676.87	-
PZ-102SAL	2/12/2024	1:15 PM	694.26	697.21	2.89	702.04	-
PZ-103SAL	2/12/2024	1:17 PM	701.79	704.93	4.27	693.43	-
PZ-112SAL	2/12/2024	1:19 PM	694.93	697.70	8.54	698.65	-
PZ-116SAL	2/12/2024	1:20 PM	703.60	707.19	5.81	698.38	-
Sed Pond 1*	2/12/2024	2:20 PM	-	683.59	-1.78	685.37	-
SP-1	2/12/2024	1:03 PM	769.36	771.87	37.47	734.40	-
SP-2	2/12/2024	4:00 PM	771.10	773.35	23.58	749.77	-

*Reference mark of 4.00 feet for surface water gauge corresponds to an elevation of 687.59 feet
Datum in table corresponds to zero marking of gauge

NOTES:

1. *MW-9RP, *MW-24DAL, *MW-25DAL AND *POND 1 WERE NOT USED IN CONTOUR MAPPING.
2. WATER LEVELS WERE MONITORED ON FEBRUARY 12, 2024, WITH THE EXCEPTION OF THOSE WELLS SOUTH OF THE TRACKS (MW-19S, MW-20, & MW-21) WHICH WERE MONITORED ON FEBRUARY 14, 2024.

SESCO group

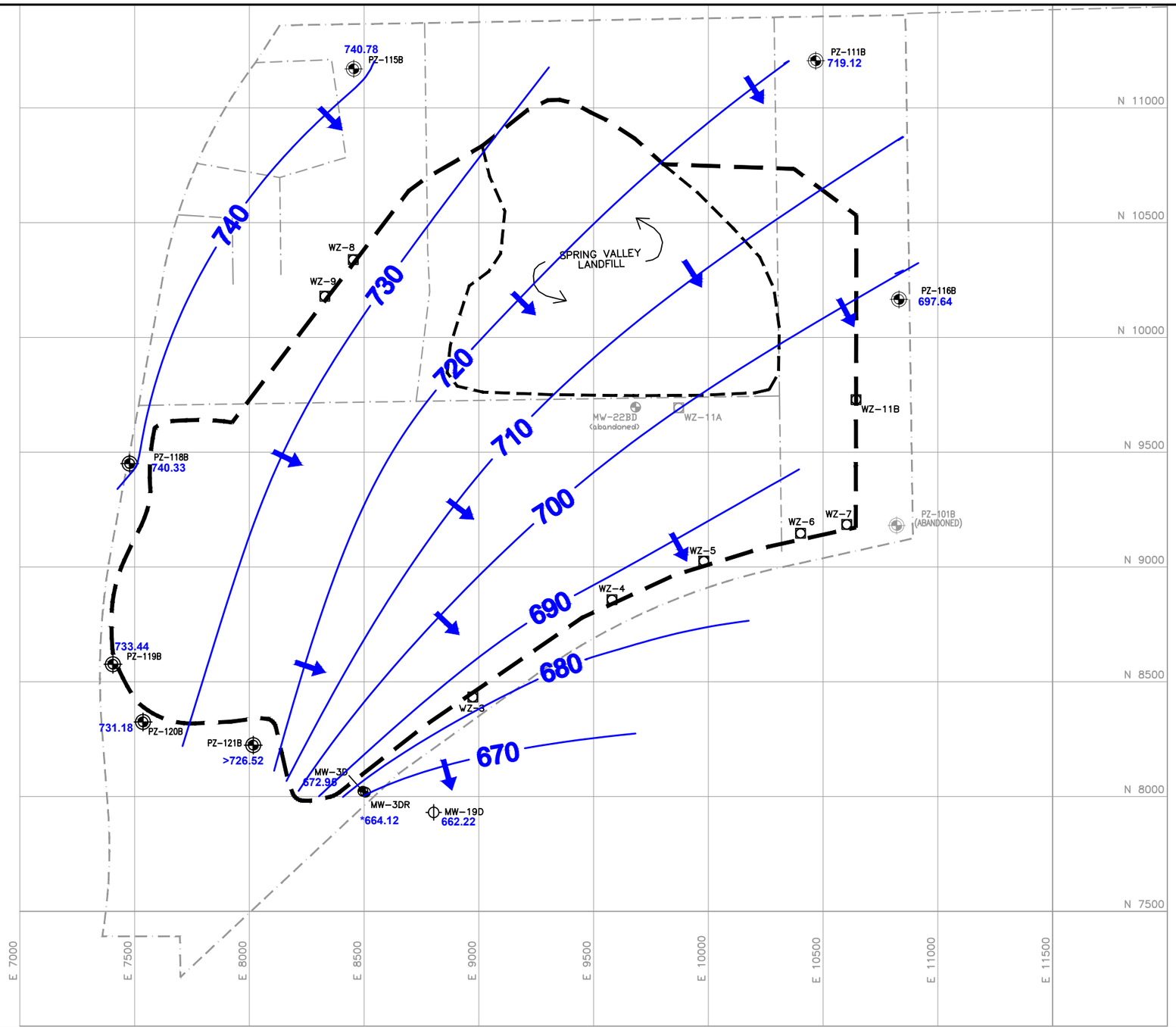
LEGEND

- PERMITTED SOLID WASTE BOUNDARY
- SPRING VALLEY LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- LSD — LEACHATE SEEP DRAIN (LSD)
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER CORRECTIVE ACTION WELL
- EXISTING WITNESS ZONE MONITORING LOCATION
- PIEZOMETER LOCATION
- GROUNDWATER EXTRACTION WELL
- EXTRACTION WELL ABANDONED
- EXTRACTION PIEZOMETER
- PZ-118B / 685.39 — WELL IDENTIFICATION AND GROUNDWATER ELEVATION (FEET)
- 670 — GROUNDWATER CONTOUR - 10' INT.
- GROUNDWATER FLOW DIRECTION

GROUNDWATER MAP - SHALLOW WELLS FEBRUARY 2024

WABASH VALLEY LANDFILL
PERMIT # 85-01
WABASH COUNTY, INDIANA

DRAWN BY: SWB	DATE:	PROJECT #	FIGURE #
REVIEWED BY: TAB	04-03-2024	4357	1



SCALE IN FEET

0 250 500

1" = 500'- 0"

LOCATION	DATE OF MEASUREMENT	TIME OF MEASUREMENT	GROUND SURFACE ELEVATION (FT)	CASING ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)	NOTE
MW-19D	2/14/2024	9:18 AM	684.78	685.73	23.51	662.22	-
MW-3D	2/12/2024	2:40 PM	685.72	687.56	14.61	672.95	-
MW-3DR	2/12/2024	2:42 PM	685.64	687.98	23.86	664.12	-
PZ-111B	2/12/2024	1:10 PM	740.45	743.80	24.68	719.12	-
PZ-115B	2/12/2024	1:06 PM	757.22	762.30	21.52	740.78	-
PZ-116B	2/12/2024	1:21 PM	702.01	704.10	6.46	697.64	-
PZ-118B	2/12/2024	3:34 PM	760.26	763.94	23.61	740.33	-
PZ-119B	2/12/2024	3:18 PM	758.25	760.82	27.38	733.44	-
PZ-120B	2/12/2024	3:14 PM	740.69	743.36	12.18	731.18	-
PZ-121B	2/12/2024	3:10 PM	723.94	726.52	OVERFLOWING	OVERFLOWING	-

NOTES:

1. *MW-3DR WAS NOT USED IN CONTOUR MAPPING.
2. PZ-101B WAS DAMAGED AT THE TIME OF THE AUGUST SAMPLING AND WAS ABANDONED AUGUST 16, 2016.
3. WATER LEVELS WERE MONITORED ON AUGUST 15, 2023, WITH THE EXCEPTION OF MW-19D (LOCATED SOUTH OF THE TRACKS) WHICH WAS MONITORED ON FEBRUARY 14, 2024.

SESCO group

LEGEND

- PERMITTED SOLID WASTE BOUNDARY
- SPRING VALLEY LANDFILL BOUNDARY
- PROPERTY BOUNDARY
- EXISTING GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER CORRECTIVE ACTION WELL
- EXISTING WITNESS ZONE MONITORING LOCATION
- PIEZOMETER LOCATION
- PZ-118B 669.07 — WELL IDENTIFICATION AND GROUNDWATER ELEVATION (FEET)
- 670 — GROUNDWATER CONTOUR - 10' INT.
- GROUNDWATER FLOW DIRECTION

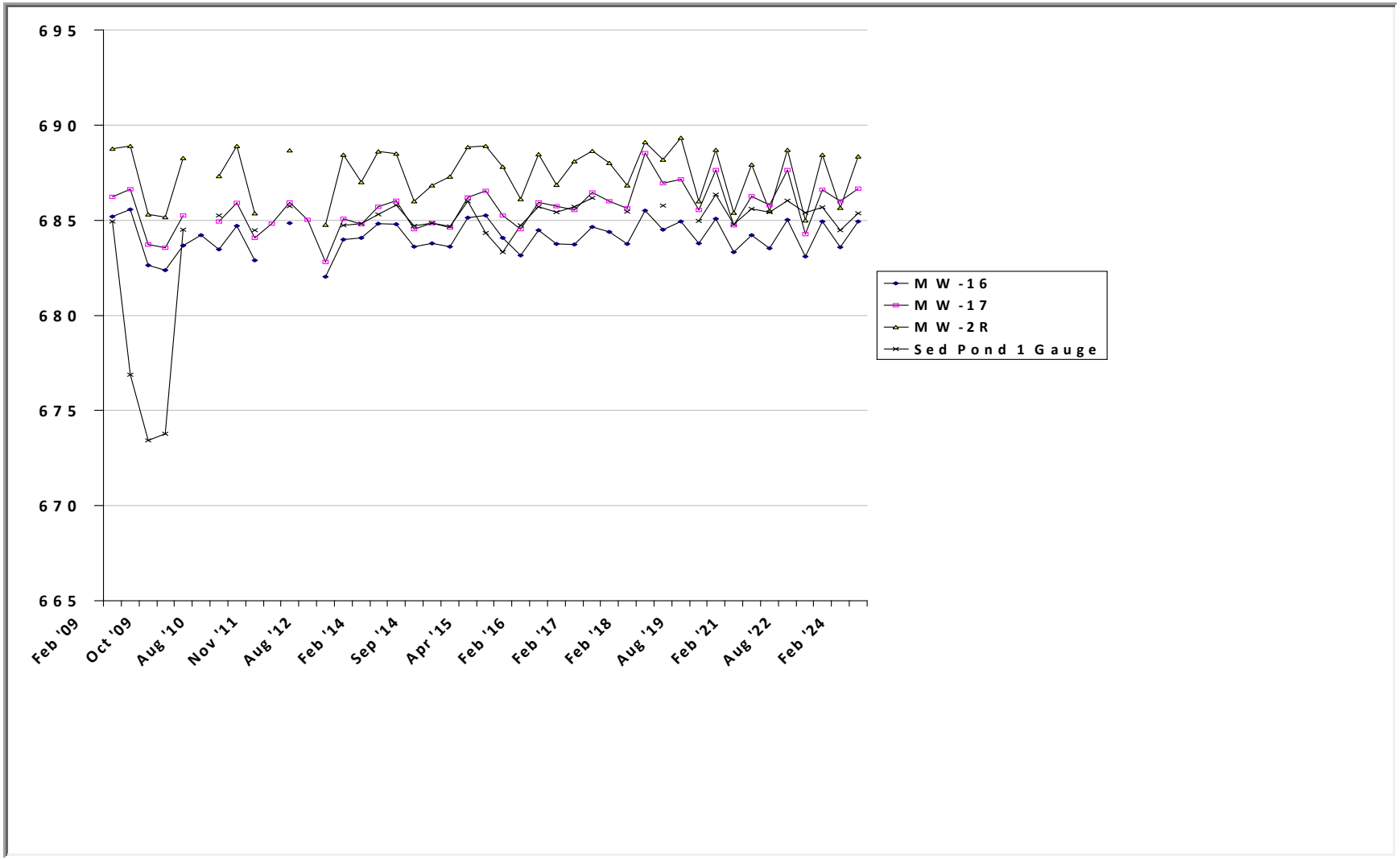
GROUNDWATER MAP - DEEP WELLS FEBRUARY 2024

WABASH VALLEY LANDFILL
PERMIT # 85-01
WABASH COUNTY, INDIANA

DRAWN BY: SWB	DATE:	PROJECT #	FIGURE #
REVIEWED BY: TAB	04-04-2024	4357	2

Figure 3: Hydrograph of Pond & Nearby Wells

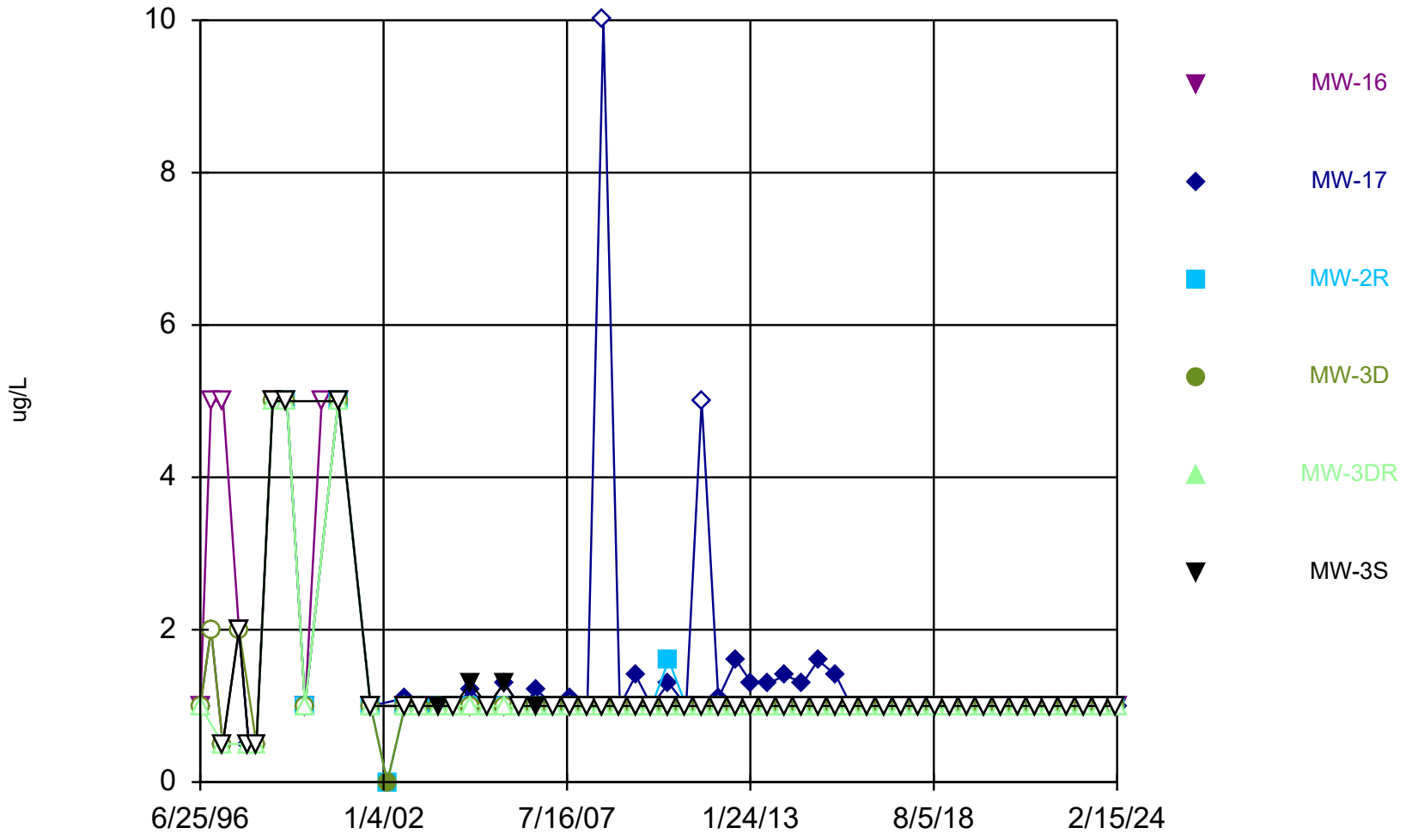
Parameter GW WaterLevel Units Ft. MSL



Only the highest value within a month is graphed.

Hollow symbols indicate censored values.

Figure 4: Time Series 1,4-Dichlorobenzene

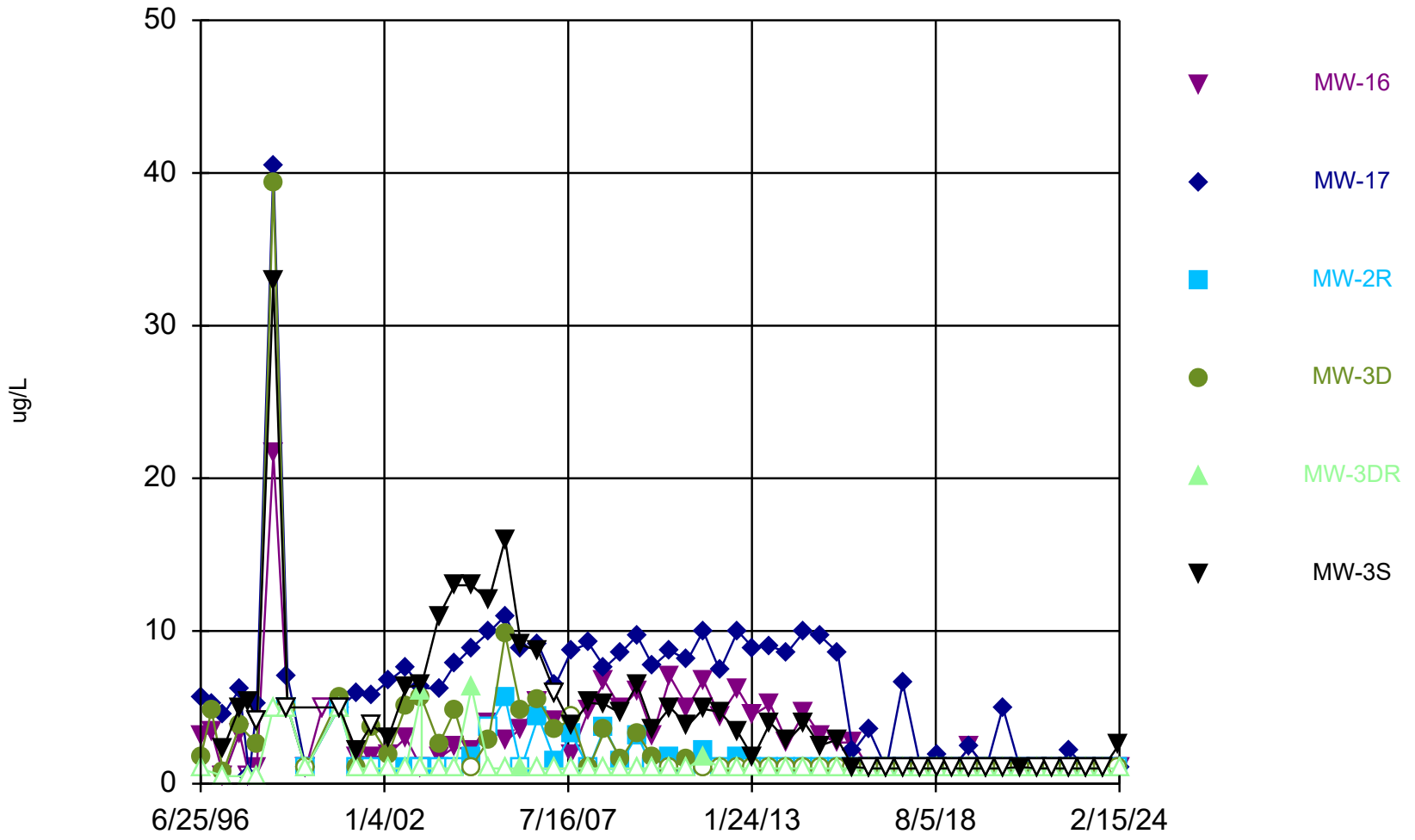


Constituent: 1,4-Dichlorobenzene Analysis Run 3/22/2024 3:58 PM View: VOC

Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Figure 5: Time Series for Benzene

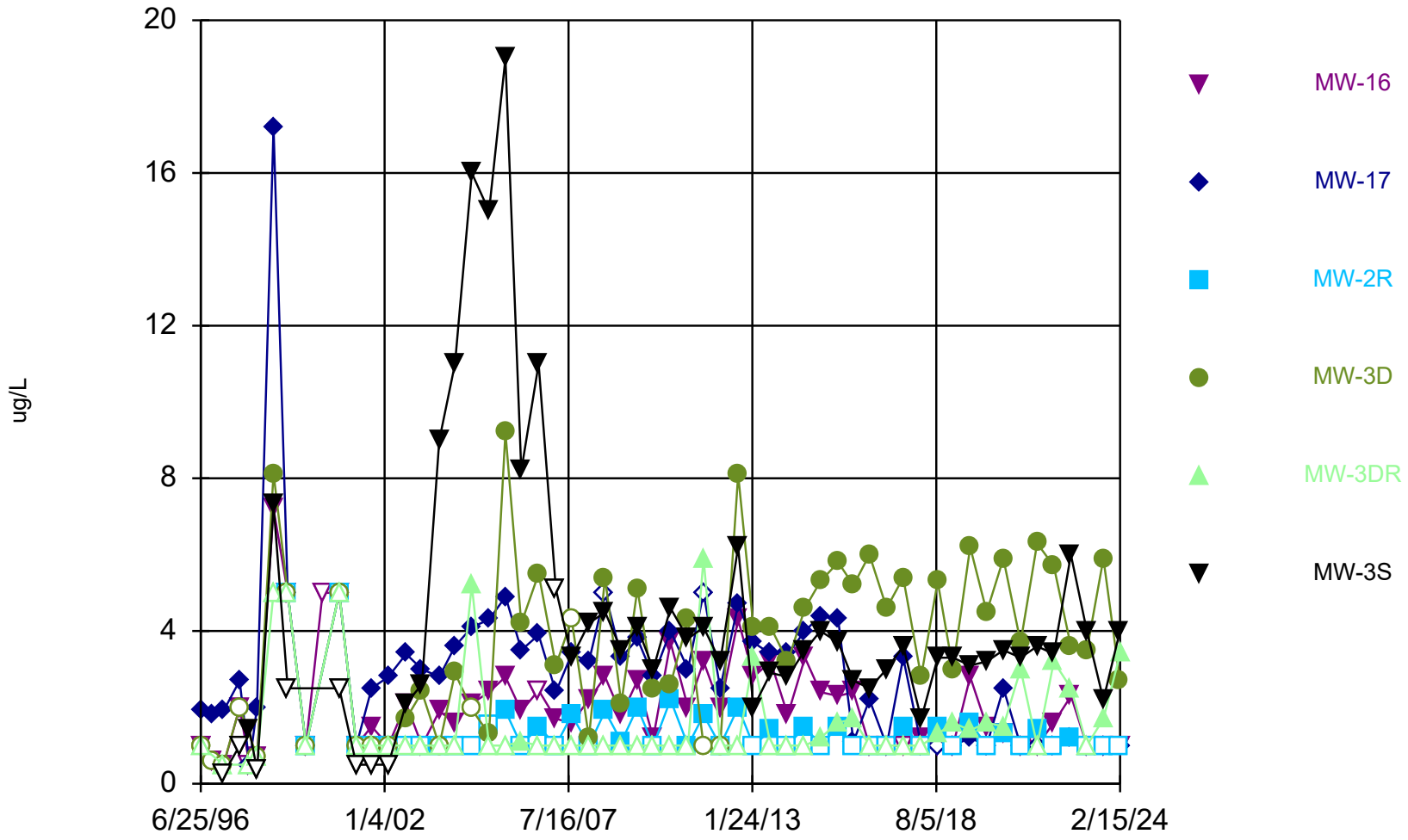


Constituent: Benzene Analysis Run 3/22/2024 4:03 PM View: VOC

Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Figure 6: Time Series for Chlorobenzene

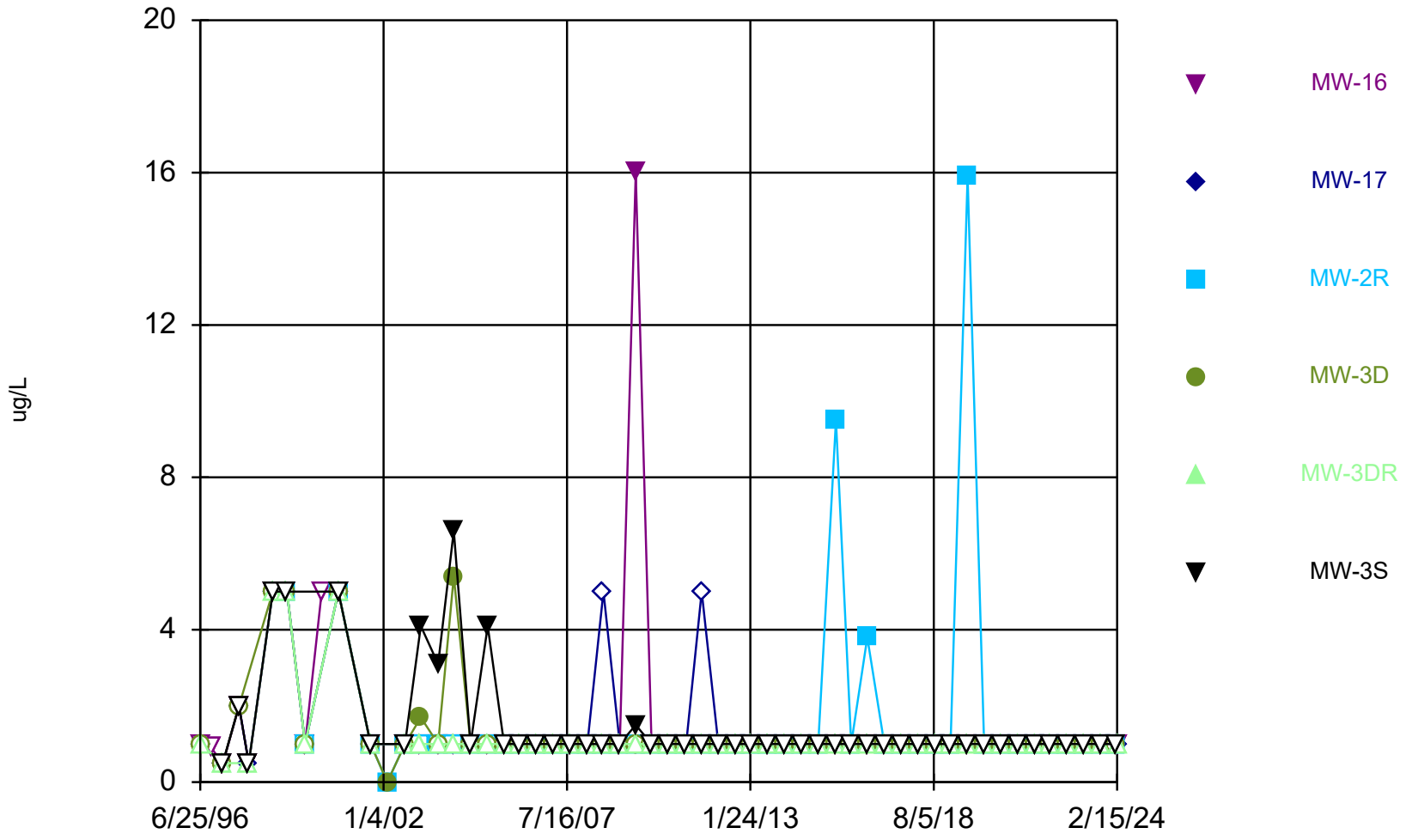


Constituent: Chlorobenzene Analysis Run 3/22/2024 4:06 PM View: VOC

Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Figure 7: Time Series for Total Toluene

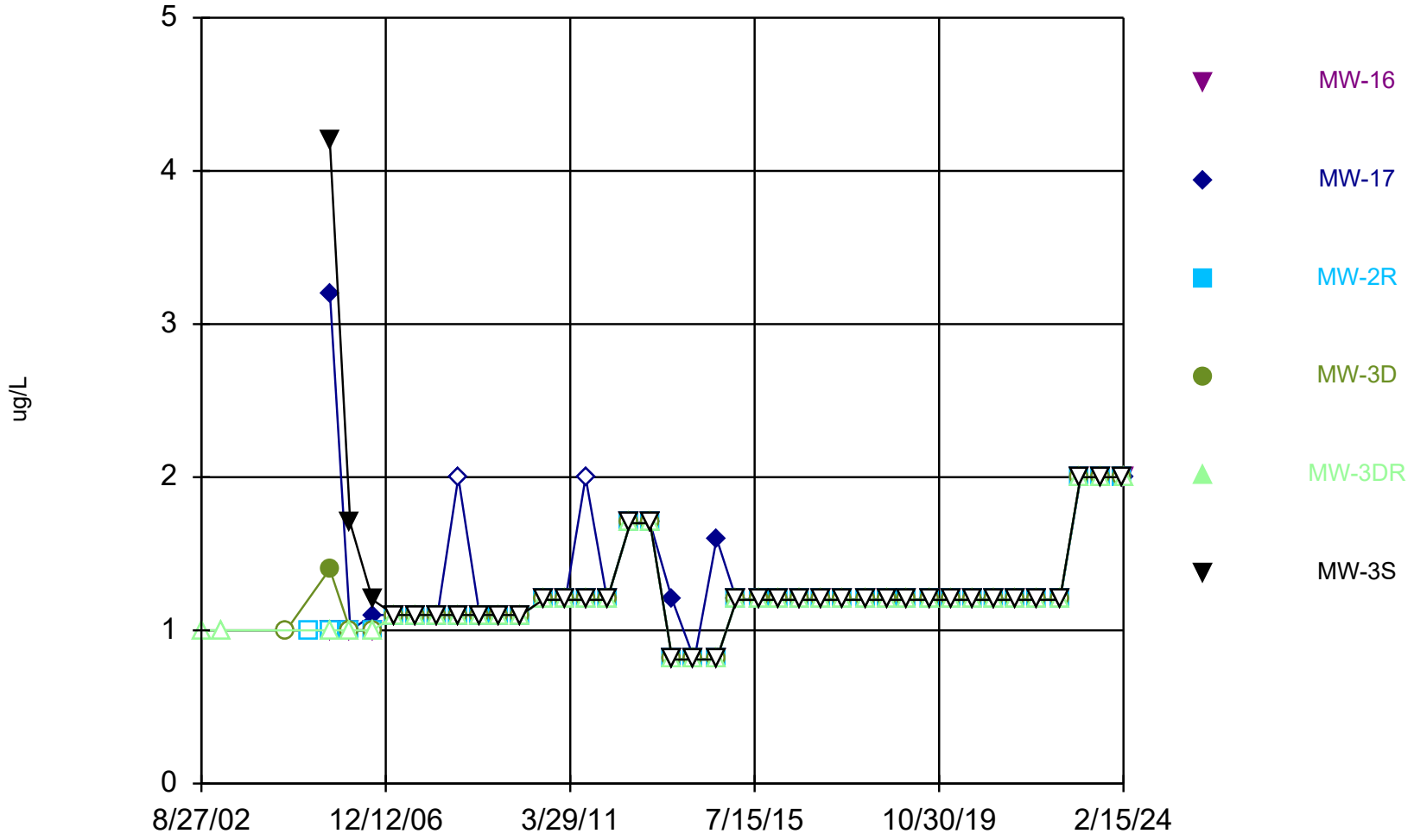


Constituent: Toluene Analysis Run 3/22/2024 4:10 PM View: VOC

Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Figure 8: Time Series for Total Xylenes



Constituent: Total Xylenes Analysis Run 3/22/2024 4:12 PM View: VOC

Wabash Valley LF Client: Republic Data: WV0810

APPENDIX 1

LABORATORY REPORTS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley Expanded
Pace Project No.: 50365968

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365968001	**MW-18**	Water	02/14/24 17:30	02/15/24 13:45
50365968002	**FILTER BLANK**	Water	02/15/24 11:45	02/15/24 13:45
50365968003	**FIELD BLANK**	Water	02/15/24 11:50	02/15/24 13:45
50365968004	**.**	Water	02/15/24 08:00	02/15/24 13:45

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365968001	**MW-18**	EPA 9056	KBB	3
		EPA 6010	ABH	12
		EPA 6010	JPK	10
		EPA 6020	DMT	5
		EPA 6020	MGM	13
		EPA 7470	EAE	1
		EPA 7470	ILP	1
		EPA 5030B/8260	ALA	62
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-S2-D	STS	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9012	ATS	1
		EPA 9066	ZM	1
50365968002	**FILTER BLANK**	EPA 6010	JPK	10
		EPA 6020	MGM	13
		EPA 7470	ILP	1
50365968003	**FIELD BLANK**	EPA 9056	KBB	3
		EPA 6010	ABH	12
		EPA 6020	DMT	5
		EPA 7470	EAE	1
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-S2-D	STS	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9012	ATS	1
		EPA 9066	ZM	1

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365968001	**MW-18**					
EPA 9056	Chloride	188	mg/L	2.5	02/23/24 18:13	
EPA 9056	Fluoride	0.29	mg/L	0.10	02/23/24 17:53	
EPA 9056	Sulfate	7.6	mg/L	0.25	02/23/24 17:53	
EPA 6010	Barium	967	ug/L	10.0	02/20/24 17:27	
EPA 6010	Lithium	15.9	ug/L	10.0	02/20/24 17:27	
EPA 6010	Calcium, Dissolved	147000	ug/L	500	02/22/24 23:34	
EPA 6010	Iron, Dissolved	7980	ug/L	100	02/22/24 23:34	
EPA 6010	Lithium, Dissolved	19.1	ug/L	10.0	02/22/24 23:34	
EPA 6010	Magnesium, Dissolved	43400	ug/L	500	02/22/24 23:34	
EPA 6010	Manganese, Dissolved	294	ug/L	10.0	02/22/24 23:34	
EPA 6010	Potassium, Dissolved	5900	ug/L	500	02/22/24 23:34	
EPA 6010	Sodium, Dissolved	60800	ug/L	500	02/22/24 23:34	
EPA 6020	Arsenic	31.0	ug/L	5.0	02/21/24 04:46	
EPA 6020	Arsenic, Dissolved	22.9	ug/L	1.0	02/21/24 17:48	
EPA 6020	Barium, Dissolved	989	ug/L	20.0	02/21/24 18:32	
EPA 6020	Cobalt, Dissolved	1.7	ug/L	1.0	02/21/24 17:48	
EPA 6020	Copper, Dissolved	1.7	ug/L	0.50	02/21/24 17:48	
EPA 6020	Nickel, Dissolved	9.7	ug/L	2.0	02/21/24 17:48	
SM 2320B	Alkalinity, Total as CaCO3	438	mg/L	10.0	02/19/24 21:30	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	438	mg/L	10.0	02/19/24 21:30	
SM 2540B	Total Solids	858	mg/L	20.0	02/16/24 10:47	
SM 2540C	Total Dissolved Solids	784	mg/L	10.0	02/21/24 08:49	
SM 4500-NH3 G	Nitrogen, Ammonia	0.80	mg/L	0.10	02/28/24 11:07	
50365968002	**FILTER BLANK**					
EPA 6020	Copper, Dissolved	3.0	ug/L	0.50	02/21/24 17:52	C0
50365968003	**FIELD BLANK**					
SM 2540C	Total Dissolved Solids	17	mg/L	10.0	02/21/24 08:57	PL

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: MW-18 **Lab ID: 50365968001** Collected: 02/14/24 17:30 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**188**	mg/L	2.5	10		02/23/24 18:13	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	1		02/23/24 17:53	16984-48-8	
Sulfate	**7.6**	mg/L	0.25	1		02/23/24 17:53	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 17:27	7440-36-0	
Barium	**967**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:27	7440-39-3	
Beryllium	ND	ug/L	4.0	1	02/20/24 08:14	02/20/24 17:27	7440-41-7	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:27	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:27	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:27	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:27	7439-92-1	
Lithium	**15.9**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:27	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:27	7440-02-0	
Silver	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:27	7440-22-4	
Tin	ND	ug/L	50.0	1	02/20/24 08:14	02/20/24 17:27	7440-31-5	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:27	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Beryllium, Dissolved	ND	ug/L	4.0	1	02/21/24 20:26	02/22/24 23:34	7440-41-7	
Cadmium, Dissolved	ND	ug/L	2.0	1	02/21/24 20:26	02/22/24 23:34	7440-43-9	
Calcium, Dissolved	**147000**	ug/L	500	1	02/21/24 20:26	02/22/24 23:34	7440-70-2	
Iron, Dissolved	**7980**	ug/L	100	1	02/21/24 20:26	02/22/24 23:34	7439-89-6	
Lithium, Dissolved	**19.1**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:34	7439-93-2	
Magnesium, Dissolved	**43400**	ug/L	500	1	02/21/24 20:26	02/22/24 23:34	7439-95-4	
Manganese, Dissolved	**294**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:34	7439-96-5	
Potassium, Dissolved	**5900**	ug/L	500	1	02/21/24 20:26	02/22/24 23:34	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:34	7440-22-4	
Sodium, Dissolved	**60800**	ug/L	500	1	02/21/24 20:26	02/22/24 23:34	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	**31.0**	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:46	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:46	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 04:46	7782-49-2	
Thallium	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 04:46	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 04:46	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:48	7440-36-0	
Arsenic, Dissolved	**22.9**	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:48	7440-38-2	
Barium, Dissolved	**989**	ug/L	20.0	10	02/20/24 09:45	02/21/24 18:32	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: MW-18 **Lab ID: 50365968001** Collected: 02/14/24 17:30 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 17:48	7440-47-3	
Cobalt, Dissolved	**1.7**	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:48	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	0.50	1	02/20/24 09:45	02/21/24 17:48	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 17:48	7439-92-1	
Nickel, Dissolved	**9.7**	ug/L	2.0	1	02/20/24 09:45	02/21/24 17:48	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:48	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:48	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:48	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:48	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:48	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 19:48	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/21/24 17:52	02/22/24 12:08	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	50.0	1		02/21/24 06:24	67-64-1	
Acetonitrile	ND	ug/L	50.0	1		02/21/24 06:24	75-05-8	
Acrolein	ND	ug/L	50.0	1		02/21/24 06:24	107-02-8	
Acrylonitrile	ND	ug/L	50.0	1		02/21/24 06:24	107-13-1	
Allyl chloride	ND	ug/L	5.0	1		02/21/24 06:24	107-05-1	
Benzene	ND	ug/L	1.0	1		02/21/24 06:24	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/21/24 06:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/24 06:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/24 06:24	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 06:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	1		02/21/24 06:24	78-93-3	
Carbon disulfide	ND	ug/L	50.0	1		02/21/24 06:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 06:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 06:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 06:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 06:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 06:24	74-87-3	
Chloroprene	ND	ug/L	5.0	1		02/21/24 06:24	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	1		02/21/24 06:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/24 06:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/21/24 06:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 06:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/24 06:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 06:24	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: MW-18 **Lab ID: 50365968001** Collected: 02/14/24 17:30 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/21/24 06:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/21/24 06:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 06:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 06:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 06:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 06:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 06:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 06:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/21/24 06:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/21/24 06:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/21/24 06:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 06:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 06:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 06:24	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		02/21/24 06:24	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/21/24 06:24	74-88-4	
Isobutanol	ND	ug/L	100	1		02/21/24 06:24	78-83-1	
Methacrylonitrile	ND	ug/L	5.0	1		02/21/24 06:24	126-98-7	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 06:24	75-09-2	
Methyl methacrylate	ND	ug/L	5.0	1		02/21/24 06:24	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	1		02/21/24 06:24	108-10-1	
Propionitrile	ND	ug/L	5.0	1		02/21/24 06:24	107-12-0	
Styrene	ND	ug/L	1.0	1		02/21/24 06:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 06:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 06:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 06:24	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 06:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 06:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 06:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 06:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 06:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/21/24 06:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		02/21/24 06:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 06:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 06:24	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%.	79-124	1		02/21/24 06:24	460-00-4	
Dibromofluoromethane (S)	98	%.	82-128	1		02/21/24 06:24	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 06:24	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**438**	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Bicarbonate (CaCO3)	**438**	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 21:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: MW-18 **Lab ID: 50365968001** Collected: 02/14/24 17:30 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**858**	mg/L	20.0	1		02/16/24 10:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**784**	mg/L	10.0	1		02/21/24 08:49		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	1.0	1		02/16/24 09:49	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 03:11	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.80**	mg/L	0.10	1		02/28/24 11:07	7664-41-7	
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012 Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.010	1	02/26/24 12:24	02/26/24 17:19	57-12-5	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/26/24 11:30	02/28/24 16:27	64743-03-9	

Sample: FILTER BLANK **Lab ID: 50365968002** Collected: 02/15/24 11:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Beryllium, Dissolved	ND	ug/L	4.0	1	02/21/24 20:26	02/22/24 23:36	7440-41-7	
Cadmium, Dissolved	ND	ug/L	2.0	1	02/21/24 20:26	02/22/24 23:36	7440-43-9	
Calcium, Dissolved	ND	ug/L	500	1	02/21/24 20:26	02/22/24 23:36	7440-70-2	
Iron, Dissolved	ND	ug/L	100	1	02/21/24 20:26	02/22/24 23:36	7439-89-6	
Lithium, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:36	7439-93-2	
Magnesium, Dissolved	ND	ug/L	500	1	02/21/24 20:26	02/22/24 23:36	7439-95-4	
Manganese, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:36	7439-96-5	
Potassium, Dissolved	ND	ug/L	500	1	02/21/24 20:26	02/22/24 23:36	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:36	7440-22-4	
Sodium, Dissolved	ND	ug/L	500	1	02/21/24 20:26	02/22/24 23:36	7440-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: FILTER BLANK **Lab ID: 50365968002** Collected: 02/15/24 11:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:52	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:52	7440-38-2	
Barium, Dissolved	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 17:52	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 17:52	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:52	7440-48-4	
Copper, Dissolved	**3.0**	ug/L	0.50	1	02/20/24 09:45	02/21/24 17:52	7440-50-8	C0
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 17:52	7439-92-1	
Nickel, Dissolved	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 17:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:52	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 17:52	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:52	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:52	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 17:52	7440-66-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/21/24 17:52	02/22/24 12:10	7439-97-6	

Sample: FIELD BLANK **Lab ID: 50365968003** Collected: 02/15/24 11:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		02/23/24 18:32	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/23/24 18:32	16984-48-8	
Sulfate	ND	mg/L	0.25	1		02/23/24 18:32	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:42	7440-36-0	
Barium	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:28	7440-39-3	
Beryllium	ND	ug/L	4.0	1	02/20/24 08:14	02/20/24 17:28	7440-41-7	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:28	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:28	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:28	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:28	7439-92-1	
Lithium	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:28	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:28	7440-02-0	
Silver	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:28	7440-22-4	
Tin	ND	ug/L	50.0	1	02/20/24 08:14	02/20/24 17:28	7440-31-5	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:28	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Sample: FIELD BLANK **Lab ID: 50365968003** Collected: 02/15/24 11:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:50	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:50	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 04:50	7782-49-2	
Thallium	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 04:50	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 04:50	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 19:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	ND	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 21:30		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	ND	mg/L	10.0	1		02/21/24 10:20		PL
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**17**	mg/L	10.0	1		02/21/24 08:57		PL
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	1.0	1		02/16/24 09:49	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 03:30	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/24 11:09	7664-41-7	
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012 Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.010	1	02/27/24 10:00	02/27/24 12:17	57-12-5	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:41	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 775813
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3551522 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 12:05	
Fluoride	mg/L	ND	0.10	02/23/24 12:05	
Sulfate	mg/L	ND	0.25	02/23/24 12:05	

LABORATORY CONTROL SAMPLE: 3551523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551524 3551525

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	92.0	25	25	114	114	88	89	80-120	0	15	
Fluoride	mg/L	0.37	1	1	1.3	1.3	97	96	80-120	1	15	
Sulfate	mg/L	ND	5	5	4.8	4.8	92	91	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776652
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3555044 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/22/24 19:09	

LABORATORY CONTROL SAMPLE: 3555045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555046 3555047

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.0	101	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776651
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968002

METHOD BLANK: 3555032 Matrix: Water
Associated Lab Samples: 50365968001, 50365968002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/22/24 11:51	

LABORATORY CONTROL SAMPLE: 3555033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555034 3555035

Parameter	Units	50365972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.8	94	97	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555036 3555037

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.5	93	90	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 775845
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3551685 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/20/24 22:32	
Barium	ug/L	ND	10.0	02/20/24 17:22	
Beryllium	ug/L	ND	4.0	02/20/24 17:22	
Cadmium	ug/L	ND	2.0	02/20/24 17:22	
Cobalt	ug/L	ND	10.0	02/20/24 17:22	
Copper	ug/L	ND	20.0	02/20/24 17:22	
Lead	ug/L	ND	5.0	02/20/24 17:22	
Lithium	ug/L	ND	10.0	02/20/24 17:22	
Nickel	ug/L	ND	10.0	02/20/24 17:22	
Silver	ug/L	ND	10.0	02/20/24 17:22	
Tin	ug/L	ND	50.0	02/20/24 17:22	
Zinc	ug/L	ND	20.0	02/20/24 17:22	

LABORATORY CONTROL SAMPLE: 3551686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Barium	ug/L	1000	980	98	80-120	
Beryllium	ug/L	1000	983	98	80-120	
Cadmium	ug/L	1000	977	98	80-120	
Cobalt	ug/L	1000	994	99	80-120	
Copper	ug/L	1000	965	97	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	996	100	80-120	
Silver	ug/L	500	484	97	80-120	
Tin	ug/L	1000	998	100	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	953	969	95	97	75-125	2	20	
Barium	ug/L	1310	1000	1000	2260	2280	95	97	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	992	1000	99	100	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	977	982	98	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	ug/L	ND	1000	1000	964	968	96	96	75-125	0	20	
Copper	ug/L	22.7	1000	1000	977	981	95	96	75-125	0	20	
Lead	ug/L	16.5	1000	1000	930	933	91	92	75-125	0	20	
Lithium	ug/L	27.2	1000	1000	1020	1030	99	101	75-125	2	20	
Nickel	ug/L	31.6	1000	1000	978	982	95	95	75-125	0	20	
Silver	ug/L	ND	500	500	485	488	97	98	75-125	0	20	
Tin	ug/L	ND	1000	1000	967	973	97	97	75-125	1	20	
Zinc	ug/L	62.4	1000	1000	1070	1070	101	101	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551689 3551690

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	
Barium	ug/L	743	1000	1000	1730	1720	99	98	75-125	0	20	
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	994	993	99	99	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	977	963	97	96	75-125	1	20	
Copper	ug/L	ND	1000	1000	961	962	96	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	928	925	93	92	75-125	0	20	
Lithium	ug/L	26.5	1000	1000	1030	1030	100	101	75-125	0	20	
Nickel	ug/L	13.1	1000	1000	981	977	97	96	75-125	0	20	
Silver	ug/L	ND	500	500	489	485	98	97	75-125	1	20	
Tin	ug/L	ND	1000	1000	995	981	99	98	75-125	1	20	
Zinc	ug/L	ND	1000	1000	1040	1040	104	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776455
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968002

METHOD BLANK: 3554264 Matrix: Water
Associated Lab Samples: 50365968001, 50365968002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	ND	4.0	02/22/24 23:10	
Cadmium, Dissolved	ug/L	ND	2.0	02/22/24 23:10	
Calcium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Iron, Dissolved	ug/L	ND	100	02/22/24 23:10	
Lithium, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Magnesium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Manganese, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Potassium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Silver, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Sodium, Dissolved	ug/L	ND	500	02/22/24 23:10	

LABORATORY CONTROL SAMPLE: 3554265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	1000	990	99	80-120	
Cadmium, Dissolved	ug/L	1000	964	96	80-120	
Calcium, Dissolved	ug/L	10000	9970	100	80-120	
Iron, Dissolved	ug/L	10000	9840	98	80-120	
Lithium, Dissolved	ug/L	1000	1010	101	80-120	
Magnesium, Dissolved	ug/L	10000	9780	98	80-120	
Manganese, Dissolved	ug/L	1000	987	99	80-120	
Potassium, Dissolved	ug/L	10000	9540	95	80-120	
Silver, Dissolved	ug/L	500	489	98	80-120	
Sodium, Dissolved	ug/L	10000	9420	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554266 3554267

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium, Dissolved	ug/L	ND	1000	1000	969	977	97	98	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	933	947	93	95	75-125	2	20	
Calcium, Dissolved	ug/L	102000	10000	10000	112000	113000	92	103	75-125	1	20	
Iron, Dissolved	ug/L	9070	10000	10000	18500	18700	94	96	75-125	1	20	
Lithium, Dissolved	ug/L	15.2	1000	1000	984	993	97	98	75-125	1	20	
Magnesium, Dissolved	ug/L	41900	10000	10000	50800	51200	88	92	75-125	1	20	
Manganese, Dissolved	ug/L	228	1000	1000	1170	1180	94	95	75-125	1	20	
Potassium, Dissolved	ug/L	5940	10000	10000	15300	15400	94	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554266 3554267

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silver, Dissolved	ug/L	ND	500	500	477	482	95	96	75-125	1	20	
Sodium, Dissolved	ug/L	41500	10000	10000	50900	51400	94	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776022
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3552722 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/21/24 04:40	
Chromium	ug/L	ND	5.0	02/21/24 04:40	
Selenium	ug/L	ND	1.0	02/21/24 04:40	
Thallium	ug/L	ND	2.0	02/21/24 04:40	
Vanadium	ug/L	ND	10.0	02/21/24 04:40	

LABORATORY CONTROL SAMPLE: 3552723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.1	95	80-120	
Chromium	ug/L	40	43.0	107	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Thallium	ug/L	40	42.1	105	80-120	
Vanadium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552724 3552725

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	92.3	40	40	125	125	81	82	75-125	0	20	
Chromium	ug/L	6.1	40	40	46.9	46.4	102	101	75-125	1	20	
Selenium	ug/L	ND	40	40	34.8	35.5	86	88	75-125	2	20	
Thallium	ug/L	ND	40	40	44.0	43.5	109	107	75-125	1	20	
Vanadium	ug/L	ND	40	40	49.8	49.7	105	104	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552726 3552727

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	11.0	40	40	48.3	47.4	93	91	75-125	2	20	
Chromium	ug/L	ND	40	40	40.3	40.4	99	100	75-125	0	20	
Selenium	ug/L	ND	40	40	38.0	38.3	95	96	75-125	1	20	
Thallium	ug/L	ND	40	40	44.1	44.2	108	109	75-125	0	20	
Vanadium	ug/L	ND	40	40	41.5	41.6	103	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968002

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365968001, 50365968002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Lead, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Selenium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Tin, Dissolved	ug/L	ND	4.0	02/21/24 17:35	N2
Vanadium, Dissolved	ug/L	ND	4.0	02/21/24 17:35	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.2	103	80-120	
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Barium, Dissolved	ug/L	40	40.4	101	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Cobalt, Dissolved	ug/L	40	41.4	103	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	
Lead, Dissolved	ug/L	40	41.8	105	80-120	
Nickel, Dissolved	ug/L	40	41.2	103	80-120	
Selenium, Dissolved	ug/L	40	39.8	100	80-120	
Thallium, Dissolved	ug/L	40	40.9	102	80-120	
Tin, Dissolved	ug/L	40	41.6	104	80-120	N2
Vanadium, Dissolved	ug/L	40	41.8	104	80-120	
Zinc, Dissolved	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	43.4	42.6	108	106	75-125	2	20	
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	1200	40	40	1220	1220	62	49	75-125	0	20	P6
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Cobalt, Dissolved	ug/L	2.1	40	40	40.7	39.9	96	95	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	
Lead, Dissolved	ug/L	ND	40	40	43.2	42.7	108	107	75-125	1	20	
Nickel, Dissolved	ug/L	10.6	40	40	48.8	48.9	95	96	75-125	0	20	
Selenium, Dissolved	ug/L	ND	40	40	39.6	39.3	99	98	75-125	1	20	
Thallium, Dissolved	ug/L	ND	40	40	43.1	42.8	107	106	75-125	1	20	
Tin, Dissolved	ug/L	ND	40	40	43.2	42.7	106	105	75-125	1	20	N2
Vanadium, Dissolved	ug/L	ND	40	40	43.2	42.3	108	105	75-125	2	20	
Zinc, Dissolved	ug/L	ND	40	40	38.7	38.8	92	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776492
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50365968001

METHOD BLANK: 3554410 Matrix: Water
Associated Lab Samples: 50365968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/24 04:26	
1,1-Dichloropropene	ug/L	ND	5.0	02/21/24 04:26	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/21/24 04:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	25.0	02/21/24 04:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/21/24 04:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/24 04:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/21/24 04:26	
1,3-Dichloropropane	ug/L	ND	5.0	02/21/24 04:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
2,2-Dichloropropane	ug/L	ND	5.0	02/21/24 04:26	
2-Butanone (MEK)	ug/L	ND	50.0	02/21/24 04:26	
2-Hexanone	ug/L	ND	50.0	02/21/24 04:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50.0	02/21/24 04:26	
Acetone	ug/L	ND	50.0	02/21/24 04:26	
Acetonitrile	ug/L	ND	50.0	02/21/24 04:26	
Acrolein	ug/L	ND	50.0	02/21/24 04:26	
Acrylonitrile	ug/L	ND	50.0	02/21/24 04:26	
Allyl chloride	ug/L	ND	5.0	02/21/24 04:26	
Benzene	ug/L	ND	1.0	02/21/24 04:26	
Bromochloromethane	ug/L	ND	5.0	02/21/24 04:26	
Bromodichloromethane	ug/L	ND	5.0	02/21/24 04:26	
Bromoform	ug/L	ND	5.0	02/21/24 04:26	
Bromomethane	ug/L	ND	2.0	02/21/24 04:26	
Carbon disulfide	ug/L	ND	50.0	02/21/24 04:26	
Carbon tetrachloride	ug/L	ND	1.0	02/21/24 04:26	
Chlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Chloroethane	ug/L	ND	1.0	02/21/24 04:26	
Chloroform	ug/L	ND	1.0	02/21/24 04:26	
Chloromethane	ug/L	ND	1.0	02/21/24 04:26	
Chloroprene	ug/L	ND	5.0	02/21/24 04:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Dibromochloromethane	ug/L	ND	5.0	02/21/24 04:26	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

METHOD BLANK: 3554410 Matrix: Water
Associated Lab Samples: 50365968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	02/21/24 04:26	
Ethylbenzene	ug/L	ND	1.0	02/21/24 04:26	
Iodomethane	ug/L	ND	5.0	02/21/24 04:26	
Isobutanol	ug/L	ND	100	02/21/24 04:26	
Methacrylonitrile	ug/L	ND	5.0	02/21/24 04:26	
Methyl methacrylate	ug/L	ND	5.0	02/21/24 04:26	
Methylene Chloride	ug/L	ND	3.0	02/21/24 04:26	
Propionitrile	ug/L	ND	5.0	02/21/24 04:26	
Styrene	ug/L	ND	1.0	02/21/24 04:26	
Tetrachloroethene	ug/L	ND	1.0	02/21/24 04:26	
Toluene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	02/21/24 04:26	
Trichloroethene	ug/L	ND	1.0	02/21/24 04:26	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/24 04:26	
Vinyl acetate	ug/L	ND	50.0	02/21/24 04:26	
Vinyl chloride	ug/L	ND	2.0	02/21/24 04:26	
Xylene (Total)	ug/L	ND	2.0	02/21/24 04:26	
4-Bromofluorobenzene (S)	%.	92	79-124	02/21/24 04:26	
Dibromofluoromethane (S)	%.	96	82-128	02/21/24 04:26	
Toluene-d8 (S)	%.	99	73-122	02/21/24 04:26	

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	81-130	
1,1,1-Trichloroethane	ug/L	50	45.3	91	76-127	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-126	
1,1,2-Trichloroethane	ug/L	50	47.9	96	79-124	
1,1-Dichloroethane	ug/L	50	46.3	93	76-123	
1,1-Dichloroethene	ug/L	50	47.7	95	73-133	
1,1-Dichloropropene	ug/L	50	48.9	98	78-144	
1,2,3-Trichloropropane	ug/L	50	47.8	96	75-121	
1,2-Dibromo-3-chloropropane	ug/L	50	51.8	104	81-133	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	80-126	
1,2-Dichlorobenzene	ug/L	50	48.5	97	79-123	
1,2-Dichloroethane	ug/L	50	44.0	88	70-124	
1,2-Dichloropropane	ug/L	50	46.1	92	74-128	
1,3-Dichlorobenzene	ug/L	50	48.4	97	77-124	
1,3-Dichloropropane	ug/L	50	47.7	95	77-126	
1,4-Dichlorobenzene	ug/L	50	48.2	96	77-120	
2,2-Dichloropropane	ug/L	50	33.0	66	65-136	
2-Butanone (MEK)	ug/L	250	247	99	59-134	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	250	224	90	63-134	
4-Methyl-2-pentanone (MIBK)	ug/L	250	229	92	67-133	
Acetone	ug/L	250	237	95	32-133	
Acetonitrile	ug/L	250	230	92	48-138	
Acrolein	ug/L	1000	976	98	35-166	
Acrylonitrile	ug/L	250	240	96	69-137	
Allyl chloride	ug/L	50	41.0	82	57-131	
Benzene	ug/L	50	47.0	94	74-124	
Bromochloromethane	ug/L	50	42.6	85	66-127	
Bromodichloromethane	ug/L	50	46.9	94	80-126	
Bromoform	ug/L	50	47.8	96	75-128	
Bromomethane	ug/L	50	38.8	78	10-183	
Carbon disulfide	ug/L	50	44.2J	88	68-123	
Carbon tetrachloride	ug/L	50	45.1	90	78-132	
Chlorobenzene	ug/L	50	48.8	98	77-121	
Chloroethane	ug/L	50	51.6	103	43-140	
Chloroform	ug/L	50	46.2	92	75-118	
Chloromethane	ug/L	50	41.7	83	45-130	
Chloroprene	ug/L	50	46.2	92	67-135	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	76-125	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	76-132	
Dibromochloromethane	ug/L	50	49.8	100	79-130	
Dichlorodifluoromethane	ug/L	50	39.0	78	10-124	
Ethylbenzene	ug/L	50	49.2	98	74-125	
Iodomethane	ug/L	50	25.1	50	10-160	
Isobutanol	ug/L	250	216	86	44-146	
Methacrylonitrile	ug/L	250	220	88	65-134	
Methyl methacrylate	ug/L	50	43.5	87	71-133	
Methylene Chloride	ug/L	50	47.5	95	77-126	
Propionitrile	ug/L	250	248	99	62-138	
Styrene	ug/L	50	49.2	98	81-129	
Tetrachloroethene	ug/L	50	49.5	99	73-132	
Toluene	ug/L	50	47.9	96	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	74-125	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	75-132	
trans-1,4-Dichloro-2-butene	ug/L	50	35.7	71	66-152	
Trichloroethene	ug/L	50	47.1	94	75-127	
Trichlorofluoromethane	ug/L	50	49.3	99	64-136	
Vinyl acetate	ug/L	200	231	115	62-159	
Vinyl chloride	ug/L	50	51.4	103	48-133	
Xylene (Total)	ug/L	150	145	97	73-123	
4-Bromofluorobenzene (S)	%.			94	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			99	73-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.3	95	60-150	
1,1,1-Trichloroethane	ug/L	ND	50	48.8	98	63-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.3	97	58-146	
1,1,2-Trichloroethane	ug/L	ND	50	48.3	97	63-142	
1,1-Dichloroethane	ug/L	ND	50	49.0	98	64-138	
1,1-Dichloroethene	ug/L	ND	50	51.7	103	65-139	
1,1-Dichloropropene	ug/L	ND	50	52.8	106	68-155	
1,2,3-Trichloropropane	ug/L	ND	50	49.5	99	54-144	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	51.3	103	48-144	
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.9	98	64-139	
1,2-Dichlorobenzene	ug/L	ND	50	49.9	100	50-136	
1,2-Dichloroethane	ug/L	ND	50	45.0	90	55-146	
1,2-Dichloropropane	ug/L	ND	50	47.0	94	66-134	
1,3-Dichlorobenzene	ug/L	ND	50	50.3	101	47-133	
1,3-Dichloropropane	ug/L	ND	50	47.8	96	61-144	
1,4-Dichlorobenzene	ug/L	ND	50	50.1	100	50-131	
2,2-Dichloropropane	ug/L	ND	50	35.2	70	33-146	
2-Butanone (MEK)	ug/L	ND	250	241	96	45-155	
2-Hexanone	ug/L	ND	250	218	87	48-157	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	225	90	53-156	
Acetone	ug/L	ND	250	227	91	16-162	
Acetonitrile	ug/L	ND	250	267	107	48-149	
Acrolein	ug/L	ND	1000	886	89	39-184	
Acrylonitrile	ug/L	ND	250	236	95	58-140	
Allyl chloride	ug/L	ND	50	44.1	88	51-149	
Benzene	ug/L	ND	50	49.2	98	65-137	
Bromochloromethane	ug/L	ND	50	43.9	88	56-139	
Bromodichloromethane	ug/L	ND	50	47.6	95	61-149	
Bromoform	ug/L	ND	50	48.3	97	51-138	
Bromomethane	ug/L	ND	50	45.7	91	10-169	
Carbon disulfide	ug/L	ND	50	45.9J	92	55-126	
Carbon tetrachloride	ug/L	ND	50	48.2	96	65-156	
Chlorobenzene	ug/L	ND	50	49.8	100	54-135	
Chloroethane	ug/L	ND	50	55.4	111	46-142	
Chloroform	ug/L	ND	50	47.9	96	64-133	
Chloromethane	ug/L	ND	50	45.5	91	30-139	
Chloroprene	ug/L	ND	50	49.1	98	68-154	
cis-1,2-Dichloroethene	ug/L	ND	50	50.5	101	59-141	
cis-1,3-Dichloropropene	ug/L	ND	50	45.1	90	57-141	
Dibromochloromethane	ug/L	ND	50	49.4	99	59-147	
Dichlorodifluoromethane	ug/L	ND	50	42.8	86	10-144	
Ethylbenzene	ug/L	ND	50	51.1	102	50-143	
Iodomethane	ug/L	ND	50	19.8	40	10-154	
Isobutanol	ug/L	ND	250	189	76	43-148	
Methacrylonitrile	ug/L	ND	250	218	87	60-155	
Methyl methacrylate	ug/L	ND	50	42.8	86	72-143	
Methylene Chloride	ug/L	ND	50	47.5	95	53-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Propionitrile	ug/L	ND	250	236	94	65-146	
Styrene	ug/L	ND	50	49.1	98	57-141	
Tetrachloroethene	ug/L	ND	50	52.6	105	43-149	
Toluene	ug/L	ND	50	49.3	99	57-137	
trans-1,2-Dichloroethene	ug/L	ND	50	49.3	99	63-133	
trans-1,3-Dichloropropene	ug/L	ND	50	42.2	84	56-140	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	36.8	74	36-169	
Trichloroethene	ug/L	ND	50	49.3	99	52-145	
Trichlorofluoromethane	ug/L	ND	50	54.7	109	52-144	
Vinyl acetate	ug/L	ND	200	183	91	27-179	
Vinyl chloride	ug/L	ND	50	56.5	113	43-139	
Xylene (Total)	ug/L	ND	150	151	100	52-137	
4-Bromofluorobenzene (S)	%.				94	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				98	73-122	

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,1-Dichloropropene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3-Dichlorobenzene	ug/L	ND	ND		20	
1,3-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2,2-Dichloropropane	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acetonitrile	ug/L	ND	ND		20	
Acrolein	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Allyl chloride	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
Chloroprene	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dichlorodifluoromethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isobutanol	ug/L	ND	ND		20	
Methacrylonitrile	ug/L	ND	ND		20	
Methyl methacrylate	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Propionitrile	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	92	93			
Dibromofluoromethane (S)	%.	96	97			
Toluene-d8 (S)	%.	98	98			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776262
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3553537 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/19/24 21:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/19/24 21:30	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/19/24 21:30	

LABORATORY CONTROL SAMPLE: 3553538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	54.6	109	90-110	

SAMPLE DUPLICATE: 3553539

Parameter	Units	50365828008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	426	431	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	426	431	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553540

Parameter	Units	50366036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253000 ug/L	256	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 775850
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776531
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968003

METHOD BLANK: 3554570 Matrix: Water
Associated Lab Samples: 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/21/24 10:17	

LABORATORY CONTROL SAMPLE: 3554571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3554572

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	875	869	1	10	

SAMPLE DUPLICATE: 3554573

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	1000	1080	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776532
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3554574 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:48	

LABORATORY CONTROL SAMPLE: 3554575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3554576

Parameter	Units	50365973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	859	855	0	10	

SAMPLE DUPLICATE: 3554577

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	850	851	0	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 775871
QC Batch Method: SM 4500-S2-D
Analysis Method: SM 4500-S2-D
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3551761 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	02/16/24 09:49	

LABORATORY CONTROL SAMPLE: 3551762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	.54J	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551763 3551764

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	.54J	.52J	101	98	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551765 3551766

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	2.1J	2.5	2.5	4.7J	4.6J	103	101	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 775841
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3551673 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 03:04	

LABORATORY CONTROL SAMPLE: 3551674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551675 3551676

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	105	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 777739
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001, 50365968003

METHOD BLANK: 3559702 Matrix: Water
Associated Lab Samples: 50365968001, 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 11:02	

LABORATORY CONTROL SAMPLE: 3559703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559704 3559705

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	3.2	5	5	8.0	8.0	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559706 3559707

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	4.9	10	10	14.9	14.9	101	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 777365
QC Batch Method: EPA 9012
Analysis Method: EPA 9012
Analysis Description: 9012 Cyanide, Total
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001

METHOD BLANK: 3558372 Matrix: Water
Associated Lab Samples: 50365968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	02/26/24 17:16	

LABORATORY CONTROL SAMPLE: 3558373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.095	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558374 3558375

Parameter	Units	50365968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.086	0.093	85	92	90-110	8	20	M0

MATRIX SPIKE SAMPLE: 3558376

Parameter	Units	50366005027 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	0.1	0.090	89	90-110	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 777506
QC Batch Method: EPA 9012
Analysis Method: EPA 9012
Analysis Description: 9012 Cyanide, Total
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968003

METHOD BLANK: 3558775 Matrix: Water
Associated Lab Samples: 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	02/27/24 13:07	

LABORATORY CONTROL SAMPLE: 3558776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.098	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558777 3558778

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.097	0.099	97	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558779 3558780

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.097	0.095	97	95	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 776310
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968003

METHOD BLANK: 3553688 Matrix: Water
Associated Lab Samples: 50365968003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/20/24 15:35	

LABORATORY CONTROL SAMPLE: 3553689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.055	110	90-110	L3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553690 3553691

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.25	0.25	0.29	0.28	112	107	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553692 3553693

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.094	0.054	183	104	90-110	53	20	M3,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Expanded
Pace Project No.: 50365968

QC Batch: 777340
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365968001

METHOD BLANK: 3558299 Matrix: Water
Associated Lab Samples: 50365968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/28/24 16:25	

LABORATORY CONTROL SAMPLE: 3558300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.051	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558301 3558302

Parameter	Units	50365968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.052	0.054	105	108	90-110	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley Expanded
Pace Project No.: 50365968

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

C0	Result confirmed by second analysis.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley Expanded
Pace Project No.: 50365968

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365968001	**MW-18**	EPA 9056	775813		
50365968003	**FIELD BLANK**	EPA 9056	775813		
50365968001	**MW-18**	EPA 3010	775845	EPA 6010	776475
50365968003	**FIELD BLANK**	EPA 3010	775845	EPA 6010	776475
50365968001	**MW-18**	EPA 3010	776455	EPA 6010	776995
50365968002	**FILTER BLANK**	EPA 3010	776455	EPA 6010	776995
50365968001	**MW-18**	EPA 200.2	776022	EPA 6020	776509
50365968003	**FIELD BLANK**	EPA 200.2	776022	EPA 6020	776509
50365968001	**MW-18**	EPA 200.2	776028	EPA 6020	776510
50365968002	**FILTER BLANK**	EPA 200.2	776028	EPA 6020	776510
50365968001	**MW-18**	EPA 7470	776652	EPA 7470	776955
50365968003	**FIELD BLANK**	EPA 7470	776652	EPA 7470	776955
50365968001	**MW-18**	EPA 7470	776651	EPA 7470	776795
50365968002	**FILTER BLANK**	EPA 7470	776651	EPA 7470	776795
50365968001	**MW-18**	EPA 5030B/8260	776492		
50365968001	**MW-18**	SM 2320B	776262		
50365968003	**FIELD BLANK**	SM 2320B	776262		
50365968001	**MW-18**	SM 2540B	775850		
50365968003	**FIELD BLANK**	SM 2540B	776531		
50365968001	**MW-18**	SM 2540C	776532		
50365968003	**FIELD BLANK**	SM 2540C	776532		
50365968001	**MW-18**	SM 4500-S2-D	775871		
50365968003	**FIELD BLANK**	SM 4500-S2-D	775871		
50365968001	**MW-18**	EPA 353.2	775841		
50365968003	**FIELD BLANK**	EPA 353.2	775841		
50365968001	**MW-18**	SM 4500-NH3 G	777739		
50365968003	**FIELD BLANK**	SM 4500-NH3 G	777739		
50365968001	**MW-18**	EPA 9012	777365	EPA 9012	777462
50365968003	**FIELD BLANK**	EPA 9012	777506	EPA 9012	777592
50365968001	**MW-18**	EPA 9066	777340	EPA 9066	777807
50365968003	**FIELD BLANK**	EPA 9066	776310	EPA 9066	776439

Pace

CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOC

WO# : 50365968

50365968

1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention:	AP
Address:	5154 East 65th Street	Copy To:		Company Name:	Republic Services
	Indianapolis, IN 46220			Address:	
Email:	[redacted]	Purchase Order #:		Pace Quote:	
Phone:	(317)752-3435 Fax:	Project Name:	Wabash Valley Expanded Assessment	Pace Project Manager:	[redacted]
Requested Due Date:		Project #:		Pace Profile #:	5235 / 1

Regulatory Agency	
State / Location	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	Cl, F, SO4 9056	Total Metals 6010/6020/ 747	Diss. Metals 6010/6020/7470	Nitrate 353.2, Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Total Phenolics 9066	Total Cyanide 9012	Sulfide 4500 S2D	Residual Chlorine (Y/N)	
1	MW-18	WT	G			2-14-24	530		12	3	2	2	3	1			1		X	X	X	X	X	X	X	X	X		001
2	FILTER BLANK	WT	G			2-15-24	1145		1			1										X							002
3	FIELD BLANK	WT	G			1	1150		8	3	2	1		1			1			X	X		X	X	X	X	X	X		003
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals 6010/6020/7470= Sb, Ba, Be, Cd, Co, cu, Pb, Ni, Ag, Zn, Sn, Li, V, Cr, As, Se, Tl, Hg	[signature]	2/15/24	1415	[signature] Pace	2/15/24	1345	0.5	Y	N	Y
Dissolved Metals 6010/6020/7470= Be, Cd, Fe, Mn, Ag, Ca, Mg, Na, K, Li, V, Cr, Co, Ni, Cu, Zn, As, Se, Sn, Sb, Ba, Tl, Pb, Hg										
Nitrate is a short hold										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Ryan Hutchison					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 2-15-24				

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMC

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE COMMENTS | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** Circle: **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate	/					
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1800			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)		/	
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?			
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3
2.5/2.4, 0.6/0.5 "Gill" added to line 4. TW 2/15/24

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3								1					2	1	1	1	1	1	1					W	✓	✓	✓	✓
2																				↓									↓			
3												1					2	1	1		1	1	1						✓	✓	✓	✓
4				3													↓		↓	1	↓								↓	↓		
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
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(317)228-3100

CERTIFICATIONS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365972001	**MW-24SAL**	Water	02/15/24 10:40	02/15/24 13:45
50365972002	**MW-9SRP**	Water	02/15/24 11:20	02/15/24 13:45
50365972003	**MW-31SRP**	Water	02/15/24 08:00	02/15/24 13:45
50365972004	**TRIP BLANK**	Water	02/15/24 08:00	02/15/24 13:45

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SAMPLE ANALYTE COUNT

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365972001	**MW-24SAL**	EPA 9056	KBB	3
		EPA 6010	ABH	12
		EPA 6010	JPK	10
		EPA 6020	DMT	5
		EPA 6020	MGM	13
		EPA 7470	EAE	1
		EPA 7470	ILP	1
		EPA 5030B/8260	TAY	62
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-S2-D	STS	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9012	ATS	1
		EPA 9066	ZM	1
50365972002	**MW-9SRP**	EPA 9056	KBB	3
		EPA 6010	ABH	12
		EPA 6010	JPK	10
		EPA 6020	DMT	5
		EPA 6020	MGM	13
		EPA 7470	EAE	1
		EPA 7470	ILP	1
		EPA 5030B/8260	TAY	62
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-S2-D	STS	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9012	ATS	1
		EPA 9066	ZM	1
50365972003	**MW-31SRP**	EPA 9056	KBB	3
		EPA 6010	ABH	12
		EPA 6010	JPK	10
		EPA 6020	DMT	5
		EPA 6020	MGM	13

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SAMPLE ANALYTE COUNT

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	EAE	1
		EPA 7470	ILP	1
		EPA 5030B/8260	TAY	62
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-S2-D	STS	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9012	ATS	1
		EPA 9066	ZM	1
50365972004	**TRIP BLANK**	EPA 5030B/8260	TAY	62

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365972001	**MW-24SAL**					
EPA 9056	Chloride	116	mg/L	2.5	02/23/24 20:09	
EPA 9056	Fluoride	0.33	mg/L	0.10	02/23/24 19:50	
EPA 9056	Sulfate	10.0	mg/L	0.25	02/23/24 19:50	
EPA 6010	Barium	882	ug/L	10.0	02/20/24 17:30	
EPA 6010	Lithium	27.2	ug/L	10.0	02/20/24 17:30	
EPA 6010	Nickel	15.8	ug/L	10.0	02/20/24 17:30	
EPA 6010	Calcium, Dissolved	138000	ug/L	500	02/22/24 23:37	
EPA 6010	Iron, Dissolved	7240	ug/L	100	02/22/24 23:37	
EPA 6010	Lithium, Dissolved	26.1	ug/L	10.0	02/22/24 23:37	
EPA 6010	Magnesium, Dissolved	40500	ug/L	500	02/22/24 23:37	
EPA 6010	Manganese, Dissolved	336	ug/L	10.0	02/22/24 23:37	
EPA 6010	Potassium, Dissolved	3360	ug/L	500	02/22/24 23:37	
EPA 6010	Sodium, Dissolved	52200	ug/L	500	02/22/24 23:37	
EPA 6020	Arsenic	200	ug/L	5.0	02/21/24 04:53	
EPA 6020	Arsenic, Dissolved	15.3	ug/L	1.0	02/21/24 18:02	
EPA 6020	Barium, Dissolved	719	ug/L	10.0	02/21/24 18:39	
EPA 6020	Cobalt, Dissolved	2.8	ug/L	1.0	02/21/24 18:02	
EPA 6020	Copper, Dissolved	0.56	ug/L	0.50	02/21/24 18:02	
EPA 6020	Nickel, Dissolved	12.2	ug/L	2.0	02/21/24 18:02	
EPA 6020	Zinc, Dissolved	5.5	ug/L	4.0	02/21/24 18:02	
SM 2320B	Alkalinity, Total as CaCO3	527	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	527	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	824	mg/L	10.0	02/21/24 10:22	
SM 2540C	Total Dissolved Solids	726	mg/L	10.0	02/21/24 08:57	
SM 4500-NH3 G	Nitrogen, Ammonia	0.55	mg/L	0.10	02/28/24 11:11	
50365972002	**MW-9SRP**					
EPA 9056	Chloride	92.0	mg/L	2.5	02/23/24 20:48	
EPA 9056	Fluoride	0.37	mg/L	0.10	02/23/24 20:28	
EPA 6010	Barium	1310	ug/L	10.0	02/20/24 17:34	
EPA 6010	Copper	22.7	ug/L	20.0	02/20/24 17:34	
EPA 6010	Lead	16.5	ug/L	5.0	02/20/24 17:34	
EPA 6010	Lithium	27.2	ug/L	10.0	02/20/24 17:34	
EPA 6010	Nickel	31.6	ug/L	10.0	02/20/24 17:34	
EPA 6010	Zinc	62.4	ug/L	20.0	02/20/24 17:34	
EPA 6010	Calcium, Dissolved	102000	ug/L	500	02/22/24 23:38	
EPA 6010	Iron, Dissolved	9070	ug/L	100	02/22/24 23:38	
EPA 6010	Lithium, Dissolved	15.2	ug/L	10.0	02/22/24 23:38	
EPA 6010	Magnesium, Dissolved	41900	ug/L	500	02/22/24 23:38	
EPA 6010	Manganese, Dissolved	228	ug/L	10.0	02/22/24 23:38	
EPA 6010	Potassium, Dissolved	5940	ug/L	500	02/22/24 23:38	
EPA 6010	Sodium, Dissolved	41500	ug/L	500	02/22/24 23:38	
EPA 6020	Arsenic	92.3	ug/L	5.0	02/21/24 05:03	
EPA 6020	Chromium	6.1	ug/L	5.0	02/21/24 05:03	
EPA 6020	Arsenic, Dissolved	85.9	ug/L	1.0	02/21/24 18:05	
EPA 6020	Barium, Dissolved	1200	ug/L	20.0	02/21/24 19:03	
EPA 6020	Cobalt, Dissolved	2.1	ug/L	1.0	02/21/24 18:05	
EPA 6020	Nickel, Dissolved	10.6	ug/L	2.0	02/21/24 18:05	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365972002	**MW-9SRP**					
SM 2320B	Alkalinity, Total as CaCO3	467	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	467	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	1000	mg/L	10.0	02/21/24 10:22	
SM 2540C	Total Dissolved Solids	524	mg/L	10.0	02/21/24 08:38	
SM 4500-NH3 G	Nitrogen, Ammonia	3.2	mg/L	0.10	02/28/24 11:18	
50365972003	**MW-31SRP**					
EPA 9056	Chloride	91.6	mg/L	2.5	02/23/24 22:44	
EPA 9056	Fluoride	0.36	mg/L	0.10	02/23/24 22:25	
EPA 6010	Barium	1240	ug/L	10.0	02/20/24 17:42	
EPA 6010	Lead	12.6	ug/L	5.0	02/20/24 17:42	
EPA 6010	Lithium	26.5	ug/L	10.0	02/20/24 17:42	
EPA 6010	Nickel	24.7	ug/L	10.0	02/20/24 17:42	
EPA 6010	Zinc	44.6	ug/L	20.0	02/20/24 17:42	
EPA 6010	Calcium, Dissolved	103000	ug/L	500	02/22/24 23:49	
EPA 6010	Iron, Dissolved	8840	ug/L	100	02/22/24 23:49	
EPA 6010	Lithium, Dissolved	16.4	ug/L	10.0	02/22/24 23:49	
EPA 6010	Magnesium, Dissolved	42100	ug/L	500	02/22/24 23:49	
EPA 6010	Manganese, Dissolved	196	ug/L	10.0	02/22/24 23:49	
EPA 6010	Potassium, Dissolved	6160	ug/L	500	02/22/24 23:49	
EPA 6010	Sodium, Dissolved	41700	ug/L	500	02/22/24 23:49	
EPA 6020	Arsenic	117	ug/L	5.0	02/21/24 05:13	
EPA 6020	Chromium	9.7	ug/L	5.0	02/21/24 05:13	
EPA 6020	Vanadium	12.1	ug/L	10.0	02/21/24 05:13	
EPA 6020	Arsenic, Dissolved	87.9	ug/L	1.0	02/21/24 18:22	
EPA 6020	Barium, Dissolved	1200	ug/L	20.0	02/21/24 18:42	
EPA 6020	Cobalt, Dissolved	2.1	ug/L	1.0	02/21/24 18:22	
EPA 6020	Copper, Dissolved	0.56	ug/L	0.50	02/21/24 18:22	
EPA 6020	Nickel, Dissolved	10.9	ug/L	2.0	02/21/24 18:22	
SM 2320B	Alkalinity, Total as CaCO3	488	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	488	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	1740	mg/L	10.0	02/21/24 10:22	
SM 2540C	Total Dissolved Solids	568	mg/L	10.0	02/21/24 08:38	
SM 4500-NH3 G	Nitrogen, Ammonia	2.9	mg/L	0.10	02/28/24 11:24	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-24SAL **Lab ID: 50365972001** Collected: 02/15/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**116**	mg/L	2.5	10		02/23/24 20:09	16887-00-6	
Fluoride	**0.33**	mg/L	0.10	1		02/23/24 19:50	16984-48-8	
Sulfate	**10.0**	mg/L	0.25	1		02/23/24 19:50	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 17:30	7440-36-0	
Barium	**882**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:30	7440-39-3	
Beryllium	ND	ug/L	4.0	1	02/20/24 08:14	02/20/24 17:30	7440-41-7	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:30	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:30	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:30	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:30	7439-92-1	
Lithium	**27.2**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:30	7439-93-2	
Nickel	**15.8**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:30	7440-02-0	
Silver	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:30	7440-22-4	
Tin	ND	ug/L	50.0	1	02/20/24 08:14	02/20/24 17:30	7440-31-5	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:30	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Beryllium, Dissolved	ND	ug/L	4.0	1	02/21/24 20:26	02/22/24 23:37	7440-41-7	
Cadmium, Dissolved	ND	ug/L	2.0	1	02/21/24 20:26	02/22/24 23:37	7440-43-9	
Calcium, Dissolved	**138000**	ug/L	500	1	02/21/24 20:26	02/22/24 23:37	7440-70-2	
Iron, Dissolved	**7240**	ug/L	100	1	02/21/24 20:26	02/22/24 23:37	7439-89-6	
Lithium, Dissolved	**26.1**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:37	7439-93-2	
Magnesium, Dissolved	**40500**	ug/L	500	1	02/21/24 20:26	02/22/24 23:37	7439-95-4	
Manganese, Dissolved	**336**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:37	7439-96-5	
Potassium, Dissolved	**3360**	ug/L	500	1	02/21/24 20:26	02/22/24 23:37	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:37	7440-22-4	
Sodium, Dissolved	**52200**	ug/L	500	1	02/21/24 20:26	02/22/24 23:37	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	**200**	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:53	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 04:53	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 04:53	7782-49-2	
Thallium	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 04:53	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 04:53	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:02	7440-36-0	
Arsenic, Dissolved	**15.3**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:02	7440-38-2	
Barium, Dissolved	**719**	ug/L	10.0	5	02/20/24 09:45	02/21/24 18:39	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-24SAL **Lab ID: 50365972001** Collected: 02/15/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 18:02	7440-47-3	
Cobalt, Dissolved	**2.8**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:02	7440-48-4	
Copper, Dissolved	**0.56**	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:02	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:02	7439-92-1	
Nickel, Dissolved	**12.2**	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:02	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:02	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:02	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:02	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:02	7440-62-2	
Zinc, Dissolved	**5.5**	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:02	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:01	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/21/24 17:52	02/22/24 12:13	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	50.0	1		02/21/24 19:37	67-64-1	
Acetonitrile	ND	ug/L	50.0	1		02/21/24 19:37	75-05-8	
Acrolein	ND	ug/L	50.0	1		02/21/24 19:37	107-02-8	
Acrylonitrile	ND	ug/L	50.0	1		02/21/24 19:37	107-13-1	
Allyl chloride	ND	ug/L	5.0	1		02/21/24 19:37	107-05-1	
Benzene	ND	ug/L	1.0	1		02/21/24 19:37	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/21/24 19:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/24 19:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/24 19:37	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 19:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	1		02/21/24 19:37	78-93-3	
Carbon disulfide	ND	ug/L	50.0	1		02/21/24 19:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 19:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 19:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 19:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 19:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 19:37	74-87-3	
Chloroprene	ND	ug/L	5.0	1		02/21/24 19:37	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	1		02/21/24 19:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/24 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/21/24 19:37	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 19:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/24 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 19:37	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-24SAL **Lab ID: 50365972001** Collected: 02/15/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/21/24 19:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/21/24 19:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 19:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/21/24 19:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/21/24 19:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/21/24 19:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 19:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 19:37	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		02/21/24 19:37	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/21/24 19:37	74-88-4	
Isobutanol	ND	ug/L	100	1		02/21/24 19:37	78-83-1	
Methacrylonitrile	ND	ug/L	5.0	1		02/21/24 19:37	126-98-7	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 19:37	75-09-2	
Methyl methacrylate	ND	ug/L	5.0	1		02/21/24 19:37	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	1		02/21/24 19:37	108-10-1	
Propionitrile	ND	ug/L	5.0	1		02/21/24 19:37	107-12-0	
Styrene	ND	ug/L	1.0	1		02/21/24 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 19:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 19:37	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 19:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 19:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 19:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/21/24 19:37	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		02/21/24 19:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 19:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 19:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%.	79-124	1		02/21/24 19:37	460-00-4	
Dibromofluoromethane (S)	94	%.	82-128	1		02/21/24 19:37	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/21/24 19:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**527**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**527**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-24SAL **Lab ID: 50365972001** Collected: 02/15/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**824**	mg/L	10.0	1		02/21/24 10:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**726**	mg/L	10.0	1		02/21/24 08:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	1.0	1		02/16/24 09:49	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 03:22	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.55**	mg/L	0.10	1		02/28/24 11:11	7664-41-7	
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012 Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.010	1	02/27/24 10:00	02/27/24 12:19	57-12-5	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.050	1	02/20/24 11:00	02/20/24 15:42	64743-03-9	D3

Sample: MW-9SRP **Lab ID: 50365972002** Collected: 02/15/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**92.0**	mg/L	2.5	10		02/23/24 20:48	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	1		02/23/24 20:28	16984-48-8	
Sulfate	ND	mg/L	0.25	1		02/23/24 20:28	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:44	7440-36-0	
Barium	**1310**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:34	7440-39-3	
Beryllium	ND	ug/L	4.0	1	02/20/24 08:14	02/20/24 17:34	7440-41-7	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:34	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:34	7440-48-4	
Copper	**22.7**	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:34	7440-50-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-9SRP **Lab ID: 50365972002** Collected: 02/15/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Lead	**16.5**	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:34	7439-92-1	
Lithium	**27.2**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:34	7439-93-2	
Nickel	**31.6**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:34	7440-02-0	
Silver	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:34	7440-22-4	
Tin	ND	ug/L	50.0	1	02/20/24 08:14	02/20/24 17:34	7440-31-5	
Zinc	**62.4**	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:34	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Beryllium, Dissolved	ND	ug/L	4.0	1	02/21/24 20:26	02/22/24 23:38	7440-41-7	
Cadmium, Dissolved	ND	ug/L	2.0	1	02/21/24 20:26	02/22/24 23:38	7440-43-9	
Calcium, Dissolved	**102000**	ug/L	500	1	02/21/24 20:26	02/22/24 23:38	7440-70-2	
Iron, Dissolved	**9070**	ug/L	100	1	02/21/24 20:26	02/22/24 23:38	7439-89-6	
Lithium, Dissolved	**15.2**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:38	7439-93-2	
Magnesium, Dissolved	**41900**	ug/L	500	1	02/21/24 20:26	02/22/24 23:38	7439-95-4	
Manganese, Dissolved	**228**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:38	7439-96-5	
Potassium, Dissolved	**5940**	ug/L	500	1	02/21/24 20:26	02/22/24 23:38	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:38	7440-22-4	
Sodium, Dissolved	**41500**	ug/L	500	1	02/21/24 20:26	02/22/24 23:38	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**92.3**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:03	7440-38-2	
Chromium	**6.1**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:03	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 05:03	7782-49-2	
Thallium	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 05:03	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 05:03	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:05	7440-36-0	
Arsenic, Dissolved	**85.9**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:05	7440-38-2	
Barium, Dissolved	**1200**	ug/L	20.0	10	02/20/24 09:45	02/21/24 19:03	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 18:05	7440-47-3	
Cobalt, Dissolved	**2.1**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:05	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:05	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:05	7439-92-1	
Nickel, Dissolved	**10.6**	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:05	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:05	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:05	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:05	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:05	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:05	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-9SRP **Lab ID: 50365972002** Collected: 02/15/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:03	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.24	1	02/21/24 17:52	02/22/24 12:20	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	50.0	1		02/21/24 20:37	67-64-1	R1
Acetonitrile	ND	ug/L	50.0	1		02/21/24 20:37	75-05-8	R1
Acrolein	ND	ug/L	50.0	1		02/21/24 20:37	107-02-8	R1
Acrylonitrile	ND	ug/L	50.0	1		02/21/24 20:37	107-13-1	R1
Allyl chloride	ND	ug/L	5.0	1		02/21/24 20:37	107-05-1	R1
Benzene	ND	ug/L	1.0	1		02/21/24 20:37	71-43-2	M1,R1
Bromochloromethane	ND	ug/L	5.0	1		02/21/24 20:37	74-97-5	R1
Bromodichloromethane	ND	ug/L	5.0	1		02/21/24 20:37	75-27-4	M1,R1
Bromoform	ND	ug/L	5.0	1		02/21/24 20:37	75-25-2	R1
Bromomethane	ND	ug/L	2.0	1		02/21/24 20:37	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	50.0	1		02/21/24 20:37	78-93-3	R1
Carbon disulfide	ND	ug/L	50.0	1		02/21/24 20:37	75-15-0	R1
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 20:37	56-23-5	M1,R1
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 20:37	108-90-7	R1
Chloroethane	ND	ug/L	1.0	1		02/21/24 20:37	75-00-3	M1,R1
Chloroform	ND	ug/L	1.0	1		02/21/24 20:37	67-66-3	M1,R1
Chloromethane	ND	ug/L	1.0	1		02/21/24 20:37	74-87-3	R1
Chloroprene	ND	ug/L	5.0	1		02/21/24 20:37	126-99-8	M1
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	1		02/21/24 20:37	96-12-8	R1
Dibromochloromethane	ND	ug/L	5.0	1		02/21/24 20:37	124-48-1	R1
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/21/24 20:37	106-93-4	R1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 20:37	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/24 20:37	541-73-1	R1
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 20:37	106-46-7	R1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/21/24 20:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/21/24 20:37	75-71-8	R1
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 20:37	75-34-3	M1,R1
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 20:37	107-06-2	M1,R1
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 20:37	75-35-4	M1,R1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 20:37	156-59-2	M1,R1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 20:37	156-60-5	M1,R1
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 20:37	78-87-5	M1,R1
1,3-Dichloropropane	ND	ug/L	5.0	1		02/21/24 20:37	142-28-9	R1
2,2-Dichloropropane	ND	ug/L	5.0	1		02/21/24 20:37	594-20-7	R1
1,1-Dichloropropene	ND	ug/L	5.0	1		02/21/24 20:37	563-58-6	M1,R1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 20:37	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 20:37	10061-02-6	R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-9SRP **Lab ID: 50365972002** Collected: 02/15/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 20:37	100-41-4	R1
2-Hexanone	ND	ug/L	50.0	1		02/21/24 20:37	591-78-6	R1
Iodomethane	ND	ug/L	5.0	1		02/21/24 20:37	74-88-4	R1
Isobutanol	ND	ug/L	100	1		02/21/24 20:37	78-83-1	R1
Methacrylonitrile	ND	ug/L	5.0	1		02/21/24 20:37	126-98-7	R1
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 20:37	75-09-2	R1
Methyl methacrylate	ND	ug/L	5.0	1		02/21/24 20:37	80-62-6	M1,R1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	1		02/21/24 20:37	108-10-1	R1
Propionitrile	ND	ug/L	5.0	1		02/21/24 20:37	107-12-0	R1
Styrene	ND	ug/L	1.0	1		02/21/24 20:37	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 20:37	630-20-6	M1,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 20:37	79-34-5	R1
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 20:37	127-18-4	R1
Toluene	ND	ug/L	1.0	1		02/21/24 20:37	108-88-3	R1
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 20:37	71-55-6	M1,R1
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 20:37	79-00-5	R1
Trichloroethene	ND	ug/L	1.0	1		02/21/24 20:37	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 20:37	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/21/24 20:37	96-18-4	R1
Vinyl acetate	ND	ug/L	50.0	1		02/21/24 20:37	108-05-4	R1
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 20:37	75-01-4	R1
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 20:37	1330-20-7	RS
Surrogates								
4-Bromofluorobenzene (S)	99	%.	79-124	1		02/21/24 20:37	460-00-4	
Dibromofluoromethane (S)	93	%.	82-128	1		02/21/24 20:37	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/21/24 20:37	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**467**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**467**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1000**	mg/L	10.0	1		02/21/24 10:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**524**	mg/L	10.0	1		02/21/24 08:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
	Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	1.0	1		02/16/24 09:49	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-9SRP **Lab ID: 50365972002** Collected: 02/15/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 03:24	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**3.2**	mg/L	0.10	1		02/28/24 11:18	7664-41-7	
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012 Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.010	1	02/27/24 10:00	02/27/24 12:20	57-12-5	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.050	1	02/20/24 11:00	02/20/24 15:44	64743-03-9	D3

Sample: MW-31SRP **Lab ID: 50365972003** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**91.6**	mg/L	2.5	10		02/23/24 22:44	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	1		02/23/24 22:25	16984-48-8	
Sulfate	ND	mg/L	0.25	1		02/23/24 22:25	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:52	7440-36-0	
Barium	**1240**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:42	7440-39-3	
Beryllium	ND	ug/L	4.0	1	02/20/24 08:14	02/20/24 17:42	7440-41-7	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:42	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:42	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:42	7440-50-8	
Lead	**12.6**	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:42	7439-92-1	
Lithium	**26.5**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:42	7439-93-2	
Nickel	**24.7**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:42	7440-02-0	
Silver	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:42	7440-22-4	
Tin	ND	ug/L	50.0	1	02/20/24 08:14	02/20/24 17:42	7440-31-5	
Zinc	**44.6**	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:42	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Beryllium, Dissolved	ND	ug/L	4.0	1	02/21/24 20:26	02/22/24 23:49	7440-41-7	
Cadmium, Dissolved	ND	ug/L	2.0	1	02/21/24 20:26	02/22/24 23:49	7440-43-9	
Calcium, Dissolved	**103000**	ug/L	500	1	02/21/24 20:26	02/22/24 23:49	7440-70-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-31SRP **Lab ID: 50365972003** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Iron, Dissolved	**8840**	ug/L	100	1	02/21/24 20:26	02/22/24 23:49	7439-89-6	
Lithium, Dissolved	**16.4**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:49	7439-93-2	
Magnesium, Dissolved	**42100**	ug/L	500	1	02/21/24 20:26	02/22/24 23:49	7439-95-4	
Manganese, Dissolved	**196**	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:49	7439-96-5	
Potassium, Dissolved	**6160**	ug/L	500	1	02/21/24 20:26	02/22/24 23:49	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/21/24 20:26	02/22/24 23:49	7440-22-4	
Sodium, Dissolved	**41700**	ug/L	500	1	02/21/24 20:26	02/22/24 23:49	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**117**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:13	7440-38-2	
Chromium	**9.7**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:13	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 05:13	7782-49-2	
Thallium	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 05:13	7440-28-0	
Vanadium	**12.1**	ug/L	10.0	1	02/20/24 09:45	02/21/24 05:13	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:22	7440-36-0	
Arsenic, Dissolved	**87.9**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:22	7440-38-2	
Barium, Dissolved	**1200**	ug/L	20.0	10	02/20/24 09:45	02/21/24 18:42	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 18:22	7440-47-3	
Cobalt, Dissolved	**2.1**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:22	7440-48-4	
Copper, Dissolved	**0.56**	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:22	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:22	7439-92-1	
Nickel, Dissolved	**10.9**	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:22	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:22	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:22	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:22	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:22	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:22	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:10	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/21/24 17:52	02/22/24 12:30	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	50.0	1		02/21/24 20:07	67-64-1	
Acetonitrile	ND	ug/L	50.0	1		02/21/24 20:07	75-05-8	
Acrolein	ND	ug/L	50.0	1		02/21/24 20:07	107-02-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-31SRP **Lab ID: 50365972003** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acrylonitrile	ND	ug/L	50.0	1		02/21/24 20:07	107-13-1	
Allyl chloride	ND	ug/L	5.0	1		02/21/24 20:07	107-05-1	
Benzene	ND	ug/L	1.0	1		02/21/24 20:07	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/21/24 20:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/21/24 20:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/21/24 20:07	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 20:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	1		02/21/24 20:07	78-93-3	
Carbon disulfide	ND	ug/L	50.0	1		02/21/24 20:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 20:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 20:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 20:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 20:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 20:07	74-87-3	
Chloroprene	ND	ug/L	5.0	1		02/21/24 20:07	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	1		02/21/24 20:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/21/24 20:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/21/24 20:07	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/21/24 20:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 20:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/21/24 20:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/21/24 20:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 20:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 20:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 20:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 20:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 20:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 20:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/21/24 20:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/21/24 20:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/21/24 20:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 20:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 20:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 20:07	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		02/21/24 20:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/21/24 20:07	74-88-4	
Isobutanol	ND	ug/L	100	1		02/21/24 20:07	78-83-1	
Methacrylonitrile	ND	ug/L	5.0	1		02/21/24 20:07	126-98-7	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 20:07	75-09-2	
Methyl methacrylate	ND	ug/L	5.0	1		02/21/24 20:07	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	1		02/21/24 20:07	108-10-1	
Propionitrile	ND	ug/L	5.0	1		02/21/24 20:07	107-12-0	
Styrene	ND	ug/L	1.0	1		02/21/24 20:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 20:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 20:07	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-31SRP **Lab ID: 50365972003** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 20:07	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 20:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 20:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 20:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 20:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 20:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/21/24 20:07	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		02/21/24 20:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 20:07	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 20:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%.	79-124	1		02/21/24 20:07	460-00-4	
Dibromofluoromethane (S)	94	%.	82-128	1		02/21/24 20:07	1868-53-7	
Toluene-d8 (S)	106	%.	73-122	1		02/21/24 20:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**488**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**488**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**1740**	mg/L	10.0	1		02/21/24 10:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**568**	mg/L	10.0	1		02/21/24 08:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D Pace Analytical Services - Indianapolis							
Sulfide	ND	mg/L	1.0	1		02/16/24 09:49	18496-25-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 03:17	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**2.9**	mg/L	0.10	1		02/28/24 11:24	7664-41-7	
9012 Cyanide, Total	Analytical Method: EPA 9012 Preparation Method: EPA 9012 Pace Analytical Services - Indianapolis							
Cyanide	ND	mg/L	0.010	1	02/27/24 10:00	02/27/24 12:24	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: MW-31SRP **Lab ID: 50365972003** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.050	1	02/20/24 11:00	02/20/24 15:50	64743-03-9	D3

Sample: TRIP BLANK **Lab ID: 50365972004** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	50.0	1		02/22/24 14:06	67-64-1	
Acetonitrile	ND	ug/L	50.0	1		02/22/24 14:06	75-05-8	
Acrolein	ND	ug/L	50.0	1		02/22/24 14:06	107-02-8	
Acrylonitrile	ND	ug/L	50.0	1		02/22/24 14:06	107-13-1	
Allyl chloride	ND	ug/L	5.0	1		02/22/24 14:06	107-05-1	
Benzene	ND	ug/L	1.0	1		02/22/24 14:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/22/24 14:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/24 14:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/24 14:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 14:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	1		02/22/24 14:06	78-93-3	
Carbon disulfide	ND	ug/L	50.0	1		02/22/24 14:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 14:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 14:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/24 14:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 14:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 14:06	74-87-3	
Chloroprene	ND	ug/L	5.0	1		02/22/24 14:06	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	1		02/22/24 14:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/24 14:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/24 14:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 14:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/24 14:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 14:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/22/24 14:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/24 14:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 14:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 14:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 14:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 14:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 14:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 14:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/24 14:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/24 14:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/24 14:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 14:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 14:06	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Sample: TRIP BLANK **Lab ID: 50365972004** Collected: 02/15/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 14:06	100-41-4	
2-Hexanone	ND	ug/L	50.0	1		02/22/24 14:06	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/22/24 14:06	74-88-4	
Isobutanol	ND	ug/L	100	1		02/22/24 14:06	78-83-1	
Methacrylonitrile	ND	ug/L	5.0	1		02/22/24 14:06	126-98-7	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 14:06	75-09-2	
Methyl methacrylate	ND	ug/L	5.0	1		02/22/24 14:06	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	1		02/22/24 14:06	108-10-1	
Propionitrile	ND	ug/L	5.0	1		02/22/24 14:06	107-12-0	
Styrene	ND	ug/L	1.0	1		02/22/24 14:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 14:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 14:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 14:06	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 14:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 14:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 14:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 14:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 14:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/24 14:06	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		02/22/24 14:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 14:06	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 14:06	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%.	79-124	1		02/22/24 14:06	460-00-4	
Dibromofluoromethane (S)	93	%.	82-128	1		02/22/24 14:06	1868-53-7	
Toluene-d8 (S)	106	%.	73-122	1		02/22/24 14:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 775813
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3551522 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 12:05	
Fluoride	mg/L	ND	0.10	02/23/24 12:05	
Sulfate	mg/L	ND	0.25	02/23/24 12:05	

LABORATORY CONTROL SAMPLE: 3551523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551524 3551525

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	92.0	25	25	114	114	88	89	80-120	0	15	
Fluoride	mg/L	0.37	1	1	1.3	1.3	97	96	80-120	1	15	
Sulfate	mg/L	ND	5	5	4.8	4.8	92	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776652
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3555044 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/22/24 19:09	

LABORATORY CONTROL SAMPLE: 3555045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555046 3555047

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.0	101	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776651
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3555032 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/22/24 11:51	

LABORATORY CONTROL SAMPLE: 3555033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555034 3555035

Parameter	Units	50365972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.8	94	97	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555036 3555037

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.5	93	90	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 775845
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3551685 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/20/24 22:32	
Barium	ug/L	ND	10.0	02/20/24 17:22	
Beryllium	ug/L	ND	4.0	02/20/24 17:22	
Cadmium	ug/L	ND	2.0	02/20/24 17:22	
Cobalt	ug/L	ND	10.0	02/20/24 17:22	
Copper	ug/L	ND	20.0	02/20/24 17:22	
Lead	ug/L	ND	5.0	02/20/24 17:22	
Lithium	ug/L	ND	10.0	02/20/24 17:22	
Nickel	ug/L	ND	10.0	02/20/24 17:22	
Silver	ug/L	ND	10.0	02/20/24 17:22	
Tin	ug/L	ND	50.0	02/20/24 17:22	
Zinc	ug/L	ND	20.0	02/20/24 17:22	

LABORATORY CONTROL SAMPLE: 3551686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Barium	ug/L	1000	980	98	80-120	
Beryllium	ug/L	1000	983	98	80-120	
Cadmium	ug/L	1000	977	98	80-120	
Cobalt	ug/L	1000	994	99	80-120	
Copper	ug/L	1000	965	97	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	996	100	80-120	
Silver	ug/L	500	484	97	80-120	
Tin	ug/L	1000	998	100	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	953	969	95	97	75-125	2	20	
Barium	ug/L	1310	1000	1000	2260	2280	95	97	75-125	1	20	
Beryllium	ug/L	ND	1000	1000	992	1000	99	100	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	977	982	98	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	ug/L	ND	1000	1000	964	968	96	96	75-125	0	20	
Copper	ug/L	22.7	1000	1000	977	981	95	96	75-125	0	20	
Lead	ug/L	16.5	1000	1000	930	933	91	92	75-125	0	20	
Lithium	ug/L	27.2	1000	1000	1020	1030	99	101	75-125	2	20	
Nickel	ug/L	31.6	1000	1000	978	982	95	95	75-125	0	20	
Silver	ug/L	ND	500	500	485	488	97	98	75-125	0	20	
Tin	ug/L	ND	1000	1000	967	973	97	97	75-125	1	20	
Zinc	ug/L	62.4	1000	1000	1070	1070	101	101	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551689 3551690

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	
Barium	ug/L	743	1000	1000	1730	1720	99	98	75-125	0	20	
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	994	993	99	99	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	977	963	97	96	75-125	1	20	
Copper	ug/L	ND	1000	1000	961	962	96	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	928	925	93	92	75-125	0	20	
Lithium	ug/L	26.5	1000	1000	1030	1030	100	101	75-125	0	20	
Nickel	ug/L	13.1	1000	1000	981	977	97	96	75-125	0	20	
Silver	ug/L	ND	500	500	489	485	98	97	75-125	1	20	
Tin	ug/L	ND	1000	1000	995	981	99	98	75-125	1	20	
Zinc	ug/L	ND	1000	1000	1040	1040	104	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776455
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3554264 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium, Dissolved	ug/L	ND	4.0	02/22/24 23:10	
Cadmium, Dissolved	ug/L	ND	2.0	02/22/24 23:10	
Calcium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Iron, Dissolved	ug/L	ND	100	02/22/24 23:10	
Lithium, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Magnesium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Manganese, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Potassium, Dissolved	ug/L	ND	500	02/22/24 23:10	
Silver, Dissolved	ug/L	ND	10.0	02/22/24 23:10	
Sodium, Dissolved	ug/L	ND	500	02/22/24 23:10	

LABORATORY CONTROL SAMPLE: 3554265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium, Dissolved	ug/L	1000	990	99	80-120	
Cadmium, Dissolved	ug/L	1000	964	96	80-120	
Calcium, Dissolved	ug/L	10000	9970	100	80-120	
Iron, Dissolved	ug/L	10000	9840	98	80-120	
Lithium, Dissolved	ug/L	1000	1010	101	80-120	
Magnesium, Dissolved	ug/L	10000	9780	98	80-120	
Manganese, Dissolved	ug/L	1000	987	99	80-120	
Potassium, Dissolved	ug/L	10000	9540	95	80-120	
Silver, Dissolved	ug/L	500	489	98	80-120	
Sodium, Dissolved	ug/L	10000	9420	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554266 3554267

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium, Dissolved	ug/L	ND	1000	1000	969	977	97	98	75-125	1	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	933	947	93	95	75-125	2	20	
Calcium, Dissolved	ug/L	102000	10000	10000	112000	113000	92	103	75-125	1	20	
Iron, Dissolved	ug/L	9070	10000	10000	18500	18700	94	96	75-125	1	20	
Lithium, Dissolved	ug/L	15.2	1000	1000	984	993	97	98	75-125	1	20	
Magnesium, Dissolved	ug/L	41900	10000	10000	50800	51200	88	92	75-125	1	20	
Manganese, Dissolved	ug/L	228	1000	1000	1170	1180	94	95	75-125	1	20	
Potassium, Dissolved	ug/L	5940	10000	10000	15300	15400	94	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554266 3554267

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Silver, Dissolved	ug/L	ND	500	500	477	482	95	96	75-125	1	20	
Sodium, Dissolved	ug/L	41500	10000	10000	50900	51400	94	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776022
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3552722 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/21/24 04:40	
Chromium	ug/L	ND	5.0	02/21/24 04:40	
Selenium	ug/L	ND	1.0	02/21/24 04:40	
Thallium	ug/L	ND	2.0	02/21/24 04:40	
Vanadium	ug/L	ND	10.0	02/21/24 04:40	

LABORATORY CONTROL SAMPLE: 3552723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.1	95	80-120	
Chromium	ug/L	40	43.0	107	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Thallium	ug/L	40	42.1	105	80-120	
Vanadium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552724 3552725

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	92.3	40	40	125	125	81	82	75-125	0	20	
Chromium	ug/L	6.1	40	40	46.9	46.4	102	101	75-125	1	20	
Selenium	ug/L	ND	40	40	34.8	35.5	86	88	75-125	2	20	
Thallium	ug/L	ND	40	40	44.0	43.5	109	107	75-125	1	20	
Vanadium	ug/L	ND	40	40	49.8	49.7	105	104	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552726 3552727

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	11.0	40	40	48.3	47.4	93	91	75-125	2	20	
Chromium	ug/L	ND	40	40	40.3	40.4	99	100	75-125	0	20	
Selenium	ug/L	ND	40	40	38.0	38.3	95	96	75-125	1	20	
Thallium	ug/L	ND	40	40	44.1	44.2	108	109	75-125	0	20	
Vanadium	ug/L	ND	40	40	41.5	41.6	103	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Lead, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Selenium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Tin, Dissolved	ug/L	ND	4.0	02/21/24 17:35	N2
Vanadium, Dissolved	ug/L	ND	4.0	02/21/24 17:35	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.2	103	80-120	
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Barium, Dissolved	ug/L	40	40.4	101	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Cobalt, Dissolved	ug/L	40	41.4	103	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	
Lead, Dissolved	ug/L	40	41.8	105	80-120	
Nickel, Dissolved	ug/L	40	41.2	103	80-120	
Selenium, Dissolved	ug/L	40	39.8	100	80-120	
Thallium, Dissolved	ug/L	40	40.9	102	80-120	
Tin, Dissolved	ug/L	40	41.6	104	80-120	N2
Vanadium, Dissolved	ug/L	40	41.8	104	80-120	
Zinc, Dissolved	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	43.4	42.6	108	106	75-125	2	20	
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	1200	40	40	1220	1220	62	49	75-125	0	20	P6
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Cobalt, Dissolved	ug/L	2.1	40	40	40.7	39.9	96	95	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	
Lead, Dissolved	ug/L	ND	40	40	43.2	42.7	108	107	75-125	1	20	
Nickel, Dissolved	ug/L	10.6	40	40	48.8	48.9	95	96	75-125	0	20	
Selenium, Dissolved	ug/L	ND	40	40	39.6	39.3	99	98	75-125	1	20	
Thallium, Dissolved	ug/L	ND	40	40	43.1	42.8	107	106	75-125	1	20	
Tin, Dissolved	ug/L	ND	40	40	43.2	42.7	106	105	75-125	1	20	N2
Vanadium, Dissolved	ug/L	ND	40	40	43.2	42.3	108	105	75-125	2	20	
Zinc, Dissolved	ug/L	ND	40	40	38.7	38.8	92	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776637
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3554976 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/24 12:03	
1,1-Dichloropropene	ug/L	ND	5.0	02/21/24 12:03	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/21/24 12:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	25.0	02/21/24 12:03	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/21/24 12:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/24 12:03	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/24 12:03	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/24 12:03	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/21/24 12:03	
1,3-Dichloropropane	ug/L	ND	5.0	02/21/24 12:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/24 12:03	
2,2-Dichloropropane	ug/L	ND	5.0	02/21/24 12:03	
2-Butanone (MEK)	ug/L	ND	50.0	02/21/24 12:03	
2-Hexanone	ug/L	ND	50.0	02/21/24 12:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50.0	02/21/24 12:03	
Acetone	ug/L	ND	50.0	02/21/24 12:03	
Acetonitrile	ug/L	ND	50.0	02/21/24 12:03	
Acrolein	ug/L	ND	50.0	02/21/24 12:03	
Acrylonitrile	ug/L	ND	50.0	02/21/24 12:03	
Allyl chloride	ug/L	ND	5.0	02/21/24 12:03	
Benzene	ug/L	ND	1.0	02/21/24 12:03	
Bromochloromethane	ug/L	ND	5.0	02/21/24 12:03	
Bromodichloromethane	ug/L	ND	5.0	02/21/24 12:03	
Bromoform	ug/L	ND	5.0	02/21/24 12:03	
Bromomethane	ug/L	ND	2.0	02/21/24 12:03	
Carbon disulfide	ug/L	ND	50.0	02/21/24 12:03	
Carbon tetrachloride	ug/L	ND	1.0	02/21/24 12:03	
Chlorobenzene	ug/L	ND	1.0	02/21/24 12:03	
Chloroethane	ug/L	ND	1.0	02/21/24 12:03	
Chloroform	ug/L	ND	1.0	02/21/24 12:03	
Chloromethane	ug/L	ND	1.0	02/21/24 12:03	
Chloroprene	ug/L	ND	5.0	02/21/24 12:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 12:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 12:03	
Dibromochloromethane	ug/L	ND	5.0	02/21/24 12:03	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

METHOD BLANK: 3554976 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	02/21/24 12:03	
Ethylbenzene	ug/L	ND	1.0	02/21/24 12:03	
Iodomethane	ug/L	ND	5.0	02/21/24 12:03	
Isobutanol	ug/L	ND	100	02/21/24 12:03	
Methacrylonitrile	ug/L	ND	5.0	02/21/24 12:03	
Methyl methacrylate	ug/L	ND	5.0	02/21/24 12:03	
Methylene Chloride	ug/L	ND	3.0	02/21/24 12:03	
Propionitrile	ug/L	ND	5.0	02/21/24 12:03	
Styrene	ug/L	ND	1.0	02/21/24 12:03	
Tetrachloroethene	ug/L	ND	1.0	02/21/24 12:03	
Toluene	ug/L	ND	1.0	02/21/24 12:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 12:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 12:03	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	02/21/24 12:03	
Trichloroethene	ug/L	ND	1.0	02/21/24 12:03	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/24 12:03	
Vinyl acetate	ug/L	ND	50.0	02/21/24 12:03	
Vinyl chloride	ug/L	ND	2.0	02/21/24 12:03	
Xylene (Total)	ug/L	ND	2.0	02/21/24 12:03	
4-Bromofluorobenzene (S)	%.	100	79-124	02/21/24 12:03	
Dibromofluoromethane (S)	%.	94	82-128	02/21/24 12:03	
Toluene-d8 (S)	%.	107	73-122	02/21/24 12:03	

LABORATORY CONTROL SAMPLE: 3554977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	81-130	
1,1,1-Trichloroethane	ug/L	50	44.7	89	76-127	
1,1,2,2-Tetrachloroethane	ug/L	50	61.8	124	70-126	
1,1,2-Trichloroethane	ug/L	50	55.3	111	79-124	
1,1-Dichloroethane	ug/L	50	48.0	96	76-123	
1,1-Dichloroethene	ug/L	50	47.3	95	73-133	
1,1-Dichloropropene	ug/L	50	52.0	104	78-144	
1,2,3-Trichloropropane	ug/L	50	58.0	116	75-121	
1,2-Dibromo-3-chloropropane	ug/L	50	61.8	124	81-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.4	109	80-126	
1,2-Dichlorobenzene	ug/L	50	55.5	111	79-123	
1,2-Dichloroethane	ug/L	50	42.6	85	70-124	
1,2-Dichloropropane	ug/L	50	50.5	101	74-128	
1,3-Dichlorobenzene	ug/L	50	56.1	112	77-124	
1,3-Dichloropropane	ug/L	50	56.5	113	77-126	
1,4-Dichlorobenzene	ug/L	50	57.2	114	77-120	
2,2-Dichloropropane	ug/L	50	48.6	97	65-136	
2-Butanone (MEK)	ug/L	250	275	110	59-134	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

LABORATORY CONTROL SAMPLE: 3554977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	250	288	115	63-134	
4-Methyl-2-pentanone (MIBK)	ug/L	250	293	117	67-133	
Acetone	ug/L	250	238	95	32-133	
Acetonitrile	ug/L	250	194	78	48-138	
Acrolein	ug/L	1000	924	92	35-166	
Acrylonitrile	ug/L	250	274	110	69-137	
Allyl chloride	ug/L	50	48.8	98	57-131	
Benzene	ug/L	50	48.8	98	74-124	
Bromochloromethane	ug/L	50	45.1	90	66-127	
Bromodichloromethane	ug/L	50	48.3	97	80-126	
Bromoform	ug/L	50	56.1	112	75-128	
Bromomethane	ug/L	50	34.0	68	10-183	
Carbon disulfide	ug/L	50	45.1J	90	68-123	
Carbon tetrachloride	ug/L	50	42.6	85	78-132	
Chlorobenzene	ug/L	50	52.5	105	77-121	
Chloroethane	ug/L	50	35.7	71	43-140	
Chloroform	ug/L	50	45.7	91	75-118	
Chloromethane	ug/L	50	33.8	68	45-130	
Chloroprene	ug/L	50	46.9	94	67-135	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	76-125	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	76-132	
Dibromochloromethane	ug/L	50	53.3	107	79-130	
Dichlorodifluoromethane	ug/L	50	19.4	39	10-124	
Ethylbenzene	ug/L	50	53.7	107	74-125	
Iodomethane	ug/L	50	41.0	82	10-160	
Isobutanol	ug/L	250	265	106	44-146	
Methacrylonitrile	ug/L	250	245	98	65-134	
Methyl methacrylate	ug/L	50	51.2	102	71-133	
Methylene Chloride	ug/L	50	46.4	93	77-126	
Propionitrile	ug/L	250	270	108	62-138	
Styrene	ug/L	50	54.7	109	81-129	
Tetrachloroethene	ug/L	50	52.0	104	73-132	
Toluene	ug/L	50	52.5	105	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.0	94	74-125	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	75-132	
trans-1,4-Dichloro-2-butene	ug/L	50	55.2	110	66-152	
Trichloroethene	ug/L	50	48.0	96	75-127	
Trichlorofluoromethane	ug/L	50	37.9	76	64-136	
Vinyl acetate	ug/L	200	195	97	62-159	
Vinyl chloride	ug/L	50	36.6	73	48-133	
Xylene (Total)	ug/L	150	153	102	73-123	
4-Bromofluorobenzene (S)	%.			96	79-124	
Dibromofluoromethane (S)	%.			93	82-128	
Toluene-d8 (S)	%.			106	73-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554978 3554979

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	28.8	48.8	58	98	60-150	52	20	M1,R1
1,1,1-Trichloroethane	ug/L	ND	50	50	27.2	44.8	54	90	63-138	49	20	M1,R1
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	42.7	59.4	85	119	58-146	33	20	R1
1,1,2-Trichloroethane	ug/L	ND	50	50	34.8	52.4	70	105	63-142	40	20	R1
1,1-Dichloroethane	ug/L	ND	50	50	29.3	48.3	59	97	64-138	49	20	M1,R1
1,1-Dichloroethene	ug/L	ND	50	50	30.9	48.8	62	98	65-139	45	20	M1,R1
1,1-Dichloropropene	ug/L	ND	50	50	32.2	52.6	64	105	68-155	48	20	M1,R1
1,2,3-Trichloropropane	ug/L	ND	50	50	41.6	56.8	83	114	54-144	31	20	R1
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	43.8	57.7	88	115	48-144	28	20	R1
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	35.3	50.9	71	102	64-139	36	20	R1
1,2-Dichlorobenzene	ug/L	ND	50	50	33.7	52.9	67	106	50-136	44	20	R1
1,2-Dichloroethane	ug/L	ND	50	50	27.0	41.0	54	82	55-146	41	20	M1,R1
1,2-Dichloropropane	ug/L	ND	50	50	29.4	48.4	59	97	66-134	49	20	M1,R1
1,3-Dichlorobenzene	ug/L	ND	50	50	32.8	53.7	66	107	47-133	48	20	R1
1,3-Dichloropropane	ug/L	ND	50	50	35.5	53.2	71	106	61-144	40	20	R1
1,4-Dichlorobenzene	ug/L	ND	50	50	33.8	54.7	68	109	50-131	47	20	R1
2,2-Dichloropropane	ug/L	ND	50	50	27.7	44.6	55	89	33-146	47	20	R1
2-Butanone (MEK)	ug/L	ND	250	250	210	265	84	106	45-155	23	20	R1
2-Hexanone	ug/L	ND	250	250	219	282	88	113	48-157	25	20	R1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	219	287	88	115	53-156	27	20	R1
Acetone	ug/L	ND	250	250	188	236	75	94	16-162	23	20	R1
Acetonitrile	ug/L	ND	250	250	130	196	52	79	48-149	40	20	R1
Acrolein	ug/L	ND	1000	1000	694	888	69	89	39-184	24	20	R1
Acrylonitrile	ug/L	ND	250	250	204	261	82	105	58-140	25	20	R1
Allyl chloride	ug/L	ND	50	50	33.6	47.7	67	95	51-149	35	20	R1
Benzene	ug/L	ND	50	50	29.2	48.4	58	97	65-137	49	20	M1,R1
Bromochloromethane	ug/L	ND	50	50	28.6	44.0	57	88	56-139	42	20	R1
Bromodichloromethane	ug/L	ND	50	50	27.3	45.4	55	91	61-149	50	20	M1,R1
Bromoform	ug/L	ND	50	50	32.5	49.9	65	100	51-138	42	20	R1
Bromomethane	ug/L	ND	50	50	18.0	34.2	36	68	10-169	62	20	R1
Carbon disulfide	ug/L	ND	50	50	28.5J	45.9J	57	92	55-126	47	20	R1
Carbon tetrachloride	ug/L	ND	50	50	24.9	42.0	50	84	65-156	51	20	M1,R1
Chlorobenzene	ug/L	ND	50	50	31.3	51.6	63	103	54-135	49	20	R1
Chloroethane	ug/L	ND	50	50	22.0	37.5	44	75	46-142	52	20	M1,R1
Chloroform	ug/L	ND	50	50	27.9	45.5	56	91	64-133	48	20	M1,R1
Chloromethane	ug/L	ND	50	50	23.5	35.8	47	72	30-139	42	20	R1
Chloroprene	ug/L	ND	50	50	30.6	49.1	61	98	68-154		20	M1
cis-1,2-Dichloroethene	ug/L	ND	50	50	29.0	48.2	58	96	59-141	50	20	M1,R1
cis-1,3-Dichloropropene	ug/L	ND	50	50	33.4	53.4	67	107	57-141	46	20	R1
Dibromochloromethane	ug/L	ND	50	50	30.0	48.3	60	97	59-147	47	20	R1
Dichlorodifluoromethane	ug/L	ND	50	50	14.3	21.0	29	42	10-144	38	20	R1
Ethylbenzene	ug/L	ND	50	50	31.6	53.8	63	108	50-143	52	20	R1
Iodomethane	ug/L	ND	50	50	20.9	40.5	42	81	10-154	64	20	R1
Isobutanol	ug/L	ND	250	250	186	247	74	99	43-148	28	20	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554978 3554979

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methacrylonitrile	ug/L	ND	250	250	185	241	74	96	60-155	27	20	R1
Methyl methacrylate	ug/L	ND	50	50	35.1	48.7	70	97	72-143	33	20	M1,R1
Methylene Chloride	ug/L	ND	50	50	28.0	45.5	56	91	53-126	48	20	R1
Propionitrile	ug/L	ND	250	250	213	264	85	106	65-146	21	20	R1
Styrene	ug/L	ND	50	50	32.4	53.1	65	106	57-141	49	20	R1
Tetrachloroethene	ug/L	ND	50	50	30.5	51.9	61	104	43-149	52	20	R1
Toluene	ug/L	ND	50	50	31.9	52.7	64	105	57-137	49	20	R1
trans-1,2-Dichloroethene	ug/L	ND	50	50	29.1	47.6	58	95	63-133	48	20	M1,R1
trans-1,3-Dichloropropene	ug/L	ND	50	50	32.6	50.9	65	102	56-140	44	20	R1
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	37.2	50.5	74	101	36-169		20	
Trichloroethene	ug/L	ND	50	50	29.1	47.9	58	96	52-145	49	20	R1
Trichlorofluoromethane	ug/L	ND	50	50	26.3	40.1	53	80	52-144	41	20	R1
Vinyl acetate	ug/L	ND	200	200	122	176	61	88	27-179	36	20	R1
Vinyl chloride	ug/L	ND	50	50	26.4	40.0	52	79	43-139	41	20	R1
Xylene (Total)	ug/L	ND	150	150	90.1	151	60	101	52-137	51	20	RS
4-Bromofluorobenzene (S)	%.						96	97	79-124			
Dibromofluoromethane (S)	%.						93	93	82-128			
Toluene-d8 (S)	%.						108	107	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776892
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50365972004

METHOD BLANK: 3556106 Matrix: Water
Associated Lab Samples: 50365972004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/24 12:04	
1,1-Dichloropropene	ug/L	ND	5.0	02/22/24 12:04	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/22/24 12:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	25.0	02/22/24 12:04	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/22/24 12:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/24 12:04	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/24 12:04	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/24 12:04	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/22/24 12:04	
1,3-Dichloropropane	ug/L	ND	5.0	02/22/24 12:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/24 12:04	
2,2-Dichloropropane	ug/L	ND	5.0	02/22/24 12:04	
2-Butanone (MEK)	ug/L	ND	50.0	02/22/24 12:04	
2-Hexanone	ug/L	ND	50.0	02/22/24 12:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50.0	02/22/24 12:04	
Acetone	ug/L	ND	50.0	02/22/24 12:04	
Acetonitrile	ug/L	ND	50.0	02/22/24 12:04	
Acrolein	ug/L	ND	50.0	02/22/24 12:04	
Acrylonitrile	ug/L	ND	50.0	02/22/24 12:04	
Allyl chloride	ug/L	ND	5.0	02/22/24 12:04	
Benzene	ug/L	ND	1.0	02/22/24 12:04	
Bromochloromethane	ug/L	ND	5.0	02/22/24 12:04	
Bromodichloromethane	ug/L	ND	5.0	02/22/24 12:04	
Bromoform	ug/L	ND	5.0	02/22/24 12:04	
Bromomethane	ug/L	ND	2.0	02/22/24 12:04	
Carbon disulfide	ug/L	ND	50.0	02/22/24 12:04	
Carbon tetrachloride	ug/L	ND	1.0	02/22/24 12:04	
Chlorobenzene	ug/L	ND	1.0	02/22/24 12:04	
Chloroethane	ug/L	ND	1.0	02/22/24 12:04	
Chloroform	ug/L	ND	1.0	02/22/24 12:04	
Chloromethane	ug/L	ND	1.0	02/22/24 12:04	
Chloroprene	ug/L	ND	5.0	02/22/24 12:04	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/24 12:04	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/24 12:04	
Dibromochloromethane	ug/L	ND	5.0	02/22/24 12:04	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

METHOD BLANK: 3556106 Matrix: Water
Associated Lab Samples: 50365972004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	02/22/24 12:04	
Ethylbenzene	ug/L	ND	1.0	02/22/24 12:04	
Iodomethane	ug/L	ND	5.0	02/22/24 12:04	
Isobutanol	ug/L	ND	100	02/22/24 12:04	
Methacrylonitrile	ug/L	ND	5.0	02/22/24 12:04	
Methyl methacrylate	ug/L	ND	5.0	02/22/24 12:04	
Methylene Chloride	ug/L	ND	3.0	02/22/24 12:04	
Propionitrile	ug/L	ND	5.0	02/22/24 12:04	
Styrene	ug/L	ND	1.0	02/22/24 12:04	
Tetrachloroethene	ug/L	ND	1.0	02/22/24 12:04	
Toluene	ug/L	ND	1.0	02/22/24 12:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/24 12:04	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/24 12:04	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.0	02/22/24 12:04	
Trichloroethene	ug/L	ND	1.0	02/22/24 12:04	
Trichlorofluoromethane	ug/L	ND	5.0	02/22/24 12:04	
Vinyl acetate	ug/L	ND	50.0	02/22/24 12:04	
Vinyl chloride	ug/L	ND	2.0	02/22/24 12:04	
Xylene (Total)	ug/L	ND	2.0	02/22/24 12:04	
4-Bromofluorobenzene (S)	%.	99	79-124	02/22/24 12:04	1d
Dibromofluoromethane (S)	%.	94	82-128	02/22/24 12:04	
Toluene-d8 (S)	%.	106	73-122	02/22/24 12:04	

LABORATORY CONTROL SAMPLE: 3556107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	81-130	
1,1,1-Trichloroethane	ug/L	50	43.6	87	76-127	
1,1,2,2-Tetrachloroethane	ug/L	50	59.5	119	70-126	
1,1,2-Trichloroethane	ug/L	50	53.1	106	79-124	
1,1-Dichloroethane	ug/L	50	46.3	93	76-123	
1,1-Dichloroethene	ug/L	50	45.3	91	73-133	
1,1-Dichloropropene	ug/L	50	50.5	101	78-144	
1,2,3-Trichloropropane	ug/L	50	54.5	109	75-121	
1,2-Dibromo-3-chloropropane	ug/L	50	59.3	119	81-133	
1,2-Dibromoethane (EDB)	ug/L	50	52.4	105	80-126	
1,2-Dichlorobenzene	ug/L	50	53.9	108	79-123	
1,2-Dichloroethane	ug/L	50	40.9	82	70-124	
1,2-Dichloropropane	ug/L	50	49.6	99	74-128	
1,3-Dichlorobenzene	ug/L	50	55.0	110	77-124	
1,3-Dichloropropane	ug/L	50	54.0	108	77-126	
1,4-Dichlorobenzene	ug/L	50	55.6	111	77-120	
2,2-Dichloropropane	ug/L	50	47.2	94	65-136	
2-Butanone (MEK)	ug/L	250	263	105	59-134	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

LABORATORY CONTROL SAMPLE: 3556107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ug/L	250	271	108	63-134	
4-Methyl-2-pentanone (MIBK)	ug/L	250	277	111	67-133	
Acetone	ug/L	250	226	90	32-133	
Acetonitrile	ug/L	250	188	75	48-138	
Acrolein	ug/L	1000	876	88	35-166	
Acrylonitrile	ug/L	250	264	106	69-137	
Allyl chloride	ug/L	50	47.4	95	57-131	
Benzene	ug/L	50	47.7	95	74-124	
Bromochloromethane	ug/L	50	43.2	86	66-127	
Bromodichloromethane	ug/L	50	47.2	94	80-126	
Bromoform	ug/L	50	53.9	108	75-128	
Bromomethane	ug/L	50	34.0	68	10-183	
Carbon disulfide	ug/L	50	43.6J	87	68-123	
Carbon tetrachloride	ug/L	50	41.8	84	78-132	
Chlorobenzene	ug/L	50	51.1	102	77-121	
Chloroethane	ug/L	50	34.0	68	43-140	
Chloroform	ug/L	50	44.2	88	75-118	
Chloromethane	ug/L	50	32.8	66	45-130	
Chloroprene	ug/L	50	44.9	90	67-135	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	76-125	
cis-1,3-Dichloropropene	ug/L	50	56.0	112	76-132	
Dibromochloromethane	ug/L	50	51.0	102	79-130	
Dichlorodifluoromethane	ug/L	50	18.0	36	10-124	
Ethylbenzene	ug/L	50	52.7	105	74-125	
Iodomethane	ug/L	50	39.7	79	10-160	
Isobutanol	ug/L	250	250	100	44-146	
Methacrylonitrile	ug/L	250	232	93	65-134	
Methyl methacrylate	ug/L	50	49.2	98	71-133	
Methylene Chloride	ug/L	50	45.2	90	77-126	
Propionitrile	ug/L	250	260	104	62-138	
Styrene	ug/L	50	53.2	106	81-129	
Tetrachloroethene	ug/L	50	50.7	101	73-132	
Toluene	ug/L	50	51.2	102	72-119	
trans-1,2-Dichloroethene	ug/L	50	45.5	91	74-125	
trans-1,3-Dichloropropene	ug/L	50	53.6	107	75-132	
trans-1,4-Dichloro-2-butene	ug/L	50	53.0	106	66-152	
Trichloroethene	ug/L	50	46.8	94	75-127	
Trichlorofluoromethane	ug/L	50	36.7	73	64-136	
Vinyl acetate	ug/L	200	186	93	62-159	
Vinyl chloride	ug/L	50	34.9	70	48-133	
Xylene (Total)	ug/L	150	149	100	73-123	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			92	82-128	
Toluene-d8 (S)	%.			106	73-122	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776263
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3553541 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	

LABORATORY CONTROL SAMPLE: 3553542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3553543

Parameter	Units	50365977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	324	325	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	324	325	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553544

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	467	466	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	467	466	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776531 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3554570 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/21/24 10:17	

LABORATORY CONTROL SAMPLE: 3554571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3554572

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	875	869	1	10	

SAMPLE DUPLICATE: 3554573

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	1000	1080	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776532
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001

METHOD BLANK: 3554574 Matrix: Water
Associated Lab Samples: 50365972001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:48	

LABORATORY CONTROL SAMPLE: 3554575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3554576

Parameter	Units	50365973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	859	855	0	10	

SAMPLE DUPLICATE: 3554577

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	850	851	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776533
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972002, 50365972003

METHOD BLANK: 3554578 Matrix: Water
Associated Lab Samples: 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:37	

LABORATORY CONTROL SAMPLE: 3554579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 3554580

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	524	568	8	10	

SAMPLE DUPLICATE: 3554581

Parameter	Units	50365981003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	466	463	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 775871
QC Batch Method: SM 4500-S2-D
Analysis Method: SM 4500-S2-D
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3551761 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	02/16/24 09:49	

LABORATORY CONTROL SAMPLE: 3551762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	.54J	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551763 3551764

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	.54J	.52J	101	98	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551765 3551766

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	2.1J	2.5	2.5	4.7J	4.6J	103	101	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 775841
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3551673 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 03:04	

LABORATORY CONTROL SAMPLE: 3551674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551675 3551676

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	105	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 777739
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3559702 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 11:02	

LABORATORY CONTROL SAMPLE: 3559703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559704 3559705

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	3.2	5	5	8.0	8.0	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559706 3559707

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	4.9	10	10	14.9	14.9	101	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 777506
QC Batch Method: EPA 9012
Analysis Method: EPA 9012
Analysis Description: 9012 Cyanide, Total
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3558775 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	02/27/24 13:07	

LABORATORY CONTROL SAMPLE: 3558776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.098	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558777 3558778

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.097	0.099	97	99	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558779 3558780

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.097	0.095	97	95	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

QC Batch: 776310
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365972001, 50365972002, 50365972003

METHOD BLANK: 3553688 Matrix: Water
Associated Lab Samples: 50365972001, 50365972002, 50365972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/20/24 15:35	

LABORATORY CONTROL SAMPLE: 3553689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.055	110	90-110	L3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553690 3553691

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.25	0.25	0.29	0.28	112	107	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553692 3553693

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.094	0.054	183	104	90-110	53	20	M3,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

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

1d	Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365972001	**MW-24SAL**	EPA 9056	775813		
50365972002	**MW-9SRP**	EPA 9056	775813		
50365972003	**MW-31SRP**	EPA 9056	775813		
50365972001	**MW-24SAL**	EPA 3010	775845	EPA 6010	776475
50365972002	**MW-9SRP**	EPA 3010	775845	EPA 6010	776475
50365972003	**MW-31SRP**	EPA 3010	775845	EPA 6010	776475
50365972001	**MW-24SAL**	EPA 3010	776455	EPA 6010	776995
50365972002	**MW-9SRP**	EPA 3010	776455	EPA 6010	776995
50365972003	**MW-31SRP**	EPA 3010	776455	EPA 6010	776995
50365972001	**MW-24SAL**	EPA 200.2	776022	EPA 6020	776509
50365972002	**MW-9SRP**	EPA 200.2	776022	EPA 6020	776509
50365972003	**MW-31SRP**	EPA 200.2	776022	EPA 6020	776509
50365972001	**MW-24SAL**	EPA 200.2	776028	EPA 6020	776510
50365972002	**MW-9SRP**	EPA 200.2	776028	EPA 6020	776510
50365972003	**MW-31SRP**	EPA 200.2	776028	EPA 6020	776510
50365972001	**MW-24SAL**	EPA 7470	776652	EPA 7470	776955
50365972002	**MW-9SRP**	EPA 7470	776652	EPA 7470	776955
50365972003	**MW-31SRP**	EPA 7470	776652	EPA 7470	776955
50365972001	**MW-24SAL**	EPA 7470	776651	EPA 7470	776795
50365972002	**MW-9SRP**	EPA 7470	776651	EPA 7470	776795
50365972003	**MW-31SRP**	EPA 7470	776651	EPA 7470	776795
50365972001	**MW-24SAL**	EPA 5030B/8260	776637		
50365972002	**MW-9SRP**	EPA 5030B/8260	776637		
50365972003	**MW-31SRP**	EPA 5030B/8260	776637		
50365972004	**TRIP BLANK**	EPA 5030B/8260	776892		
50365972001	**MW-24SAL**	SM 2320B	776263		
50365972002	**MW-9SRP**	SM 2320B	776263		
50365972003	**MW-31SRP**	SM 2320B	776263		
50365972001	**MW-24SAL**	SM 2540B	776531		
50365972002	**MW-9SRP**	SM 2540B	776531		
50365972003	**MW-31SRP**	SM 2540B	776531		
50365972001	**MW-24SAL**	SM 2540C	776532		
50365972002	**MW-9SRP**	SM 2540C	776533		
50365972003	**MW-31SRP**	SM 2540C	776533		
50365972001	**MW-24SAL**	SM 4500-S2-D	775871		
50365972002	**MW-9SRP**	SM 4500-S2-D	775871		
50365972003	**MW-31SRP**	SM 4500-S2-D	775871		
50365972001	**MW-24SAL**	EPA 353.2	775841		
50365972002	**MW-9SRP**	EPA 353.2	775841		
50365972003	**MW-31SRP**	EPA 353.2	775841		
50365972001	**MW-24SAL**	SM 4500-NH3 G	777739		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley East Assessment
Pace Project No.: 50365972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365972002	**MW-9SRP**	SM 4500-NH3 G	777739		
50365972003	**MW-31SRP**	SM 4500-NH3 G	777739		
50365972001	**MW-24SAL**	EPA 9012	777506	EPA 9012	777592
50365972002	**MW-9SRP**	EPA 9012	777506	EPA 9012	777592
50365972003	**MW-31SRP**	EPA 9012	777506	EPA 9012	777592
50365972001	**MW-24SAL**	EPA 9066	776310	EPA 9066	776439
50365972002	**MW-9SRP**	EPA 9066	776310	EPA 9066	776439
50365972003	**MW-31SRP**	EPA 9066	776310	EPA 9066	776439

Pace Analytical

CHAIN-OF-CUSTODY / WO# : 50365972

The Chain-of-Custody is a LEGAL DOC

50365972

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention:	AP
Address:	5154 East 65th Street	Copy To:		Company Name:	Repub
	Indianapolis, IN 46220			Address:	
Email:	sreuter@sescogroup.com	Purchase Order #:		Pace Quote:	
Phone:	(317)752-3435 Fax:	Project Name:	Wabash Valley Easte Assessment	Pace Project Manager:	kenneth.hunt@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	5235 / 1

Page: 1 Of 1

Regulatory Agency:

State / Location: IN

MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	Cl, F, SO4 9056	Total Metals 6010/6020/7470	Diss. Metals 6010/6020/7470	Nitrate 353.2, Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Total Phenolics 9066	Total Cyanide 9012	Sulfide 4500 S2D		Residual Chlorine (Y/N)	
1	MW-24SAL	WT	G			2-15-24	1040		12	3	2	2	3	1			1		X	X	X	X	X	X	X	X	X	X			001
2	MW-9SRP	WT	G			↓	1120		12	3	2	2	3	1			1		X	X	X	X	X	X	X	X	X	X			002
3	~~MW-12SAL~~ MW-31SRP	WT	G			↓	—		12	3	2	2	3	1			1		X	X	X	X	X	X	X	X	X	X			003
4	TRIP BLANK	WT	G			↓	—						3						X												004
5	MS/MSD (PARENT SAMPLE: MW-9SRP)	WT	G			↓	1120		12	3	2	2	3	1			1		Extra volume for designated MS/MSD. Do NOT Log as a sample but as RQS for the Parent sample.												
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Metals 6010/6020/7470= Sb, Ba, Be, Cd, Co, cu, Pb, Ni, Ag, Zn, Sn, Li, V, Cr, As, Se, Tl, Hg Dissolved Metals 6010/6020/7470= Be, Cd, Fe, Mn, Ag, Ca, Mg, Na, K, Li, V, Cr, Co, Ni, Cu, Zn, As, Se, Sn, Sb, Ba, Tl, Pb, Hg	[signature]	2-15-24	145	[signature] PACE	2/15/24	1345	0.5	Y	N	Y
Nitrate is a short hold										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ryan Frahlich

SIGNATURE of SAMPLER: [signature] DATE Signed: 2-15-24

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

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMK

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE | COMMENTS | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? Analysis: Nitrate	/		Circle: **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1800			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			—
Custody Signatures Present?	—		Residual Chlorine Check (Total/Amenable/Free Cyanide)		/	
			Headspace Wisconsin Sulfide?			—
Containers Intact?:	—		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	—		Trip Blank Present?	/		
Extra labels on Terracore Vials? (soils only)		—	Trip Blank Custody Seals?:	/		

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3 2.5/2.4, 0.6/0.5 Line 5 combined with Line 2 (MS/MSD) TW 2/15/24

COC PAGE 1 **of** 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3								—					2	1	1	—	1	—	—				WT	✓	✓	✓	✓
2				6								2					4	2	2	2	2	2	2								
3				3								1					2	1	1	1	1	1	1								
4				3																											
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

CERTIFICATIONS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365973001	**MW-119S**	Water	02/14/24 08:00	02/15/24 13:45
50365973002	**MW-19D**	Water	02/14/24 10:20	02/15/24 13:45
50365973003	**MW-19S**	Water	02/14/24 10:40	02/15/24 13:45
50365973004	**MW-20**	Water	02/14/24 11:20	02/15/24 13:45
50365973005	**MW-21**	Water	02/14/24 09:45	02/15/24 13:45

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365973001	**MW-119S**	EPA 9056	KBB	3
		EPA 6010	ABH	5
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	MGM	9
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365973002	**MW-19D**	EPA 9056	KBB	3
		EPA 6010	ABH	2
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	MGM	7
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365973003	**MW-19S**	EPA 9056	KBB	3
		EPA 6010	ABH	4
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	DMT	9
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365973004	**MW-20**	EPA 9056	KBB	3
		EPA 6010	ABH	6
		EPA 6010	JPK	8
		EPA 6020	DMT	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020	DMT	7
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365973005	**MW-21**	EPA 9056	KBB	3
		EPA 6010	ABH	5
		EPA 6010	JPK	8
		EPA 6020	DMT	2
		EPA 6020	DMT	9
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365973001	**MW-119S**					
EPA 9056	Chloride	234	mg/L	2.5	02/28/24 09:41	
EPA 9056	Fluoride	0.32	mg/L	0.10	02/23/24 23:42	
EPA 9056	Sulfate	21.3	mg/L	0.25	02/23/24 23:42	
EPA 6010	Barium	733	ug/L	10.0	02/20/24 17:44	
EPA 6010	Lithium	23.8	ug/L	10.0	02/20/24 17:44	
EPA 6010	Nickel	13.4	ug/L	10.0	02/20/24 17:44	
EPA 6010	Calcium, Dissolved	128000	ug/L	500	02/23/24 23:10	
EPA 6010	Iron, Dissolved	2260	ug/L	100	02/23/24 23:10	
EPA 6010	Lithium, Dissolved	28.4	ug/L	10.0	02/23/24 23:10	
EPA 6010	Magnesium, Dissolved	44200	ug/L	500	02/23/24 23:10	
EPA 6010	Manganese, Dissolved	875	ug/L	10.0	02/23/24 23:10	
EPA 6010	Potassium, Dissolved	39300	ug/L	500	02/23/24 23:10	
EPA 6010	Sodium, Dissolved	85100	ug/L	500	02/23/24 23:10	
EPA 6020	Arsenic	11.9	ug/L	5.0	02/21/24 05:17	
EPA 6020	Arsenic, Dissolved	11.9	ug/L	1.0	02/21/24 18:49	
EPA 6020	Barium, Dissolved	761	ug/L	10.0	02/21/24 18:35	
EPA 6020	Cobalt, Dissolved	4.2	ug/L	1.0	02/21/24 18:49	
EPA 6020	Copper, Dissolved	0.68	ug/L	0.50	02/21/24 18:49	
EPA 6020	Nickel, Dissolved	14.3	ug/L	2.0	02/21/24 18:49	
SM 2320B	Alkalinity, Total as CaCO3	436	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	436	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	810	mg/L	20.0	02/16/24 10:47	
SM 2540C	Total Dissolved Solids	859	mg/L	10.0	02/21/24 08:49	
SM 4500-NH3 G	Nitrogen, Ammonia	4.9	mg/L	0.10	02/28/24 11:26	
50365973002	**MW-19D**					
EPA 9056	Chloride	35.2	mg/L	2.5	02/24/24 00:40	
EPA 9056	Fluoride	0.82	mg/L	0.10	02/24/24 00:21	
EPA 9056	Sulfate	31.7	mg/L	0.25	02/24/24 00:21	
EPA 6010	Barium	156	ug/L	10.0	02/20/24 17:47	
EPA 6010	Lithium	32.8	ug/L	10.0	02/20/24 17:47	
EPA 6010	Calcium, Dissolved	105000	ug/L	500	02/23/24 23:13	
EPA 6010	Iron, Dissolved	1240	ug/L	100	02/23/24 23:13	
EPA 6010	Lithium, Dissolved	34.0	ug/L	10.0	02/23/24 23:13	
EPA 6010	Magnesium, Dissolved	38300	ug/L	500	02/23/24 23:13	
EPA 6010	Manganese, Dissolved	40.3	ug/L	10.0	02/23/24 23:13	
EPA 6010	Potassium, Dissolved	4090	ug/L	500	02/23/24 23:13	
EPA 6010	Sodium, Dissolved	19500	ug/L	500	02/23/24 23:13	
EPA 6020	Arsenic, Dissolved	1.0	ug/L	1.0	02/21/24 18:46	
EPA 6020	Barium, Dissolved	148	ug/L	2.0	02/21/24 18:46	
EPA 6020	Copper, Dissolved	1.5	ug/L	0.50	02/21/24 18:46	
SM 2320B	Alkalinity, Total as CaCO3	386	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	386	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	493	mg/L	10.0	02/16/24 10:48	
SM 2540C	Total Dissolved Solids	496	mg/L	10.0	02/21/24 08:50	
SM 4500-NH3 G	Nitrogen, Ammonia	0.34	mg/L	0.10	02/28/24 11:31	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365973003	**MW-19S**					
EPA 9056	Chloride	225	mg/L	2.5	02/21/24 00:28	
EPA 9056	Fluoride	0.21	mg/L	0.10	02/21/24 00:08	
EPA 9056	Sulfate	22.6	mg/L	0.25	02/21/24 00:08	
EPA 6010	Barium	743	ug/L	10.0	02/20/24 18:34	
EPA 6010	Nickel	13.1	ug/L	10.0	02/20/24 18:34	
EPA 6010	Calcium, Dissolved	129000	ug/L	500	02/23/24 23:24	
EPA 6010	Iron, Dissolved	2260	ug/L	100	02/23/24 23:24	
EPA 6010	Lithium, Dissolved	25.0	ug/L	10.0	02/23/24 23:24	
EPA 6010	Magnesium, Dissolved	44300	ug/L	500	02/23/24 23:24	
EPA 6010	Manganese, Dissolved	880	ug/L	10.0	02/23/24 23:24	
EPA 6010	Potassium, Dissolved	39300	ug/L	500	02/23/24 23:24	
EPA 6010	Sodium, Dissolved	84900	ug/L	500	02/23/24 23:24	
EPA 6020	Arsenic	11.0	ug/L	5.0	02/21/24 05:58	
EPA 6020	Arsenic, Dissolved	11.5	ug/L	1.0	02/21/24 02:15	
EPA 6020	Barium, Dissolved	728	ug/L	10.0	02/21/24 03:51	
EPA 6020	Cobalt, Dissolved	4.1	ug/L	1.0	02/21/24 02:15	
EPA 6020	Copper, Dissolved	0.99	ug/L	0.50	02/21/24 02:15	
EPA 6020	Nickel, Dissolved	13.9	ug/L	2.0	02/21/24 02:15	
SM 2320B	Alkalinity, Total as CaCO3	439	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	439	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	875	mg/L	10.0	02/21/24 10:18	
SM 2540C	Total Dissolved Solids	850	mg/L	10.0	02/21/24 08:51	
SM 4500-NH3 G	Nitrogen, Ammonia	4.9	mg/L	0.20	02/28/24 11:48	
50365973004	**MW-20**					
EPA 9056	Chloride	277	mg/L	25.0	02/21/24 06:36	
EPA 9056	Fluoride	0.35	mg/L	0.10	02/21/24 05:57	
EPA 9056	Sulfate	15.1	mg/L	0.25	02/21/24 05:57	
EPA 6010	Barium	1240	ug/L	10.0	02/20/24 18:07	
EPA 6010	Lithium	28.5	ug/L	10.0	02/20/24 18:07	
EPA 6010	Calcium, Dissolved	153000	ug/L	500	02/23/24 23:34	
EPA 6010	Iron, Dissolved	6130	ug/L	100	02/23/24 23:34	
EPA 6010	Lithium, Dissolved	28.4	ug/L	10.0	02/23/24 23:34	
EPA 6010	Magnesium, Dissolved	55100	ug/L	500	02/23/24 23:34	
EPA 6010	Manganese, Dissolved	859	ug/L	10.0	02/23/24 23:34	
EPA 6010	Potassium, Dissolved	28700	ug/L	500	02/23/24 23:34	
EPA 6010	Sodium, Dissolved	84100	ug/L	500	02/23/24 23:34	
EPA 6020	Arsenic	107	ug/L	5.0	02/21/24 06:28	
EPA 6020	Arsenic, Dissolved	65.6	ug/L	1.0	02/21/24 02:46	
EPA 6020	Barium, Dissolved	1240	ug/L	20.0	02/21/24 04:21	
EPA 6020	Cobalt, Dissolved	2.4	ug/L	1.0	02/21/24 02:46	
EPA 6020	Copper, Dissolved	1.8	ug/L	0.50	02/21/24 02:46	
EPA 6020	Nickel, Dissolved	9.2	ug/L	2.0	02/21/24 02:46	
SM 2320B	Alkalinity, Total as CaCO3	432	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	432	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	1050	mg/L	20.0	02/21/24 10:19	
SM 2540C	Total Dissolved Solids	1040	mg/L	20.0	02/21/24 08:55	
SM 4500-NH3 G	Nitrogen, Ammonia	6.7	mg/L	0.10	02/28/24 11:59	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365973005	**MW-21**					
EPA 9056	Chloride	177	mg/L	2.5	02/21/24 07:14	
EPA 9056	Fluoride	0.22	mg/L	0.10	02/21/24 06:55	
EPA 9056	Sulfate	21.7	mg/L	0.25	02/21/24 06:55	
EPA 6010	Barium	368	ug/L	10.0	02/20/24 18:11	
EPA 6010	Lithium	13.2	ug/L	10.0	02/20/24 18:11	
EPA 6010	Nickel	11.1	ug/L	10.0	02/20/24 18:11	
EPA 6010	Calcium, Dissolved	136000	ug/L	500	02/23/24 23:36	
EPA 6010	Lithium, Dissolved	11.5	ug/L	10.0	02/23/24 23:36	
EPA 6010	Magnesium, Dissolved	39100	ug/L	500	02/23/24 23:36	
EPA 6010	Potassium, Dissolved	7670	ug/L	500	02/23/24 23:36	
EPA 6010	Sodium, Dissolved	72200	ug/L	500	02/23/24 23:36	
EPA 6020	Barium, Dissolved	325	ug/L	6.0	02/21/24 04:25	
EPA 6020	Copper, Dissolved	2.7	ug/L	0.50	02/21/24 02:56	
EPA 6020	Nickel, Dissolved	7.1	ug/L	2.0	02/21/24 02:56	
SM 2320B	Alkalinity, Total as CaCO3	416	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	416	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	854	mg/L	10.0	02/21/24 10:20	
SM 2540C	Total Dissolved Solids	393	mg/L	10.0	02/21/24 08:56	
EPA 353.2	Nitrogen, Nitrate	0.26	mg/L	0.10	02/16/24 02:19	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-119S **Lab ID: 50365973001** Collected: 02/14/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**234**	mg/L	2.5	10		02/28/24 09:41	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	1		02/23/24 23:42	16984-48-8	
Sulfate	**21.3**	mg/L	0.25	1		02/23/24 23:42	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Barium	**733**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:44	7440-39-3	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:44	7440-48-4	
Lithium	**23.8**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:44	7439-93-2	
Nickel	**13.4**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:44	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:44	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:10	7440-43-9	
Calcium, Dissolved	**128000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:10	7440-70-2	
Iron, Dissolved	**2260**	ug/L	100	1	02/22/24 20:40	02/23/24 23:10	7439-89-6	
Lithium, Dissolved	**28.4**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:10	7439-93-2	
Magnesium, Dissolved	**44200**	ug/L	500	1	02/22/24 20:40	02/23/24 23:10	7439-95-4	
Manganese, Dissolved	**875**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:10	7439-96-5	
Potassium, Dissolved	**39300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:10	7440-09-7	
Sodium, Dissolved	**85100**	ug/L	500	1	02/22/24 20:40	02/23/24 23:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	**11.9**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:17	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:49	7440-36-0	
Arsenic, Dissolved	**11.9**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:49	7440-38-2	
Barium, Dissolved	**761**	ug/L	10.0	5	02/20/24 09:45	02/21/24 18:35	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 18:49	7440-47-3	
Cobalt, Dissolved	**4.2**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:49	7440-48-4	
Copper, Dissolved	**0.68**	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:49	7440-50-8	
Nickel, Dissolved	**14.3**	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:49	7440-02-0	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:49	7440-28-0	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 18:49	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/22/24 09:03	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 09:03	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 09:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 09:03	108-90-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-119S **Lab ID: 50365973001** Collected: 02/14/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Chloroethane	ND	ug/L	1.0	1		02/22/24 09:03	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 09:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 09:03	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 09:03	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 09:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 09:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 09:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 09:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 09:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 09:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 09:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 09:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 09:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 09:03	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 09:03	75-09-2	
Styrene	ND	ug/L	1.0	1		02/22/24 09:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 09:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 09:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 09:03	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 09:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 09:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 09:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 09:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 09:03	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 09:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 09:03	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	91	%.	79-124	1		02/22/24 09:03	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/22/24 09:03	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/22/24 09:03	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**436**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**436**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**810**	mg/L	20.0	1		02/16/24 10:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**859**	mg/L	10.0	1		02/21/24 08:49		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-119S **Lab ID: 50365973001** Collected: 02/14/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**4.9**	mg/L	0.10	1		02/28/24 11:26	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:51	64743-03-9	

Sample: MW-19D **Lab ID: 50365973002** Collected: 02/14/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**35.2**	mg/L	2.5	10		02/24/24 00:40	16887-00-6	
Fluoride	**0.82**	mg/L	0.10	1		02/24/24 00:21	16984-48-8	
Sulfate	**31.7**	mg/L	0.25	1		02/24/24 00:21	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**156**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:47	7440-39-3	
Lithium	**32.8**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:47	7439-93-2	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:13	7440-43-9	
Calcium, Dissolved	**105000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:13	7440-70-2	
Iron, Dissolved	**1240**	ug/L	100	1	02/22/24 20:40	02/23/24 23:13	7439-89-6	
Lithium, Dissolved	**34.0**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:13	7439-93-2	
Magnesium, Dissolved	**38300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:13	7439-95-4	
Manganese, Dissolved	**40.3**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:13	7439-96-5	
Potassium, Dissolved	**4090**	ug/L	500	1	02/22/24 20:40	02/23/24 23:13	7440-09-7	
Sodium, Dissolved	**19500**	ug/L	500	1	02/22/24 20:40	02/23/24 23:13	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:31	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:46	7440-36-0	
Arsenic, Dissolved	**1.0**	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:46	7440-38-2	
Barium, Dissolved	**148**	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:46	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 18:46	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 18:46	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	0.50	1	02/20/24 09:45	02/21/24 18:46	7440-50-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-19D **Lab ID: 50365973002** Collected: 02/14/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Nickel, Dissolved	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 18:46	7440-02-0	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/22/24 09:33	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 09:33	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 09:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 09:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/24 09:33	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 09:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 09:33	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 09:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 09:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 09:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 09:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 09:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 09:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 09:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 09:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 09:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 09:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 09:33	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 09:33	75-09-2	
Styrene	ND	ug/L	1.0	1		02/22/24 09:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 09:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 09:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 09:33	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 09:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 09:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 09:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 09:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 09:33	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 09:33	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 09:33	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%.	79-124	1		02/22/24 09:33	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/22/24 09:33	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/22/24 09:33	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**386**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**386**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-19D **Lab ID: 50365973002** Collected: 02/14/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**493**	mg/L	10.0	1		02/16/24 10:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**496**	mg/L	10.0	1		02/21/24 08:50		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.34**	mg/L	0.10	1		02/28/24 11:31	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:53	64743-03-9	

Sample: MW-19S **Lab ID: 50365973003** Collected: 02/14/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**225**	mg/L	2.5	10		02/21/24 00:28	16887-00-6	
Fluoride	**0.21**	mg/L	0.10	1		02/21/24 00:08	16984-48-8	
Sulfate	**22.6**	mg/L	0.25	1		02/21/24 00:08	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**743**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:34	7440-39-3	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:34	7440-48-4	
Nickel	**13.1**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:34	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:34	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:24	7440-43-9	
Calcium, Dissolved	**129000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:24	7440-70-2	
Iron, Dissolved	**2260**	ug/L	100	1	02/22/24 20:40	02/23/24 23:24	7439-89-6	
Lithium, Dissolved	**25.0**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:24	7439-93-2	
Magnesium, Dissolved	**44300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:24	7439-95-4	
Manganese, Dissolved	**880**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:24	7439-96-5	
Potassium, Dissolved	**39300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:24	7440-09-7	
Sodium, Dissolved	**84900**	ug/L	500	1	02/22/24 20:40	02/23/24 23:24	7440-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-19S **Lab ID: 50365973003** Collected: 02/14/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**11.0**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:58	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:15	7440-36-0	
Arsenic, Dissolved	**11.5**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:15	7440-38-2	
Barium, Dissolved	**728**	ug/L	10.0	5	02/20/24 15:43	02/21/24 03:51	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:15	7440-47-3	
Cobalt, Dissolved	**4.1**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:15	7440-48-4	
Copper, Dissolved	**0.99**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:15	7440-50-8	
Nickel, Dissolved	**13.9**	ug/L	2.0	1	02/20/24 15:43	02/21/24 02:15	7440-02-0	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:15	7440-28-0	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:15	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/22/24 11:31	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 11:31	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 11:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 11:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/24 11:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 11:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 11:31	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 11:31	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 11:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 11:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 11:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 11:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 11:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 11:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 11:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 11:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 11:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 11:31	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 11:31	75-09-2	
Styrene	ND	ug/L	1.0	1		02/22/24 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 11:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 11:31	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 11:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 11:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 11:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 11:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 11:31	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 11:31	75-01-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-19S **Lab ID: 50365973003** Collected: 02/14/24 10:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 11:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/22/24 11:31	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/22/24 11:31	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/22/24 11:31	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**439**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**439**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**875**	mg/L	10.0	1		02/21/24 10:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**850**	mg/L	10.0	1		02/21/24 08:51		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**4.9**	mg/L	0.20	2		02/28/24 11:48	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:58	64743-03-9	

Sample: MW-20 **Lab ID: 50365973004** Collected: 02/14/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**277**	mg/L	25.0	100		02/21/24 06:36	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	1		02/21/24 05:57	16984-48-8	
Sulfate	**15.1**	mg/L	0.25	1		02/21/24 05:57	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**1240**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:07	7440-39-3	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:07	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 18:07	7439-92-1	
Lithium	**28.5**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:07	7439-93-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-20 **Lab ID: 50365973004** Collected: 02/14/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:07	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:07	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:34	7440-43-9	
Calcium, Dissolved	**153000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:34	7440-70-2	
Iron, Dissolved	**6130**	ug/L	100	1	02/22/24 20:40	02/23/24 23:34	7439-89-6	
Lithium, Dissolved	**28.4**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:34	7439-93-2	
Magnesium, Dissolved	**55100**	ug/L	500	1	02/22/24 20:40	02/23/24 23:34	7439-95-4	
Manganese, Dissolved	**859**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:34	7439-96-5	
Potassium, Dissolved	**28700**	ug/L	500	1	02/22/24 20:40	02/23/24 23:34	7440-09-7	
Sodium, Dissolved	**84100**	ug/L	500	1	02/22/24 20:40	02/23/24 23:34	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**107**	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:28	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**65.6**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:46	7440-38-2	
Barium, Dissolved	**1240**	ug/L	20.0	10	02/20/24 15:43	02/21/24 04:21	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:46	7440-47-3	
Cobalt, Dissolved	**2.4**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:46	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:46	7440-50-8	
Nickel, Dissolved	**9.2**	ug/L	2.0	1	02/20/24 15:43	02/21/24 02:46	7440-02-0	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:46	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/22/24 10:02	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 10:02	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 10:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 10:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/24 10:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 10:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 10:02	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 10:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 10:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 10:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 10:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 10:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 10:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 10:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 10:02	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-20 **Lab ID: 50365973004** Collected: 02/14/24 11:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 10:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 10:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 10:02	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 10:02	75-09-2	
Styrene	ND	ug/L	1.0	1		02/22/24 10:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 10:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 10:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 10:02	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 10:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 10:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 10:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 10:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 10:02	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 10:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 10:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/22/24 10:02	460-00-4	
Dibromofluoromethane (S)	98	%.	82-128	1		02/22/24 10:02	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/22/24 10:02	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**432**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**432**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**1050**	mg/L	20.0	1		02/21/24 10:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1040**	mg/L	20.0	1		02/21/24 08:55		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 02:38	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**6.7**	mg/L	0.10	1		02/28/24 11:59	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 16:06	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-21 **Lab ID: 50365973005** Collected: 02/14/24 09:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**177**	mg/L	2.5	10		02/21/24 07:14	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	1		02/21/24 06:55	16984-48-8	
Sulfate	**21.7**	mg/L	0.25	1		02/21/24 06:55	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Barium	**368**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:11	7440-39-3	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 18:11	7439-92-1	
Lithium	**13.2**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:11	7439-93-2	
Nickel	**11.1**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:11	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:11	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:36	7440-43-9	
Calcium, Dissolved	**136000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:36	7440-70-2	
Iron, Dissolved	ND	ug/L	100	1	02/22/24 20:40	02/23/24 23:36	7439-89-6	
Lithium, Dissolved	**11.5**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:36	7439-93-2	
Magnesium, Dissolved	**39100**	ug/L	500	1	02/22/24 20:40	02/23/24 23:36	7439-95-4	
Manganese, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:36	7439-96-5	
Potassium, Dissolved	**7670**	ug/L	500	1	02/22/24 20:40	02/23/24 23:36	7440-09-7	
Sodium, Dissolved	**72200**	ug/L	500	1	02/22/24 20:40	02/23/24 23:36	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:38	7440-38-2	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 06:38	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:56	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:56	7440-38-2	
Barium, Dissolved	**325**	ug/L	6.0	3	02/20/24 15:43	02/21/24 04:25	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:56	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:56	7440-48-4	
Copper, Dissolved	**2.7**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:56	7440-50-8	
Nickel, Dissolved	**7.1**	ug/L	2.0	1	02/20/24 15:43	02/21/24 02:56	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:56	7782-49-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:56	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/22/24 10:32	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/22/24 10:32	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/22/24 10:32	56-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-21 **Lab ID: 50365973005** Collected: 02/14/24 09:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Chlorobenzene	ND	ug/L	1.0	1		02/22/24 10:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/22/24 10:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/22/24 10:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/22/24 10:32	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 10:32	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/22/24 10:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/22/24 10:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/22/24 10:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/24 10:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 10:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/22/24 10:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/22/24 10:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 10:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/22/24 10:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/22/24 10:32	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/22/24 10:32	75-09-2	
Styrene	ND	ug/L	1.0	1		02/22/24 10:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 10:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/22/24 10:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/22/24 10:32	127-18-4	
Toluene	ND	ug/L	1.0	1		02/22/24 10:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/22/24 10:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/22/24 10:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/22/24 10:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/22/24 10:32	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/24 10:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/22/24 10:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/22/24 10:32	460-00-4	
Dibromofluoromethane (S)	98	%.	82-128	1		02/22/24 10:32	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/22/24 10:32	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**416**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**416**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**854**	mg/L	10.0	1		02/21/24 10:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**393**	mg/L	10.0	1		02/21/24 08:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Sample: MW-21 **Lab ID: 50365973005** Collected: 02/14/24 09:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**0.26**	mg/L	0.10	1		02/16/24 02:19	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/24 12:01	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 16:08	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 775813
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002

METHOD BLANK: 3551522 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 12:05	
Fluoride	mg/L	ND	0.10	02/23/24 12:05	
Sulfate	mg/L	ND	0.25	02/23/24 12:05	

LABORATORY CONTROL SAMPLE: 3551523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551524 3551525

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	92.0	25	25	114	114	88	89	80-120	0	15	
Fluoride	mg/L	0.37	1	1	1.3	1.3	97	96	80-120	1	15	
Sulfate	mg/L	ND	5	5	4.8	4.8	92	91	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776393
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973003, 50365973004, 50365973005

METHOD BLANK: 3554055 Matrix: Water
Associated Lab Samples: 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/21/24 19:54	
Fluoride	mg/L	ND	0.10	02/21/24 19:54	
Sulfate	mg/L	ND	0.25	02/21/24 19:54	

LABORATORY CONTROL SAMPLE: 3554056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554057 3554058

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	225	25	25	247	244	89	77	80-120	1	15	M0
Fluoride	mg/L	0.21	1	1	1.3	1.3	108	107	80-120	1	15	
Sulfate	mg/L	22.6	5	5	27.3	26.3	94	75	80-120	4	15	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 775845
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3551685 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	02/20/24 17:22	
Cobalt	ug/L	ND	10.0	02/20/24 17:22	
Copper	ug/L	ND	20.0	02/20/24 17:22	
Lead	ug/L	ND	5.0	02/20/24 17:22	
Lithium	ug/L	ND	10.0	02/20/24 17:22	
Nickel	ug/L	ND	10.0	02/20/24 17:22	
Zinc	ug/L	ND	20.0	02/20/24 17:22	

LABORATORY CONTROL SAMPLE: 3551686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	980	98	80-120	
Cobalt	ug/L	1000	994	99	80-120	
Copper	ug/L	1000	965	97	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	996	100	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	1310	1000	1000	2260	2280	95	97	75-125	1	20	
Cobalt	ug/L	ND	1000	1000	964	968	96	96	75-125	0	20	
Copper	ug/L	22.7	1000	1000	977	981	95	96	75-125	0	20	
Lead	ug/L	16.5	1000	1000	930	933	91	92	75-125	0	20	
Lithium	ug/L	27.2	1000	1000	1020	1030	99	101	75-125	2	20	
Nickel	ug/L	31.6	1000	1000	978	982	95	95	75-125	0	20	
Zinc	ug/L	62.4	1000	1000	1070	1070	101	101	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551689 3551690

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	743	1000	1000	1730	1720	99	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551689 3551690

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	ug/L	ND	1000	1000	977	963	97	96	75-125	1	20	
Copper	ug/L	ND	1000	1000	961	962	96	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	928	925	93	92	75-125	0	20	
Lithium	ug/L	26.5	1000	1000	1030	1030	100	101	75-125	0	20	
Nickel	ug/L	13.1	1000	1000	981	977	97	96	75-125	0	20	
Zinc	ug/L	ND	1000	1000	1040	1040	104	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776784
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3555701 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/23/24 23:07	
Calcium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Iron, Dissolved	ug/L	ND	100	02/23/24 23:07	
Lithium, Dissolved	ug/L	ND	10.0	02/23/24 23:07	
Magnesium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Manganese, Dissolved	ug/L	ND	10.0	02/23/24 23:07	
Potassium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Sodium, Dissolved	ug/L	ND	500	02/23/24 23:07	

LABORATORY CONTROL SAMPLE: 3555702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	950	95	80-120	
Calcium, Dissolved	ug/L	10000	9990	100	80-120	
Iron, Dissolved	ug/L	10000	9700	97	80-120	
Lithium, Dissolved	ug/L	1000	1000	100	80-120	
Magnesium, Dissolved	ug/L	10000	9670	97	80-120	
Manganese, Dissolved	ug/L	1000	973	97	80-120	
Potassium, Dissolved	ug/L	10000	9640	96	80-120	
Sodium, Dissolved	ug/L	10000	9510	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555703 3555704

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	944	948	94	95	75-125	0	20	
Calcium, Dissolved	ug/L	129000	10000	10000	141000	141000	121	123	75-125	0	20	
Iron, Dissolved	ug/L	2260	10000	10000	11700	11700	94	95	75-125	0	20	
Lithium, Dissolved	ug/L	25.0	1000	1000	997	1000	97	98	75-125	1	20	
Magnesium, Dissolved	ug/L	44300	10000	10000	54700	54800	104	105	75-125	0	20	
Manganese, Dissolved	ug/L	880	1000	1000	1830	1830	95	95	75-125	0	20	
Potassium, Dissolved	ug/L	39300	10000	10000	50000	50000	107	107	75-125	0	20	
Sodium, Dissolved	ug/L	84900	10000	10000	96300	96500	114	116	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776022
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3552722 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/21/24 04:40	
Vanadium	ug/L	ND	10.0	02/21/24 04:40	

LABORATORY CONTROL SAMPLE: 3552723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.1	95	80-120	
Vanadium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552724 3552725

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	92.3	40	40	125	125	81	82	75-125	0	20	
Vanadium	ug/L	ND	40	40	49.8	49.7	105	104	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552726 3552727

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	11.0	40	40	48.3	47.4	93	91	75-125	2	20	
Vanadium	ug/L	ND	40	40	41.5	41.6	103	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.2	103	80-120	
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Barium, Dissolved	ug/L	40	40.4	101	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Cobalt, Dissolved	ug/L	40	41.4	103	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	
Nickel, Dissolved	ug/L	40	41.2	103	80-120	
Thallium, Dissolved	ug/L	40	40.9	102	80-120	
Zinc, Dissolved	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	43.4	42.6	108	106	75-125	2	20	
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	
Barium, Dissolved	ug/L	1200	40	40	1220	1220	62	49	75-125	0	20	P6
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Cobalt, Dissolved	ug/L	2.1	40	40	40.7	39.9	96	95	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	
Nickel, Dissolved	ug/L	10.6	40	40	48.8	48.9	95	96	75-125	0	20	
Thallium, Dissolved	ug/L	ND	40	40	43.1	42.8	107	106	75-125	1	20	
Zinc, Dissolved	ug/L	ND	40	40	38.7	38.8	92	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776369
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973003, 50365973004, 50365973005

METHOD BLANK: 3553927 Matrix: Water
Associated Lab Samples: 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 02:09	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 02:09	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 02:09	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 02:09	
Selenium, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 02:09	

LABORATORY CONTROL SAMPLE: 3553928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.8	104	80-120	
Arsenic, Dissolved	ug/L	40	37.9	95	80-120	
Barium, Dissolved	ug/L	40	39.5	99	80-120	
Chromium, Dissolved	ug/L	40	42.2	106	80-120	
Cobalt, Dissolved	ug/L	40	41.5	104	80-120	
Copper, Dissolved	ug/L	40	40.1	100	80-120	
Nickel, Dissolved	ug/L	40	40.0	100	80-120	
Selenium, Dissolved	ug/L	40	40.2	101	80-120	
Thallium, Dissolved	ug/L	40	41.3	103	80-120	
Zinc, Dissolved	ug/L	40	40.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553929 3553930

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	42.4	42.8	106	107	75-125	1	20	
Arsenic, Dissolved	ug/L	11.5	40	40	48.8	49.4	93	95	75-125	1	20	
Barium, Dissolved	ug/L	728	40	40	779	767	128	98	75-125	2	20	P6
Chromium, Dissolved	ug/L	ND	40	40	40.0	40.3	99	100	75-125	1	20	
Cobalt, Dissolved	ug/L	4.1	40	40	41.5	41.4	93	93	75-125	0	20	
Copper, Dissolved	ug/L	0.99	40	40	35.1	35.3	85	86	75-125	1	20	
Nickel, Dissolved	ug/L	13.9	40	40	48.6	49.4	87	89	75-125	2	20	
Selenium, Dissolved	ug/L	ND	40	40	37.7	39.0	94	97	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553929 3553930

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Thallium, Dissolved	ug/L	ND	40	40	44.0	43.6	108	107	75-125	1	20	
Zinc, Dissolved	ug/L	ND	40	40	35.6	36.1	85	86	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776744
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3555459 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,1-Dichloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/24 04:38	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/22/24 04:38	
1,2-Dichloroethane	ug/L	ND	1.0	02/22/24 04:38	
1,2-Dichloropropane	ug/L	ND	1.0	02/22/24 04:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/22/24 04:38	
Benzene	ug/L	ND	1.0	02/22/24 04:38	
Bromomethane	ug/L	ND	2.0	02/22/24 04:38	
Carbon tetrachloride	ug/L	ND	1.0	02/22/24 04:38	
Chlorobenzene	ug/L	ND	1.0	02/22/24 04:38	
Chloroethane	ug/L	ND	1.0	02/22/24 04:38	
Chloroform	ug/L	ND	1.0	02/22/24 04:38	
Chloromethane	ug/L	ND	1.0	02/22/24 04:38	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/22/24 04:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/22/24 04:38	
Ethylbenzene	ug/L	ND	1.0	02/22/24 04:38	
Methylene Chloride	ug/L	ND	3.0	02/22/24 04:38	
Styrene	ug/L	ND	1.0	02/22/24 04:38	
Tetrachloroethene	ug/L	ND	1.0	02/22/24 04:38	
Toluene	ug/L	ND	1.0	02/22/24 04:38	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/22/24 04:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/22/24 04:38	
Trichloroethene	ug/L	ND	1.0	02/22/24 04:38	
Trichlorofluoromethane	ug/L	ND	5.0	02/22/24 04:38	
Vinyl chloride	ug/L	ND	2.0	02/22/24 04:38	
Xylene (Total)	ug/L	ND	2.0	02/22/24 04:38	
4-Bromofluorobenzene (S)	%.	93	79-124	02/22/24 04:38	
Dibromofluoromethane (S)	%.	97	82-128	02/22/24 04:38	
Toluene-d8 (S)	%.	99	73-122	02/22/24 04:38	

LABORATORY CONTROL SAMPLE: 3555460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	81-130	
1,1,1-Trichloroethane	ug/L	50	48.6	97	76-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

LABORATORY CONTROL SAMPLE: 3555460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-126	
1,1,2-Trichloroethane	ug/L	50	48.9	98	79-124	
1,1-Dichloroethane	ug/L	50	48.7	97	76-123	
1,1-Dichloroethene	ug/L	50	50.2	100	73-133	
1,2-Dichlorobenzene	ug/L	50	50.2	100	79-123	
1,2-Dichloroethane	ug/L	50	45.7	91	70-124	
1,2-Dichloropropane	ug/L	50	47.6	95	74-128	
1,4-Dichlorobenzene	ug/L	50	50.2	100	77-120	
Benzene	ug/L	50	49.2	98	74-124	
Bromomethane	ug/L	50	40.7	81	10-183	
Carbon tetrachloride	ug/L	50	48.2	96	78-132	
Chlorobenzene	ug/L	50	49.9	100	77-121	
Chloroethane	ug/L	50	54.9	110	43-140	
Chloroform	ug/L	50	48.5	97	75-118	
Chloromethane	ug/L	50	44.3	89	45-130	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	76-125	
cis-1,3-Dichloropropene	ug/L	50	46.2	92	76-132	
Ethylbenzene	ug/L	50	50.5	101	74-125	
Methylene Chloride	ug/L	50	50.0	100	77-126	
Styrene	ug/L	50	50.4	101	81-129	
Tetrachloroethene	ug/L	50	51.4	103	73-132	
Toluene	ug/L	50	49.5	99	72-119	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	74-125	
trans-1,3-Dichloropropene	ug/L	50	43.6	87	75-132	
Trichloroethene	ug/L	50	49.7	99	75-127	
Trichlorofluoromethane	ug/L	50	53.8	108	64-136	
Vinyl chloride	ug/L	50	54.4	109	48-133	
Xylene (Total)	ug/L	150	151	100	73-123	
4-Bromofluorobenzene (S)	%.			93	79-124	
Dibromofluoromethane (S)	%.			100	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555461 3555462

Parameter	Units	50365885002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<1.0	50	50	49.5	48.8	99	98	60-150	1	20	
1,1,1-Trichloroethane	ug/L	<1.0	50	50	52.1	51.2	104	102	63-138	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	48.1	47.2	96	94	58-146	2	20	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	49.2	48.6	98	97	63-142	1	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	51.1	50.0	102	100	64-138	2	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	53.1	52.1	106	104	65-139	2	20	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	50.8	49.4	102	99	50-136	3	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	47.1	46.9	94	94	55-146	0	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	49.1	48.1	98	96	66-134	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555461 3555462

Parameter	Units	50365885002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	<1.0	50	50	50.7	48.7	101	97	50-131	4	20	
Benzene	ug/L	<1.0	50	50	51.6	50.6	103	101	65-137	2	20	
Bromomethane	ug/L	<5.0	50	50	40.2	47.2	80	94	10-169	16	20	
Carbon tetrachloride	ug/L	<1.0	50	50	51.8	50.7	104	101	65-156	2	20	
Chlorobenzene	ug/L	<1.0	50	50	51.6	51.0	103	102	54-135	1	20	
Chloroethane	ug/L	<5.0	50	50	57.4	57.0	115	114	46-142	1	20	
Chloroform	ug/L	<1.0	50	50	51.0	49.9	102	100	64-133	2	20	
Chloromethane	ug/L	<5.0	50	50	46.0	45.0	92	90	30-139	2	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	53.2	52.3	106	105	59-141	2	20	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	45.3	44.7	91	89	57-141	1	20	
Ethylbenzene	ug/L	<1.0	50	50	53.0	52.3	106	105	50-143	1	20	
Methylene Chloride	ug/L	<5.0	50	50	49.5	48.8	99	98	53-126	1	20	
Styrene	ug/L	<1.0	50	50	51.8	50.5	104	101	57-141	3	20	
Tetrachloroethene	ug/L	<1.0	50	50	54.3	52.9	109	106	43-149	3	20	
Toluene	ug/L	<1.0	50	50	52.2	51.0	104	102	57-137	2	20	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	51.8	51.0	104	102	63-133	2	20	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	42.4	42.4	85	85	56-140	0	20	
Trichloroethene	ug/L	<1.0	50	50	52.5	51.2	105	102	52-145	3	20	
Trichlorofluoromethane	ug/L	<5.0	50	50	56.7	55.9	113	112	52-144	1	20	
Vinyl chloride	ug/L	<5.0	50	50	57.7	56.9	115	114	43-139	1	20	
Xylene (Total)	ug/L	<3.0	150	150	157	153	105	102	52-137	3	20	
4-Bromofluorobenzene (S)	%.						94	94	79-124			
Dibromofluoromethane (S)	%.						100	100	82-128			
Toluene-d8 (S)	%.						97	99	73-122			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555463 3555464

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	48.2	47.2	96	94	60-150	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	50.5	49.9	101	100	63-138	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.3	45.3	95	91	58-146	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	48.5	47.1	97	94	63-142	3	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.7	48.7	99	97	64-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.3	51.0	103	102	65-139	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.0	47.4	100	95	50-136	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	46.7	45.3	93	91	55-146	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.4	47.2	97	94	66-134	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.5	47.9	101	96	50-131	5	20	
Benzene	ug/L	ND	50	50	50.0	49.1	100	98	65-137	2	20	
Bromomethane	ug/L	ND	50	50	49.4	48.4	99	97	10-169	2	20	
Carbon tetrachloride	ug/L	ND	50	50	50.9	49.9	102	100	65-156	2	20	
Chlorobenzene	ug/L	ND	50	50	50.8	49.6	102	99	54-135	2	20	
Chloroethane	ug/L	ND	50	50	55.9	54.1	112	108	46-142	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555463 3555464

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroform	ug/L	ND	50	50	49.3	48.5	99	97	64-133	2	20	
Chloromethane	ug/L	ND	50	50	44.2	43.7	88	87	30-139	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.0	50.8	104	102	59-141	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.8	43.5	90	87	57-141	3	20	
Ethylbenzene	ug/L	ND	50	50	51.7	50.4	103	101	50-143	3	20	
Methylene Chloride	ug/L	ND	50	50	48.2	46.6	96	93	53-126	3	20	
Styrene	ug/L	ND	50	50	50.3	49.2	101	98	57-141	2	20	
Tetrachloroethene	ug/L	ND	50	50	53.2	52.9	106	106	43-149	1	20	
Toluene	ug/L	ND	50	50	50.3	49.3	100	99	57-137	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.4	49.9	101	100	63-133	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.2	41.2	84	82	56-140	3	20	
Trichloroethene	ug/L	ND	50	50	50.8	50.4	102	101	52-145	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	55.2	53.1	110	106	52-144	4	20	
Vinyl chloride	ug/L	ND	50	50	56.2	54.2	112	108	43-139	4	20	
Xylene (Total)	ug/L	ND	150	150	153	149	102	100	52-137	2	20	
4-Bromofluorobenzene (S)	%.						94	94	79-124			
Dibromofluoromethane (S)	%.						101	100	82-128			
Toluene-d8 (S)	%.						98	98	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776263
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002

METHOD BLANK: 3553541 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	

LABORATORY CONTROL SAMPLE: 3553542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3553543

Parameter	Units	50365977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	324	325	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	324	325	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553544

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	467	466	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	467	466	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776264
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973003, 50365973004, 50365973005

METHOD BLANK: 3553545 Matrix: Water
Associated Lab Samples: 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	

LABORATORY CONTROL SAMPLE: 3553546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3553547

Parameter	Units	50365978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	956	972	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	956	972	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553548

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	439	447	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	439	447	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 775850
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776531 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973003, 50365973004, 50365973005

METHOD BLANK: 3554570 Matrix: Water
Associated Lab Samples: 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/21/24 10:17	

LABORATORY CONTROL SAMPLE: 3554571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3554572

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	875	869	1	10	

SAMPLE DUPLICATE: 3554573

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	1000	1080	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776532 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3554574 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:48	

LABORATORY CONTROL SAMPLE: 3554575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3554576

Parameter	Units	50365973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	859	855	0	10	

SAMPLE DUPLICATE: 3554577

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	850	851	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 775839
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973004, 50365973005

METHOD BLANK: 3551668 Matrix: Water
Associated Lab Samples: 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 02:10	

LABORATORY CONTROL SAMPLE: 3551669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 3551672

Parameter	Units	50365893003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.31	1	1.4	108	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 777739
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3559702 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 11:02	

LABORATORY CONTROL SAMPLE: 3559703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559704 3559705

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	3.2	5	5	8.0	8.0	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559706 3559707

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	4.9	10	10	14.9	14.9	101	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

QC Batch: 776310
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

METHOD BLANK: 3553688 Matrix: Water
Associated Lab Samples: 50365973001, 50365973002, 50365973003, 50365973004, 50365973005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/20/24 15:35	

LABORATORY CONTROL SAMPLE: 3553689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.055	110	90-110	L3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553690 3553691

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.25	0.25	0.29	0.28	112	107	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553692 3553693

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.094	0.054	183	104	90-110	53	20	M3,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

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

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365973001	**MW-119S**	EPA 9056	775813		
50365973002	**MW-19D**	EPA 9056	775813		
50365973003	**MW-19S**	EPA 9056	776393		
50365973004	**MW-20**	EPA 9056	776393		
50365973005	**MW-21**	EPA 9056	776393		
50365973001	**MW-119S**	EPA 3010	775845	EPA 6010	776475
50365973002	**MW-19D**	EPA 3010	775845	EPA 6010	776475
50365973003	**MW-19S**	EPA 3010	775845	EPA 6010	776475
50365973004	**MW-20**	EPA 3010	775845	EPA 6010	776475
50365973005	**MW-21**	EPA 3010	775845	EPA 6010	776475
50365973001	**MW-119S**	EPA 3010	776784	EPA 6010	777215
50365973002	**MW-19D**	EPA 3010	776784	EPA 6010	777215
50365973003	**MW-19S**	EPA 3010	776784	EPA 6010	777215
50365973004	**MW-20**	EPA 3010	776784	EPA 6010	777215
50365973005	**MW-21**	EPA 3010	776784	EPA 6010	777215
50365973001	**MW-119S**	EPA 200.2	776022	EPA 6020	776509
50365973002	**MW-19D**	EPA 200.2	776022	EPA 6020	776509
50365973003	**MW-19S**	EPA 200.2	776022	EPA 6020	776509
50365973004	**MW-20**	EPA 200.2	776022	EPA 6020	776509
50365973005	**MW-21**	EPA 200.2	776022	EPA 6020	776509
50365973001	**MW-119S**	EPA 200.2	776028	EPA 6020	776510
50365973002	**MW-19D**	EPA 200.2	776028	EPA 6020	776510
50365973003	**MW-19S**	EPA 200.2	776369	EPA 6020	776520
50365973004	**MW-20**	EPA 200.2	776369	EPA 6020	776520
50365973005	**MW-21**	EPA 200.2	776369	EPA 6020	776520
50365973001	**MW-119S**	EPA 5030B/8260	776744		
50365973002	**MW-19D**	EPA 5030B/8260	776744		
50365973003	**MW-19S**	EPA 5030B/8260	776744		
50365973004	**MW-20**	EPA 5030B/8260	776744		
50365973005	**MW-21**	EPA 5030B/8260	776744		
50365973001	**MW-119S**	SM 2320B	776263		
50365973002	**MW-19D**	SM 2320B	776263		
50365973003	**MW-19S**	SM 2320B	776264		
50365973004	**MW-20**	SM 2320B	776264		
50365973005	**MW-21**	SM 2320B	776264		
50365973001	**MW-119S**	SM 2540B	775850		
50365973002	**MW-19D**	SM 2540B	775850		
50365973003	**MW-19S**	SM 2540B	776531		
50365973004	**MW-20**	SM 2540B	776531		
50365973005	**MW-21**	SM 2540B	776531		
50365973001	**MW-119S**	SM 2540C	776532		
50365973002	**MW-19D**	SM 2540C	776532		
50365973003	**MW-19S**	SM 2540C	776532		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley South of Tracks
Pace Project No.: 50365973

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365973004	**MW-20**	SM 2540C	776532		
50365973005	**MW-21**	SM 2540C	776532		
50365973004	**MW-20**	EPA 353.2	775839		
50365973005	**MW-21**	EPA 353.2	775839		
50365973001	**MW-119S**	SM 4500-NH3 G	777739		
50365973002	**MW-19D**	SM 4500-NH3 G	777739		
50365973003	**MW-19S**	SM 4500-NH3 G	777739		
50365973004	**MW-20**	SM 4500-NH3 G	777739		
50365973005	**MW-21**	SM 4500-NH3 G	777739		
50365973001	**MW-119S**	EPA 9066	776310	EPA 9066	776439
50365973002	**MW-19D**	EPA 9066	776310	EPA 9066	776439
50365973003	**MW-19S**	EPA 9066	776310	EPA 9066	776439
50365973004	**MW-20**	EPA 9066	776310	EPA 9066	776439
50365973005	**MW-21**	EPA 9066	776310	EPA 9066	776439

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50365973

50365973

Company Name:	Republic Services - Indiana Landfills	Contact/Report To:	Reuter, Steve
Street Address:	5154 E 65th St, Indianapolis, IN 46220	Phone #:	317-347-9590
		E-Mail:	sreuter@sescogroup.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Wabash Valley ~~Gill Residential Well~~ South of Tracks kh021624	Invoice To:	
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	IN Alkalinity 2320B, IC 9056 (F, Cl, SO4)	IN Ammonia 4500	IN Metals, Field Filtered	IN Metals, Total	IN TS, TDS	IN VOC by 8260	Sample Comment
MS/MSD (MW-19S)	WT				2-14-24	1040				X	X	X	X	X	X	
MW-119S	WT					—				X	X	X	X	X	X	001
MW-19D	WT					1020				X	X	X	X	X	X	002
MW-19S	WT					1040				X	X	X	X	X	X	003
MW-20	WT					1120				X	X	X	X	X	X	004
MW-21	WT					945				X	X	X	X	X	X	005

see attached correct COC following this version. kh021624

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Kenneth Hunt**
AcctNum / Client ID:
Table #:
Profile / Template: **5235 / 4**
Prelog / Bottle Ord. ID: **1164930**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) RYAN FRANKSEN
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	IR	-.1	0.6	0.5	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2.15.24 1145	PACE	2/15/24 1345
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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

Page: 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention:	AP
Address:	5154 East 65th Street	Copy To:		Company Name:	Republic Services
	Indianapolis, IN 46220			Address:	
Email:	sreuter@sescogroup.com	Purchase Order #:		Pace Quote:	
Phone:	317-752-3435 Fax:	Project Name:	Wabash Valley South of Tracks	Pace Project Manager:	kenneth.hunt@pacelabs.com
Requested Due Date:	10BD	Project #:		Pace Profile #:	5235 / 4

Regulatory Agency	State / Location
	IN

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	Total Metals 6010/6020/ 747	Diss. Metals 6010/6020/747	Nitrate 353.2	9056 (Chloride, Fluoride, Sulfate), Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Total Phenolics 9066				Residual Chlorine (Y/N)	
																		Requested Analysis Filtered (Y/N)													
1	MW-19S	WT	G						9	2	2	2	3						X	X	X		X	X	X	X					
2	MW-19D	WT	G						9	2	2	2	3						X	X	X		X	X	X	X					
3	MW-20	WT	G						10	3	2	2	3						X	X	X	X	X	X	X	X					
4	MW-21	WT	G						10	3	2	2	3						X	X	X	X	X	X	X	X					
5	MW-119S	WT	G						9	2	2	2	3						X	X	X		X	X	X	X					
6	MS/MSD {PARENT SAMPLE:_____)	WT	G						10	3	2	2	3						Extra volume for designated MS/MSD. Do NOT Log as a sample but as RQS for the Parent sample.												
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Nitrate is a short hold							
See PM for metals Assessment List							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: **DATE Signed:**

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMK

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE | COMMENTS | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? **Analysis:**		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1700	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		✓

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Circle: **HNO3 (<2)** **H2SO4 (<2)** **NaOH (>10)** **NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	✓		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)		✓	
Headspace Wisconsin Sulfide?			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details		✓	
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓

COMMENTS: 0.6/0.8, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3
2.5/2.4, 0.6/0.5 ~~Line 4 (495) combined to line 1 on COC~~ 1L2/15 . TW 2/15/24
~~AAW2HSAL not included on COC. TW 2/15/24~~ TW 2/15/24
Nitrates (unpres) received in BP3U (with 3532 acode on label). 1L2/15

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on containers that are out of conformance **

			MeOH (only) / SBS / DI					AMBER GLASS							PLASTIC									OTHER				Nitric / Red	Sulfuric / Yellow	Sodium Hydroxide / Green	Sodium Hydroxide/ ZnAc / Black
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit	Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																															
2				3								1					2	1	1	1	1						WT	✓	✓		
3				↓								↓					↓	↓	↓	↓	↓						↓	✓	✓		
4				6								2					4	[illegible] ~~2~~1	2	2	2						↓	✓	✓		
5				3								1					2	1	1	1	1						↓	✓	✓		
6				↓								↓					↓	↓	↓	↓	↓						↓	✓	✓		
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

F-IN-Q-270-rev.18, 26Jun2023

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365974001	**MW-111SAL**	Water	02/14/24 13:40	02/15/24 13:45
50365974002	**MW-16**	Water	02/15/24 09:10	02/15/24 13:45
50365974003	**MW-17**	Water	02/15/24 09:50	02/15/24 13:45
50365974004	**MW-2R**	Water	02/14/24 16:10	02/15/24 13:45
50365974005	**MW-3D**	Water	02/14/24 16:50	02/15/24 13:45
50365974006	**MW-3DR**	Water	02/15/24 08:20	02/15/24 13:45
50365974007	**SP-1**	Water	02/14/24 14:35	02/15/24 13:45
50365974008	**SP-2**	Water	02/14/24 15:25	02/15/24 13:45
50365974009	**TRIP BLANK**	Water	02/14/24 08:00	02/15/24 13:45

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365974001	**MW-111SAL**	EPA 9056	KBB	3
		EPA 6010	ABH	9
		EPA 6010	JPK	9
		EPA 6020	DMT	4
		EPA 6020	MGM	13
		EPA 7470	EAE	1
		EPA 7470	EAE	1
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365974002	**MW-16**	EPA 9056	KBB	3
		EPA 6010	ABH	8
		EPA 6010	JPK	8
		EPA 6020	DMT	4
		EPA 6020	MGM	9
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	MMS	1
		SM 4500-NH3 G	OAS	1
50365974003	**MW-17**	EPA 9056	KBB	3
		EPA 6010	ABH	6
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	MGM	8
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365974004	**MW-2R**	EPA 9056	KBB	3
		EPA 6010	ABH	8
		EPA 6010	JPK	8
		EPA 6020	DMT	3
		EPA 6020	MGM	8
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365974005	**MW-3D**	EPA 9056	KBB	3
		EPA 6010	ABH	3
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	MGM	8
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	MMS	1
		SM 4500-NH3 G	OAS	1
50365974006	**MW-3DR**	EPA 9056	KBB	3
		EPA 6010	ABH	3
		EPA 6010	JPK	8
		EPA 6020	DMT	1
		EPA 6020	MGM	6
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365974007	**SP-1**	EPA 9056	KBB	3
		EPA 6010	ABH	9
		EPA 6010	JPK	9
		EPA 6020	DMT	4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020	DMT	13
		EPA 7470	EAE	1
		EPA 7470	EAE	1
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365974008	**SP-2**	EPA 9056	KBB	3
		EPA 6010	ABH	9
		EPA 6010	JPK	9
		EPA 6020	DMT	4
		EPA 6020	DMT	13
		EPA 7470	EAE	1
		EPA 7470	EAE	1
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		EPA 353.2	DAW	1
		SM 4500-NH3 G	OAS	1
		EPA 9066	ZM	1
50365974009	**TRIP BLANK**	EPA 5030B/8260	ALA	33

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365974001	**MW-111SAL**					
EPA 9056	Chloride	12.6	mg/L	0.25	02/24/24 00:01	
EPA 9056	Fluoride	0.82	mg/L	0.10	02/24/24 00:01	
EPA 9056	Sulfate	38.7	mg/L	0.25	02/24/24 00:01	
EPA 6010	Barium	220	ug/L	10.0	02/20/24 17:45	
EPA 6010	Cadmium	3.1	ug/L	2.0	02/20/24 17:45	
EPA 6010	Lead	12.8	ug/L	5.0	02/20/24 17:45	
EPA 6010	Lithium	19.5	ug/L	10.0	02/20/24 17:45	
EPA 6010	Calcium, Dissolved	90500	ug/L	500	02/23/24 23:12	
EPA 6010	Iron, Dissolved	1630	ug/L	100	02/23/24 23:12	
EPA 6010	Lithium, Dissolved	21.6	ug/L	10.0	02/23/24 23:12	
EPA 6010	Magnesium, Dissolved	36700	ug/L	500	02/23/24 23:12	
EPA 6010	Manganese, Dissolved	44.6	ug/L	10.0	02/23/24 23:12	
EPA 6010	Potassium, Dissolved	2120	ug/L	500	02/23/24 23:12	
EPA 6010	Sodium, Dissolved	13300	ug/L	500	02/23/24 23:12	
EPA 6020	Arsenic	27.5	ug/L	5.0	02/21/24 05:27	
EPA 6020	Arsenic, Dissolved	3.5	ug/L	1.0	02/21/24 19:38	
EPA 6020	Barium, Dissolved	167	ug/L	2.0	02/21/24 19:38	
EPA 6020	Copper, Dissolved	0.51	ug/L	0.50	02/21/24 19:38	
SM 2320B	Alkalinity, Total as CaCO3	357	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	357	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	615	mg/L	10.0	02/16/24 10:47	
SM 2540C	Total Dissolved Solids	397	mg/L	10.0	02/21/24 08:50	
EPA 353.2	Nitrogen, Nitrate	0.23	mg/L	0.10	02/16/24 02:43	
SM 4500-NH3 G	Nitrogen, Ammonia	0.20	mg/L	0.10	02/28/24 11:29	
50365974002	**MW-16**					
EPA 9056	Chloride	1170	mg/L	25.0	02/24/24 01:38	
EPA 9056	Fluoride	0.18	mg/L	0.10	02/24/24 01:00	
EPA 9056	Sulfate	141	mg/L	2.5	02/24/24 01:19	
EPA 6010	Barium	502	ug/L	10.0	02/20/24 17:48	
EPA 6010	Lithium	12.5	ug/L	10.0	02/20/24 17:48	
EPA 6010	Nickel	19.0	ug/L	10.0	02/20/24 17:48	
EPA 6010	Calcium, Dissolved	377000	ug/L	2500	02/23/24 23:48	
EPA 6010	Iron, Dissolved	2080	ug/L	100	02/23/24 23:14	
EPA 6010	Lithium, Dissolved	15.7	ug/L	10.0	02/23/24 23:14	
EPA 6010	Magnesium, Dissolved	142000	ug/L	500	02/23/24 23:14	
EPA 6010	Manganese, Dissolved	2520	ug/L	10.0	02/23/24 23:14	
EPA 6010	Potassium, Dissolved	88700	ug/L	500	02/23/24 23:14	
EPA 6010	Sodium, Dissolved	389000	ug/L	2500	02/23/24 23:48	
EPA 6020	Arsenic	5.8	ug/L	5.0	02/21/24 05:34	
EPA 6020	Arsenic, Dissolved	4.4	ug/L	1.0	02/21/24 19:42	
EPA 6020	Barium, Dissolved	530	ug/L	10.0	02/21/24 20:13	
EPA 6020	Cobalt, Dissolved	5.3	ug/L	1.0	02/21/24 19:42	
EPA 6020	Copper, Dissolved	3.1	ug/L	0.50	02/21/24 19:42	
EPA 6020	Nickel, Dissolved	20.1	ug/L	2.0	02/21/24 19:42	
EPA 6020	Zinc, Dissolved	4.3	ug/L	4.0	02/21/24 19:42	
SM 2320B	Alkalinity, Total as CaCO3	506	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	506	mg/L	10.0	02/20/24 00:02	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365974002	**MW-16**					
SM 2540B	Total Solids	3550	mg/L	40.0	02/21/24 10:23	
SM 2540C	Total Dissolved Solids	3270	mg/L	40.0	02/21/24 08:38	
SM 4500-NH3 G	Nitrogen, Ammonia	0.83	mg/L	0.10	02/28/24 11:33	
50365974003	**MW-17**					
EPA 9056	Chloride	71.7	mg/L	2.5	02/20/24 20:16	
EPA 9056	Fluoride	0.12	mg/L	0.10	02/20/24 19:57	
EPA 9056	Sulfate	48.6	mg/L	0.25	02/20/24 19:57	
EPA 6010	Barium	184	ug/L	10.0	02/20/24 17:54	
EPA 6010	Calcium, Dissolved	186000	ug/L	500	02/23/24 23:16	
EPA 6010	Magnesium, Dissolved	46800	ug/L	500	02/23/24 23:16	
EPA 6010	Manganese, Dissolved	111	ug/L	10.0	02/23/24 23:16	
EPA 6010	Potassium, Dissolved	6150	ug/L	500	02/23/24 23:16	
EPA 6010	Sodium, Dissolved	49700	ug/L	500	02/23/24 23:16	
EPA 6020	Barium, Dissolved	181	ug/L	2.0	02/21/24 19:45	
EPA 6020	Copper, Dissolved	4.5	ug/L	0.50	02/21/24 19:45	
EPA 6020	Nickel, Dissolved	6.3	ug/L	2.0	02/21/24 19:45	
SM 2320B	Alkalinity, Total as CaCO3	617	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	617	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	964	mg/L	10.0	02/21/24 10:23	
SM 2540C	Total Dissolved Solids	783	mg/L	10.0	02/21/24 08:38	
EPA 353.2	Nitrogen, Nitrate	1.4	mg/L	0.10	02/16/24 03:21	
SM 4500-NH3 G	Nitrogen, Ammonia	2.0	mg/L	0.10	02/28/24 11:35	
50365974004	**MW-2R**					
EPA 9056	Chloride	172	mg/L	2.5	02/20/24 20:55	
EPA 9056	Fluoride	0.16	mg/L	0.10	02/20/24 20:35	
EPA 9056	Sulfate	158	mg/L	2.5	02/20/24 20:55	
EPA 6010	Barium	340	ug/L	10.0	02/20/24 17:55	
EPA 6010	Calcium, Dissolved	249000	ug/L	1000	02/23/24 23:50	
EPA 6010	Iron, Dissolved	7920	ug/L	100	02/23/24 23:17	
EPA 6010	Magnesium, Dissolved	93000	ug/L	500	02/23/24 23:17	
EPA 6010	Manganese, Dissolved	792	ug/L	10.0	02/23/24 23:17	
EPA 6010	Potassium, Dissolved	1090	ug/L	500	02/23/24 23:17	
EPA 6010	Sodium, Dissolved	72600	ug/L	500	02/23/24 23:17	
EPA 6020	Arsenic	95.1	ug/L	5.0	02/21/24 05:41	
EPA 6020	Arsenic, Dissolved	36.7	ug/L	1.0	02/21/24 19:56	
EPA 6020	Barium, Dissolved	302	ug/L	4.0	02/21/24 20:19	
EPA 6020	Cobalt, Dissolved	1.1	ug/L	1.0	02/21/24 19:56	
EPA 6020	Copper, Dissolved	1.5	ug/L	0.50	02/21/24 19:56	
EPA 6020	Nickel, Dissolved	9.9	ug/L	2.0	02/21/24 19:56	
SM 2320B	Alkalinity, Total as CaCO3	741	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	741	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	1340	mg/L	20.0	02/21/24 10:17	
SM 2540C	Total Dissolved Solids	1260	mg/L	20.0	02/21/24 08:51	
SM 4500-NH3 G	Nitrogen, Ammonia	0.13	mg/L	0.10	02/28/24 11:37	
50365974005	**MW-3D**					
EPA 9056	Chloride	252	mg/L	25.0	02/20/24 22:51	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365974005	**MW-3D**					
EPA 9056	Fluoride	0.18	mg/L	0.10	02/20/24 22:12	
EPA 9056	Sulfate	1.2	mg/L	0.25	02/20/24 22:12	
EPA 6010	Barium	1480	ug/L	10.0	02/20/24 17:57	
EPA 6010	Lithium	20.6	ug/L	10.0	02/20/24 17:57	
EPA 6010	Nickel	27.3	ug/L	10.0	02/20/24 17:57	
EPA 6010	Calcium, Dissolved	143000	ug/L	500	02/23/24 23:19	
EPA 6010	Iron, Dissolved	261	ug/L	100	02/23/24 23:19	
EPA 6010	Lithium, Dissolved	20.3	ug/L	10.0	02/23/24 23:19	
EPA 6010	Magnesium, Dissolved	78200	ug/L	500	02/23/24 23:19	
EPA 6010	Manganese, Dissolved	135	ug/L	10.0	02/23/24 23:19	
EPA 6010	Potassium, Dissolved	32900	ug/L	500	02/23/24 23:19	
EPA 6010	Sodium, Dissolved	136000	ug/L	500	02/23/24 23:19	
EPA 6020	Arsenic	10.0	ug/L	5.0	02/21/24 05:51	
EPA 6020	Arsenic, Dissolved	4.2	ug/L	1.0	02/21/24 19:59	
EPA 6020	Barium, Dissolved	1560	ug/L	20.0	02/21/24 20:23	
EPA 6020	Cobalt, Dissolved	3.9	ug/L	1.0	02/21/24 19:59	
EPA 6020	Copper, Dissolved	5.1	ug/L	0.50	02/21/24 19:59	
EPA 6020	Nickel, Dissolved	27.5	ug/L	2.0	02/21/24 19:59	
EPA 6020	Zinc, Dissolved	29.3	ug/L	4.0	02/21/24 19:59	
EPA 5030B/8260	Chlorobenzene	2.7	ug/L	1.0	02/21/24 09:50	
SM 2320B	Alkalinity, Total as CaCO3	753	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	753	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	1180	mg/L	20.0	02/21/24 10:18	
SM 2540C	Total Dissolved Solids	1140	mg/L	20.0	02/21/24 08:51	
EPA 353.2	Nitrogen, Nitrate	0.27	mg/L	0.10	02/16/24 12:46	
SM 4500-NH3 G	Nitrogen, Ammonia	32.4	mg/L	1.0	02/28/24 11:44	
50365974006	**MW-3DR**					
EPA 9056	Chloride	246	mg/L	25.0	02/20/24 23:49	
EPA 9056	Fluoride	0.29	mg/L	0.10	02/20/24 23:10	
EPA 9056	Sulfate	6.0	mg/L	0.25	02/20/24 23:10	
EPA 6010	Barium	994	ug/L	10.0	02/20/24 17:58	
EPA 6010	Lithium	23.3	ug/L	10.0	02/20/24 17:58	
EPA 6010	Calcium, Dissolved	162000	ug/L	500	02/23/24 23:20	
EPA 6010	Iron, Dissolved	8870	ug/L	100	02/23/24 23:20	
EPA 6010	Lithium, Dissolved	27.9	ug/L	10.0	02/23/24 23:20	
EPA 6010	Magnesium, Dissolved	79800	ug/L	500	02/23/24 23:20	
EPA 6010	Manganese, Dissolved	116	ug/L	10.0	02/23/24 23:20	
EPA 6010	Potassium, Dissolved	24500	ug/L	500	02/23/24 23:20	
EPA 6010	Sodium, Dissolved	127000	ug/L	500	02/23/24 23:20	
EPA 6020	Arsenic	83.2	ug/L	5.0	02/21/24 05:54	
EPA 6020	Arsenic, Dissolved	90.4	ug/L	1.0	02/21/24 20:02	
EPA 6020	Barium, Dissolved	1080	ug/L	20.0	02/21/24 20:26	
EPA 6020	Copper, Dissolved	0.97	ug/L	0.50	02/21/24 20:02	
EPA 6020	Nickel, Dissolved	15.5	ug/L	2.0	02/21/24 20:02	
EPA 5030B/8260	Chlorobenzene	3.4	ug/L	1.0	02/21/24 10:20	
SM 2320B	Alkalinity, Total as CaCO3	676	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	676	mg/L	10.0	02/20/24 00:02	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365974006	**MW-3DR**					
SM 2540B	Total Solids	1160	mg/L	20.0	02/21/24 10:23	
SM 2540C	Total Dissolved Solids	1150	mg/L	20.0	02/21/24 08:39	
SM 4500-NH3 G	Nitrogen, Ammonia	18.6	mg/L	0.10	02/28/24 11:46	
50365974007	**SP-1**					
EPA 9056	Chloride	95.3	mg/L	2.5	02/21/24 04:01	
EPA 9056	Fluoride	0.38	mg/L	0.10	02/21/24 03:41	
EPA 9056	Sulfate	54.0	mg/L	2.5	02/21/24 04:01	
EPA 6010	Barium	372	ug/L	10.0	02/20/24 18:56	
EPA 6010	Lithium	12.7	ug/L	10.0	02/20/24 18:56	
EPA 6010	Calcium, Dissolved	121000	ug/L	500	02/23/24 23:31	
EPA 6010	Iron, Dissolved	1030	ug/L	100	02/23/24 23:31	
EPA 6010	Lithium, Dissolved	13.5	ug/L	10.0	02/23/24 23:31	
EPA 6010	Magnesium, Dissolved	38300	ug/L	500	02/23/24 23:31	
EPA 6010	Manganese, Dissolved	41.5	ug/L	10.0	02/23/24 23:31	
EPA 6010	Potassium, Dissolved	1830	ug/L	500	02/23/24 23:31	
EPA 6010	Sodium, Dissolved	31800	ug/L	500	02/23/24 23:31	
EPA 6020	Arsenic, Dissolved	2.4	ug/L	1.0	02/21/24 02:39	
EPA 6020	Barium, Dissolved	353	ug/L	6.0	02/21/24 04:14	
EPA 6020	Copper, Dissolved	0.90	ug/L	0.50	02/21/24 02:39	
SM 2320B	Alkalinity, Total as CaCO3	336	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	336	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	766	mg/L	10.0	02/21/24 10:18	
SM 2540C	Total Dissolved Solids	566	mg/L	10.0	02/21/24 08:55	
EPA 353.2	Nitrogen, Nitrate	0.23	mg/L	0.10	02/16/24 02:47	
SM 4500-NH3 G	Nitrogen, Ammonia	0.10	mg/L	0.10	02/28/24 11:55	
50365974008	**SP-2**					
EPA 9056	Chloride	153	mg/L	2.5	02/21/24 05:38	
EPA 9056	Fluoride	0.36	mg/L	0.10	02/21/24 05:18	
EPA 9056	Sulfate	68.5	mg/L	2.5	02/21/24 05:38	
EPA 6010	Barium	184	ug/L	10.0	02/20/24 18:58	
EPA 6010	Lithium	16.4	ug/L	10.0	02/20/24 18:58	
EPA 6010	Calcium, Dissolved	143000	ug/L	500	02/23/24 23:33	
EPA 6010	Iron, Dissolved	3430	ug/L	100	02/23/24 23:33	
EPA 6010	Lithium, Dissolved	20.6	ug/L	10.0	02/23/24 23:33	
EPA 6010	Magnesium, Dissolved	46600	ug/L	500	02/23/24 23:33	
EPA 6010	Manganese, Dissolved	298	ug/L	10.0	02/23/24 23:33	
EPA 6010	Potassium, Dissolved	5450	ug/L	500	02/23/24 23:33	
EPA 6010	Sodium, Dissolved	77300	ug/L	500	02/23/24 23:33	
EPA 6020	Arsenic, Dissolved	3.4	ug/L	1.0	02/21/24 02:42	CR
EPA 6020	Barium, Dissolved	234	ug/L	4.0	02/21/24 04:18	
EPA 6020	Copper, Dissolved	1.7	ug/L	0.50	02/21/24 02:42	
SM 2320B	Alkalinity, Total as CaCO3	450	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	450	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	812	mg/L	10.0	02/21/24 10:19	
SM 2540C	Total Dissolved Solids	762	mg/L	10.0	02/21/24 08:55	
EPA 353.2	Nitrogen, Nitrate	0.42	mg/L	0.10	02/16/24 02:49	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365974008	**SP-2**					
SM 4500-NH3 G	Nitrogen, Ammonia	1.7	mg/L	0.10	02/28/24 11:57	

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-111SAL **Lab ID: 50365974001** Collected: 02/14/24 13:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**12.6**	mg/L	0.25	1		02/24/24 00:01	16887-00-6	
Fluoride	**0.82**	mg/L	0.10	1		02/24/24 00:01	16984-48-8	
Sulfate	**38.7**	mg/L	0.25	1		02/24/24 00:01	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:54	7440-36-0	
Barium	**220**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:45	7440-39-3	
Cadmium	**3.1**	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:45	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:45	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:45	7440-50-8	
Lead	**12.8**	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:45	7439-92-1	
Lithium	**19.5**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:45	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:45	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:45	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:12	7440-43-9	
Calcium, Dissolved	**90500**	ug/L	500	1	02/22/24 20:40	02/23/24 23:12	7440-70-2	
Iron, Dissolved	**1630**	ug/L	100	1	02/22/24 20:40	02/23/24 23:12	7439-89-6	
Lithium, Dissolved	**21.6**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:12	7439-93-2	
Magnesium, Dissolved	**36700**	ug/L	500	1	02/22/24 20:40	02/23/24 23:12	7439-95-4	
Manganese, Dissolved	**44.6**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:12	7439-96-5	
Potassium, Dissolved	**2120**	ug/L	500	1	02/22/24 20:40	02/23/24 23:12	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:12	7440-22-4	
Sodium, Dissolved	**13300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:12	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	**27.5**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:27	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:27	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 05:27	7782-49-2	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 05:27	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:38	7440-36-0	
Arsenic, Dissolved	**3.5**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:38	7440-38-2	
Barium, Dissolved	**167**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:38	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 19:38	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:38	7440-48-4	
Copper, Dissolved	**0.51**	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:38	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:38	7439-92-1	
Nickel, Dissolved	ND	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:38	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-111SAL **Lab ID: 50365974001** Collected: 02/14/24 13:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:38	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:38	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:38	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:38	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:13	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/23/24 10:32	02/25/24 16:35	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 06:53	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 06:53	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 06:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 06:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 06:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 06:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 06:53	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 06:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 06:53	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 06:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 06:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 06:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 06:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 06:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 06:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 06:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 06:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 06:53	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 06:53	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 06:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 06:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 06:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 06:53	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 06:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 06:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 06:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 06:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 06:53	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 06:53	75-01-4	

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-111SAL **Lab ID: 50365974001** Collected: 02/14/24 13:40 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 06:53	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 06:53	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 06:53	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 06:53	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**357**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**357**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**615**	mg/L	10.0	1		02/16/24 10:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**397**	mg/L	10.0	1		02/21/24 08:50		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**0.23**	mg/L	0.10	1		02/16/24 02:43	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.20**	mg/L	0.10	1		02/28/24 11:29	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/26/24 11:30	02/28/24 16:31	64743-03-9	

Sample: MW-16 **Lab ID: 50365974002** Collected: 02/15/24 09:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**1170**	mg/L	25.0	100		02/24/24 01:38	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		02/24/24 01:00	16984-48-8	
Sulfate	**141**	mg/L	2.5	10		02/24/24 01:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-16 **Lab ID: 50365974002** Collected: 02/15/24 09:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**502**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:48	7440-39-3	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:48	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:48	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:48	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:48	7439-92-1	
Lithium	**12.5**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:48	7439-93-2	
Nickel	**19.0**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:48	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:48	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:14	7440-43-9	
Calcium, Dissolved	**377000**	ug/L	2500	5	02/22/24 20:40	02/23/24 23:48	7440-70-2	
Iron, Dissolved	**2080**	ug/L	100	1	02/22/24 20:40	02/23/24 23:14	7439-89-6	
Lithium, Dissolved	**15.7**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:14	7439-93-2	
Magnesium, Dissolved	**142000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:14	7439-95-4	
Manganese, Dissolved	**2520**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:14	7439-96-5	
Potassium, Dissolved	**88700**	ug/L	500	1	02/22/24 20:40	02/23/24 23:14	7440-09-7	
Sodium, Dissolved	**389000**	ug/L	2500	5	02/22/24 20:40	02/23/24 23:48	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**5.8**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:34	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:34	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 05:34	7782-49-2	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 05:34	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**4.4**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:42	7440-38-2	
Barium, Dissolved	**530**	ug/L	10.0	5	02/20/24 09:45	02/21/24 20:13	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 19:42	7440-47-3	
Cobalt, Dissolved	**5.3**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:42	7440-48-4	
Copper, Dissolved	**3.1**	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:42	7440-50-8	
Nickel, Dissolved	**20.1**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:42	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:42	7782-49-2	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:42	7440-31-5	N2
Zinc, Dissolved	**4.3**	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:42	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 08:22	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 08:22	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 08:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 08:22	108-90-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-16 **Lab ID: 50365974002** Collected: 02/15/24 09:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Chloroethane	ND	ug/L	1.0	1		02/21/24 08:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 08:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 08:22	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 08:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 08:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 08:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 08:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 08:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 08:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 08:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 08:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 08:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 08:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 08:22	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 08:22	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 08:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 08:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 08:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 08:22	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 08:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 08:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 08:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 08:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 08:22	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 08:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 08:22	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%.	79-124	1		02/21/24 08:22	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 08:22	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 08:22	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**506**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**506**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**3550**	mg/L	40.0	1		02/21/24 10:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**3270**	mg/L	40.0	1		02/21/24 08:38		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-16 **Lab ID: 50365974002** Collected: 02/15/24 09:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/24 12:51	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.83**	mg/L	0.10	1		02/28/24 11:33	7664-41-7	

Sample: MW-17 **Lab ID: 50365974003** Collected: 02/15/24 09:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**71.7**	mg/L	2.5	10		02/20/24 20:16	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	1		02/20/24 19:57	16984-48-8	
Sulfate	**48.6**	mg/L	0.25	1		02/20/24 19:57	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**184**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:54	7440-39-3	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:54	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:54	7439-92-1	
Lithium	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:54	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:54	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:54	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:16	7440-43-9	
Calcium, Dissolved	**186000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:16	7440-70-2	
Iron, Dissolved	ND	ug/L	100	1	02/22/24 20:40	02/23/24 23:16	7439-89-6	
Lithium, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:16	7439-93-2	
Magnesium, Dissolved	**46800**	ug/L	500	1	02/22/24 20:40	02/23/24 23:16	7439-95-4	
Manganese, Dissolved	**111**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:16	7439-96-5	
Potassium, Dissolved	**6150**	ug/L	500	1	02/22/24 20:40	02/23/24 23:16	7440-09-7	
Sodium, Dissolved	**49700**	ug/L	500	1	02/22/24 20:40	02/23/24 23:16	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:37	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:45	7440-38-2	
Barium, Dissolved	**181**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:45	7440-39-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-17 **Lab ID: 50365974003** Collected: 02/15/24 09:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 19:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:45	7440-48-4	
Copper, Dissolved	**4.5**	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:45	7440-50-8	
Nickel, Dissolved	**6.3**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:45	7440-02-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:45	7440-31-5	N2
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:45	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 08:51	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 08:51	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 08:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 08:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 08:51	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 08:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 08:51	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 08:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 08:51	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 08:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 08:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 08:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 08:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 08:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 08:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 08:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 08:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 08:51	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 08:51	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 08:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 08:51	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 08:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 08:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 08:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 08:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 08:51	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 08:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 08:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%.	79-124	1		02/21/24 08:51	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 08:51	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 08:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-17 **Lab ID: 50365974003** Collected: 02/15/24 09:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**617**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**617**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**964**	mg/L	10.0	1		02/21/24 10:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**783**	mg/L	10.0	1		02/21/24 08:38		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**1.4**	mg/L	0.10	1		02/16/24 03:21	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**2.0**	mg/L	0.10	1		02/28/24 11:35	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.033	1	02/20/24 11:00	02/20/24 15:54	64743-03-9	D3

Sample: MW-2R **Lab ID: 50365974004** Collected: 02/14/24 16:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**172**	mg/L	2.5	10		02/20/24 20:55	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/20/24 20:35	16984-48-8	
Sulfate	**158**	mg/L	2.5	10		02/20/24 20:55	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**340**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:55	7440-39-3	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 17:55	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:55	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:55	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:55	7439-92-1	
Lithium	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:55	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:55	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 17:55	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-2R **Lab ID: 50365974004** Collected: 02/14/24 16:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:17	7440-43-9	
Calcium, Dissolved	**249000**	ug/L	1000	2	02/22/24 20:40	02/23/24 23:50	7440-70-2	
Iron, Dissolved	**7920**	ug/L	100	1	02/22/24 20:40	02/23/24 23:17	7439-89-6	
Lithium, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:17	7439-93-2	
Magnesium, Dissolved	**93000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:17	7439-95-4	
Manganese, Dissolved	**792**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:17	7439-96-5	
Potassium, Dissolved	**1090**	ug/L	500	1	02/22/24 20:40	02/23/24 23:17	7440-09-7	
Sodium, Dissolved	**72600**	ug/L	500	1	02/22/24 20:40	02/23/24 23:17	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**95.1**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:41	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:41	7440-47-3	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 05:41	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**36.7**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:56	7440-38-2	
Barium, Dissolved	**302**	ug/L	4.0	2	02/20/24 09:45	02/21/24 20:19	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 19:56	7440-47-3	
Cobalt, Dissolved	**1.1**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:56	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:56	7440-50-8	
Nickel, Dissolved	**9.9**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:56	7440-02-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:56	7440-31-5	N2
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:56	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 09:21	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 09:21	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 09:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 09:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 09:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 09:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 09:21	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 09:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 09:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 09:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 09:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 09:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 09:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 09:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 09:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 09:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 09:21	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-2R **Lab ID: 50365974004** Collected: 02/14/24 16:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 09:21	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 09:21	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 09:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 09:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 09:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 09:21	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 09:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 09:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 09:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 09:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 09:21	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 09:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 09:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 09:21	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 09:21	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 09:21	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**741**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**741**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1340**	mg/L	20.0	1		02/21/24 10:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1260**	mg/L	20.0	1		02/21/24 08:51		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.13**	mg/L	0.10	1		02/28/24 11:37	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066							
	Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:56	64743-03-9	C4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-3D **Lab ID: 50365974005** Collected: 02/14/24 16:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**252**	mg/L	25.0	100		02/20/24 22:51	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	1		02/20/24 22:12	16984-48-8	
Sulfate	**1.2**	mg/L	0.25	1		02/20/24 22:12	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Barium	**1480**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:57	7440-39-3	
Lithium	**20.6**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:57	7439-93-2	
Nickel	**27.3**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:57	7440-02-0	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:19	7440-43-9	
Calcium, Dissolved	**143000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:19	7440-70-2	
Iron, Dissolved	**261**	ug/L	100	1	02/22/24 20:40	02/23/24 23:19	7439-89-6	
Lithium, Dissolved	**20.3**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:19	7439-93-2	
Magnesium, Dissolved	**78200**	ug/L	500	1	02/22/24 20:40	02/23/24 23:19	7439-95-4	
Manganese, Dissolved	**135**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:19	7439-96-5	
Potassium, Dissolved	**32900**	ug/L	500	1	02/22/24 20:40	02/23/24 23:19	7440-09-7	
Sodium, Dissolved	**136000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:19	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	**10.0**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:51	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**4.2**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:59	7440-38-2	
Barium, Dissolved	**1560**	ug/L	20.0	10	02/20/24 09:45	02/21/24 20:23	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 19:59	7440-47-3	
Cobalt, Dissolved	**3.9**	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:59	7440-48-4	
Copper, Dissolved	**5.1**	ug/L	0.50	1	02/20/24 09:45	02/21/24 19:59	7440-50-8	
Nickel, Dissolved	**27.5**	ug/L	2.0	1	02/20/24 09:45	02/21/24 19:59	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 19:59	7782-49-2	
Zinc, Dissolved	**29.3**	ug/L	4.0	1	02/20/24 09:45	02/21/24 19:59	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 09:50	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 09:50	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 09:50	56-23-5	
Chlorobenzene	**2.7**	ug/L	1.0	1		02/21/24 09:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 09:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 09:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 09:50	74-87-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-3D **Lab ID: 50365974005** Collected: 02/14/24 16:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 09:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 09:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 09:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 09:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 09:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 09:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 09:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 09:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 09:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 09:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 09:50	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 09:50	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 09:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 09:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 09:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 09:50	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 09:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 09:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 09:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 09:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 09:50	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 09:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 09:50	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 09:50	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 09:50	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/21/24 09:50	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**753**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**753**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1180**	mg/L	20.0	1		02/21/24 10:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1140**	mg/L	20.0	1		02/21/24 08:51		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**0.27**	mg/L	0.10	1		02/16/24 12:46	14797-55-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-3D **Lab ID: 50365974005** Collected: 02/14/24 16:50 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**32.4**	mg/L	1.0	10		02/28/24 11:44	7664-41-7	

Sample: MW-3DR **Lab ID: 50365974006** Collected: 02/15/24 08:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**246**	mg/L	25.0	100		02/20/24 23:49	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	1		02/20/24 23:10	16984-48-8	
Sulfate	**6.0**	mg/L	0.25	1		02/20/24 23:10	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Barium	**994**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:58	7440-39-3	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 17:58	7439-92-1	
Lithium	**23.3**	ug/L	10.0	1	02/20/24 08:14	02/20/24 17:58	7439-93-2	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:20	7440-43-9	
Calcium, Dissolved	**162000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:20	7440-70-2	
Iron, Dissolved	**8870**	ug/L	100	1	02/22/24 20:40	02/23/24 23:20	7439-89-6	
Lithium, Dissolved	**27.9**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:20	7439-93-2	
Magnesium, Dissolved	**79800**	ug/L	500	1	02/22/24 20:40	02/23/24 23:20	7439-95-4	
Manganese, Dissolved	**116**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:20	7439-96-5	
Potassium, Dissolved	**24500**	ug/L	500	1	02/22/24 20:40	02/23/24 23:20	7440-09-7	
Sodium, Dissolved	**127000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:20	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	**83.2**	ug/L	5.0	1	02/20/24 09:45	02/21/24 05:54	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 20:02	7440-36-0	
Arsenic, Dissolved	**90.4**	ug/L	1.0	1	02/20/24 09:45	02/21/24 20:02	7440-38-2	
Barium, Dissolved	**1080**	ug/L	20.0	10	02/20/24 09:45	02/21/24 20:26	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 20:02	7440-47-3	
Copper, Dissolved	**0.97**	ug/L	0.50	1	02/20/24 09:45	02/21/24 20:02	7440-50-8	
Nickel, Dissolved	**15.5**	ug/L	2.0	1	02/20/24 09:45	02/21/24 20:02	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-3DR **Lab ID: 50365974006** Collected: 02/15/24 08:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 10:20	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 10:20	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 10:20	56-23-5	
Chlorobenzene	**3.4**	ug/L	1.0	1		02/21/24 10:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 10:20	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 10:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 10:20	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 10:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 10:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 10:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 10:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 10:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 10:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 10:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 10:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 10:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 10:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 10:20	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 10:20	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 10:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 10:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 10:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 10:20	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 10:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 10:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 10:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 10:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 10:20	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 10:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 10:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 10:20	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 10:20	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 10:20	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**676**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**676**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1160**	mg/L	20.0	1		02/21/24 10:23		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: MW-3DR **Lab ID: 50365974006** Collected: 02/15/24 08:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1150**	mg/L	20.0	1		02/21/24 08:39		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**18.6**	mg/L	0.10	1		02/28/24 11:46	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 15:57	64743-03-9	C4

Sample: SP-1 **Lab ID: 50365974007** Collected: 02/14/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**95.3**	mg/L	2.5	10		02/21/24 04:01	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	1		02/21/24 03:41	16984-48-8	
Sulfate	**54.0**	mg/L	2.5	10		02/21/24 04:01	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:39	7440-36-0	
Barium	**372**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:56	7440-39-3	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 18:56	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:56	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:56	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 18:56	7439-92-1	
Lithium	**12.7**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:56	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:56	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:56	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:31	7440-43-9	
Calcium, Dissolved	**121000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:31	7440-70-2	
Iron, Dissolved	**1030**	ug/L	100	1	02/22/24 20:40	02/23/24 23:31	7439-89-6	
Lithium, Dissolved	**13.5**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:31	7439-93-2	
Magnesium, Dissolved	**38300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:31	7439-95-4	
Manganese, Dissolved	**41.5**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:31	7439-96-5	
Potassium, Dissolved	**1830**	ug/L	500	1	02/22/24 20:40	02/23/24 23:31	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:31	7440-22-4	
Sodium, Dissolved	**31800**	ug/L	500	1	02/22/24 20:40	02/23/24 23:31	7440-23-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: SP-1 **Lab ID: 50365974007** Collected: 02/14/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:21	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:21	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 06:21	7782-49-2	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 06:21	7440-62-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:39	7440-36-0	
Arsenic, Dissolved	**2.4**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:39	7440-38-2	
Barium, Dissolved	**353**	ug/L	6.0	3	02/20/24 15:43	02/21/24 04:14	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:39	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:39	7440-48-4	
Copper, Dissolved	**0.90**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:39	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:39	7439-92-1	
Nickel, Dissolved	ND	ug/L	2.0	1	02/20/24 15:43	02/21/24 02:39	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:39	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:39	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:39	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:39	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:15	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/23/24 10:32	02/25/24 16:38	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 10:49	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 10:49	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 10:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 10:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 10:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 10:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 10:49	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 10:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 10:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 10:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 10:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 10:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 10:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 10:49	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: SP-1 **Lab ID: 50365974007** Collected: 02/14/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 10:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 10:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 10:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 10:49	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 10:49	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 10:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 10:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 10:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 10:49	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 10:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 10:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 10:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 10:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 10:49	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 10:49	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 10:49	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 10:49	460-00-4	
Dibromofluoromethane (S)	95	%.	82-128	1		02/21/24 10:49	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 10:49	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**336**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**336**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**766**	mg/L	10.0	1		02/21/24 10:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**566**	mg/L	10.0	1		02/21/24 08:55		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
	Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**0.23**	mg/L	0.10	1		02/16/24 02:47	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.10**	mg/L	0.10	1		02/28/24 11:55	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: SP-1 **Lab ID: 50365974007** Collected: 02/14/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066							
	Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 16:04	64743-03-9	

Sample: SP-2 **Lab ID: 50365974008** Collected: 02/14/24 15:25 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**153**	mg/L	2.5	10		02/21/24 05:38	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	1		02/21/24 05:18	16984-48-8	
Sulfate	**68.5**	mg/L	2.5	10		02/21/24 05:38	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Antimony	ND	ug/L	6.0	1	02/20/24 08:14	02/20/24 22:41	7440-36-0	
Barium	**184**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:58	7440-39-3	
Cadmium	ND	ug/L	2.0	1	02/20/24 08:14	02/20/24 18:58	7440-43-9	
Cobalt	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:58	7440-48-4	
Copper	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:58	7440-50-8	
Lead	ND	ug/L	5.0	1	02/20/24 08:14	02/20/24 18:58	7439-92-1	
Lithium	**16.4**	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:58	7439-93-2	
Nickel	ND	ug/L	10.0	1	02/20/24 08:14	02/20/24 18:58	7440-02-0	
Zinc	ND	ug/L	20.0	1	02/20/24 08:14	02/20/24 18:58	7440-66-6	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/22/24 20:40	02/23/24 23:33	7440-43-9	
Calcium, Dissolved	**143000**	ug/L	500	1	02/22/24 20:40	02/23/24 23:33	7440-70-2	
Iron, Dissolved	**3430**	ug/L	100	1	02/22/24 20:40	02/23/24 23:33	7439-89-6	
Lithium, Dissolved	**20.6**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:33	7439-93-2	
Magnesium, Dissolved	**46600**	ug/L	500	1	02/22/24 20:40	02/23/24 23:33	7439-95-4	
Manganese, Dissolved	**298**	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:33	7439-96-5	
Potassium, Dissolved	**5450**	ug/L	500	1	02/22/24 20:40	02/23/24 23:33	7440-09-7	
Silver, Dissolved	ND	ug/L	10.0	1	02/22/24 20:40	02/23/24 23:33	7440-22-4	
Sodium, Dissolved	**77300**	ug/L	500	1	02/22/24 20:40	02/23/24 23:33	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:25	7440-38-2	
Chromium	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:25	7440-47-3	
Selenium	ND	ug/L	1.0	1	02/20/24 09:45	02/21/24 06:25	7782-49-2	
Vanadium	ND	ug/L	10.0	1	02/20/24 09:45	02/21/24 06:25	7440-62-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: SP-2 **Lab ID: 50365974008** Collected: 02/14/24 15:25 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Antimony, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:42	7440-36-0	
Arsenic, Dissolved	**3.4**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:42	7440-38-2	CR
Barium, Dissolved	**234**	ug/L	4.0	2	02/20/24 15:43	02/21/24 04:18	7440-39-3	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:42	7440-47-3	
Cobalt, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:42	7440-48-4	
Copper, Dissolved	**1.7**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:42	7440-50-8	
Lead, Dissolved	ND	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:42	7439-92-1	
Nickel, Dissolved	ND	ug/L	2.0	1	02/20/24 15:43	02/21/24 02:42	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:42	7782-49-2	
Thallium, Dissolved	ND	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:42	7440-28-0	
Tin, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:42	7440-31-5	N2
Vanadium, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:42	7440-62-2	
Zinc, Dissolved	ND	ug/L	4.0	1	02/20/24 15:43	02/21/24 02:42	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	0.20	1	02/22/24 10:38	02/22/24 20:18	7439-97-6	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury, Dissolved	ND	ug/L	0.20	1	02/23/24 10:32	02/25/24 16:40	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 11:18	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 11:18	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 11:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 11:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 11:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 11:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 11:18	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 11:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 11:18	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 11:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 11:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 11:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 11:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 11:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 11:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 11:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 11:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 11:18	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 11:18	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 11:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 11:18	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: SP-2 **Lab ID: 50365974008** Collected: 02/14/24 15:25 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 11:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 11:18	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 11:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 11:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 11:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 11:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 11:18	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 11:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 11:18	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%.	79-124	1		02/21/24 11:18	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 11:18	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/21/24 11:18	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**450**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**450**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**812**	mg/L	10.0	1		02/21/24 10:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**762**	mg/L	10.0	1		02/21/24 08:55		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2 Pace Analytical Services - Indianapolis							
Nitrogen, Nitrate	**0.42**	mg/L	0.10	1		02/16/24 02:49	14797-55-8	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**1.7**	mg/L	0.10	1		02/28/24 11:57	7664-41-7	
9066 Phenolics, Total	Analytical Method: EPA 9066 Preparation Method: EPA 9066 Pace Analytical Services - Indianapolis							
Phenolics, Total Recoverable	ND	mg/L	0.010	1	02/20/24 11:00	02/20/24 16:05	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Sample: TRIP BLANK **Lab ID: 50365974009** Collected: 02/14/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 11:48	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 11:48	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 11:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 11:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 11:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 11:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 11:48	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 11:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 11:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 11:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 11:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 11:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 11:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 11:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 11:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 11:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 11:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 11:48	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 11:48	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 11:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 11:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 11:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 11:48	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 11:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 11:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 11:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 11:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 11:48	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 11:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 11:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 11:48	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 11:48	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/21/24 11:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775813
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002

METHOD BLANK: 3551522 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 12:05	
Fluoride	mg/L	ND	0.10	02/23/24 12:05	
Sulfate	mg/L	ND	0.25	02/23/24 12:05	

LABORATORY CONTROL SAMPLE: 3551523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551524 3551525

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	92.0	25	25	114	114	88	89	80-120	0	15	
Fluoride	mg/L	0.37	1	1	1.3	1.3	97	96	80-120	1	15	
Sulfate	mg/L	ND	5	5	4.8	4.8	92	91	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776393
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3554055 Matrix: Water
Associated Lab Samples: 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/21/24 19:54	
Fluoride	mg/L	ND	0.10	02/21/24 19:54	
Sulfate	mg/L	ND	0.25	02/21/24 19:54	

LABORATORY CONTROL SAMPLE: 3554056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554057 3554058

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	225	25	25	247	244	89	77	80-120	1	15	M0
Fluoride	mg/L	0.21	1	1	1.3	1.3	108	107	80-120	1	15	
Sulfate	mg/L	22.6	5	5	27.3	26.3	94	75	80-120	4	15	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776652
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974007, 50365974008

METHOD BLANK: 3555044 Matrix: Water
Associated Lab Samples: 50365974001, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/22/24 19:09	

LABORATORY CONTROL SAMPLE: 3555045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555046 3555047

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.0	101	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776887
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974007, 50365974008

METHOD BLANK: 3556064 Matrix: Water
Associated Lab Samples: 50365974001, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/24 16:30	

LABORATORY CONTROL SAMPLE: 3556065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556066 3556067

Parameter	Units	50366179003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.7	95	93	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775845
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3551685 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	02/20/24 22:32	
Barium	ug/L	ND	10.0	02/20/24 17:22	
Cadmium	ug/L	ND	2.0	02/20/24 17:22	
Cobalt	ug/L	ND	10.0	02/20/24 17:22	
Copper	ug/L	ND	20.0	02/20/24 17:22	
Lead	ug/L	ND	5.0	02/20/24 17:22	
Lithium	ug/L	ND	10.0	02/20/24 17:22	
Nickel	ug/L	ND	10.0	02/20/24 17:22	
Zinc	ug/L	ND	20.0	02/20/24 17:22	

LABORATORY CONTROL SAMPLE: 3551686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	1000	996	100	80-120	
Barium	ug/L	1000	980	98	80-120	
Cadmium	ug/L	1000	977	98	80-120	
Cobalt	ug/L	1000	994	99	80-120	
Copper	ug/L	1000	965	97	80-120	
Lead	ug/L	1000	954	95	80-120	
Lithium	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	996	100	80-120	
Zinc	ug/L	1000	1040	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551687 3551688

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	953	969	95	97	75-125	2	20	
Barium	ug/L	1310	1000	1000	2260	2280	95	97	75-125	1	20	
Cadmium	ug/L	ND	1000	1000	977	982	98	98	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	964	968	96	96	75-125	0	20	
Copper	ug/L	22.7	1000	1000	977	981	95	96	75-125	0	20	
Lead	ug/L	16.5	1000	1000	930	933	91	92	75-125	0	20	
Lithium	ug/L	27.2	1000	1000	1020	1030	99	101	75-125	2	20	
Nickel	ug/L	31.6	1000	1000	978	982	95	95	75-125	0	20	
Zinc	ug/L	62.4	1000	1000	1070	1070	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551689 3551690

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1000	992	100	99	75-125	1	20	
Barium	ug/L	743	1000	1000	1730	1720	99	98	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	994	993	99	99	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	977	963	97	96	75-125	1	20	
Copper	ug/L	ND	1000	1000	961	962	96	96	75-125	0	20	
Lead	ug/L	ND	1000	1000	928	925	93	92	75-125	0	20	
Lithium	ug/L	26.5	1000	1000	1030	1030	100	101	75-125	0	20	
Nickel	ug/L	13.1	1000	1000	981	977	97	96	75-125	0	20	
Zinc	ug/L	ND	1000	1000	1040	1040	104	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776784
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3555701 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/23/24 23:07	
Calcium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Iron, Dissolved	ug/L	ND	100	02/23/24 23:07	
Lithium, Dissolved	ug/L	ND	10.0	02/23/24 23:07	
Magnesium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Manganese, Dissolved	ug/L	ND	10.0	02/23/24 23:07	
Potassium, Dissolved	ug/L	ND	500	02/23/24 23:07	
Silver, Dissolved	ug/L	ND	10.0	02/23/24 23:07	
Sodium, Dissolved	ug/L	ND	500	02/23/24 23:07	

LABORATORY CONTROL SAMPLE: 3555702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	950	95	80-120	
Calcium, Dissolved	ug/L	10000	9990	100	80-120	
Iron, Dissolved	ug/L	10000	9700	97	80-120	
Lithium, Dissolved	ug/L	1000	1000	100	80-120	
Magnesium, Dissolved	ug/L	10000	9670	97	80-120	
Manganese, Dissolved	ug/L	1000	973	97	80-120	
Potassium, Dissolved	ug/L	10000	9640	96	80-120	
Silver, Dissolved	ug/L	500	480	96	80-120	
Sodium, Dissolved	ug/L	10000	9510	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3555703 3555704

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	944	948	94	95	75-125	0	20	
Calcium, Dissolved	ug/L	129000	10000	10000	141000	141000	121	123	75-125	0	20	
Iron, Dissolved	ug/L	2260	10000	10000	11700	11700	94	95	75-125	0	20	
Lithium, Dissolved	ug/L	25.0	1000	1000	997	1000	97	98	75-125	1	20	
Magnesium, Dissolved	ug/L	44300	10000	10000	54700	54800	104	105	75-125	0	20	
Manganese, Dissolved	ug/L	880	1000	1000	1830	1830	95	95	75-125	0	20	
Potassium, Dissolved	ug/L	39300	10000	10000	50000	50000	107	107	75-125	0	20	
Silver, Dissolved	ug/L	ND	500	500	473	476	95	95	75-125	1	20	
Sodium, Dissolved	ug/L	84900	10000	10000	96300	96500	114	116	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776022
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3552722 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/21/24 04:40	
Chromium	ug/L	ND	5.0	02/21/24 04:40	
Selenium	ug/L	ND	1.0	02/21/24 04:40	
Vanadium	ug/L	ND	10.0	02/21/24 04:40	

LABORATORY CONTROL SAMPLE: 3552723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.1	95	80-120	
Chromium	ug/L	40	43.0	107	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Vanadium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552724 3552725

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	92.3	40	40	125	125	81	82	75-125	0	20	
Chromium	ug/L	6.1	40	40	46.9	46.4	102	101	75-125	1	20	
Selenium	ug/L	ND	40	40	34.8	35.5	86	88	75-125	2	20	
Vanadium	ug/L	ND	40	40	49.8	49.7	105	104	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552726 3552727

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	11.0	40	40	48.3	47.4	93	91	75-125	2	20	
Chromium	ug/L	ND	40	40	40.3	40.4	99	100	75-125	0	20	
Selenium	ug/L	ND	40	40	38.0	38.3	95	96	75-125	1	20	
Vanadium	ug/L	ND	40	40	41.5	41.6	103	104	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Lead, Dissolved	ug/L	ND	0.50	02/21/24 17:35	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 17:35	
Selenium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Tin, Dissolved	ug/L	ND	4.0	02/21/24 17:35	N2
Vanadium, Dissolved	ug/L	ND	4.0	02/21/24 17:35	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.2	103	80-120	
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Barium, Dissolved	ug/L	40	40.4	101	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Cobalt, Dissolved	ug/L	40	41.4	103	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	
Lead, Dissolved	ug/L	40	41.8	105	80-120	
Nickel, Dissolved	ug/L	40	41.2	103	80-120	
Selenium, Dissolved	ug/L	40	39.8	100	80-120	
Thallium, Dissolved	ug/L	40	40.9	102	80-120	
Tin, Dissolved	ug/L	40	41.6	104	80-120	N2
Vanadium, Dissolved	ug/L	40	41.8	104	80-120	
Zinc, Dissolved	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	43.4	42.6	108	106	75-125	2	20	
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	1200	40	40	1220	1220	62	49	75-125	0	20	P6
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Cobalt, Dissolved	ug/L	2.1	40	40	40.7	39.9	96	95	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	
Lead, Dissolved	ug/L	ND	40	40	43.2	42.7	108	107	75-125	1	20	
Nickel, Dissolved	ug/L	10.6	40	40	48.8	48.9	95	96	75-125	0	20	
Selenium, Dissolved	ug/L	ND	40	40	39.6	39.3	99	98	75-125	1	20	
Thallium, Dissolved	ug/L	ND	40	40	43.1	42.8	107	106	75-125	1	20	
Tin, Dissolved	ug/L	ND	40	40	43.2	42.7	106	105	75-125	1	20	N2
Vanadium, Dissolved	ug/L	ND	40	40	43.2	42.3	108	105	75-125	2	20	
Zinc, Dissolved	ug/L	ND	40	40	38.7	38.8	92	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776369
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974007, 50365974008

METHOD BLANK: 3553927 Matrix: Water
Associated Lab Samples: 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Barium, Dissolved	ug/L	ND	2.0	02/21/24 02:09	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 02:09	
Cobalt, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 02:09	
Lead, Dissolved	ug/L	ND	0.50	02/21/24 02:09	
Nickel, Dissolved	ug/L	ND	2.0	02/21/24 02:09	
Selenium, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Thallium, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Tin, Dissolved	ug/L	ND	4.0	02/21/24 02:09	N2
Vanadium, Dissolved	ug/L	ND	4.0	02/21/24 02:09	
Zinc, Dissolved	ug/L	ND	4.0	02/21/24 02:09	

LABORATORY CONTROL SAMPLE: 3553928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	40	41.8	104	80-120	
Arsenic, Dissolved	ug/L	40	37.9	95	80-120	
Barium, Dissolved	ug/L	40	39.5	99	80-120	
Chromium, Dissolved	ug/L	40	42.2	106	80-120	
Cobalt, Dissolved	ug/L	40	41.5	104	80-120	
Copper, Dissolved	ug/L	40	40.1	100	80-120	
Lead, Dissolved	ug/L	40	41.5	104	80-120	
Nickel, Dissolved	ug/L	40	40.0	100	80-120	
Selenium, Dissolved	ug/L	40	40.2	101	80-120	
Thallium, Dissolved	ug/L	40	41.3	103	80-120	
Tin, Dissolved	ug/L	40	41.6	104	80-120	N2
Vanadium, Dissolved	ug/L	40	41.5	104	80-120	
Zinc, Dissolved	ug/L	40	40.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553929 3553930

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	40	40	42.4	42.8	106	107	75-125	1	20	
Arsenic, Dissolved	ug/L	11.5	40	40	48.8	49.4	93	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553929 3553930

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	ug/L	728	40	40	779	767	128	98	75-125	2	20	P6
Chromium, Dissolved	ug/L	ND	40	40	40.0	40.3	99	100	75-125	1	20	
Cobalt, Dissolved	ug/L	4.1	40	40	41.5	41.4	93	93	75-125	0	20	
Copper, Dissolved	ug/L	0.99	40	40	35.1	35.3	85	86	75-125	1	20	
Lead, Dissolved	ug/L	ND	40	40	42.1	41.6	105	104	75-125	1	20	
Nickel, Dissolved	ug/L	13.9	40	40	48.6	49.4	87	89	75-125	2	20	
Selenium, Dissolved	ug/L	ND	40	40	37.7	39.0	94	97	75-125	3	20	
Thallium, Dissolved	ug/L	ND	40	40	44.0	43.6	108	107	75-125	1	20	
Tin, Dissolved	ug/L	ND	40	40	42.1	41.5	105	103	75-125	1	20	N2
Vanadium, Dissolved	ug/L	ND	40	40	40.2	40.7	101	102	75-125	1	20	
Zinc, Dissolved	ug/L	ND	40	40	35.6	36.1	85	86	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776492
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008, 50365974009

METHOD BLANK: 3554410
Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008, 50365974009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/24 04:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/24 04:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Benzene	ug/L	ND	1.0	02/21/24 04:26	
Bromomethane	ug/L	ND	2.0	02/21/24 04:26	
Carbon tetrachloride	ug/L	ND	1.0	02/21/24 04:26	
Chlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Chloroethane	ug/L	ND	1.0	02/21/24 04:26	
Chloroform	ug/L	ND	1.0	02/21/24 04:26	
Chloromethane	ug/L	ND	1.0	02/21/24 04:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Ethylbenzene	ug/L	ND	1.0	02/21/24 04:26	
Methylene Chloride	ug/L	ND	3.0	02/21/24 04:26	
Styrene	ug/L	ND	1.0	02/21/24 04:26	
Tetrachloroethene	ug/L	ND	1.0	02/21/24 04:26	
Toluene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Trichloroethene	ug/L	ND	1.0	02/21/24 04:26	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/24 04:26	
Vinyl chloride	ug/L	ND	2.0	02/21/24 04:26	
Xylene (Total)	ug/L	ND	2.0	02/21/24 04:26	
4-Bromofluorobenzene (S)	%.	92	79-124	02/21/24 04:26	
Dibromofluoromethane (S)	%.	96	82-128	02/21/24 04:26	
Toluene-d8 (S)	%.	99	73-122	02/21/24 04:26	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	81-130	
1,1,1-Trichloroethane	ug/L	50	45.3	91	76-127	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-126	
1,1,2-Trichloroethane	ug/L	50	47.9	96	79-124	
1,1-Dichloroethane	ug/L	50	46.3	93	76-123	
1,1-Dichloroethene	ug/L	50	47.7	95	73-133	
1,2-Dichlorobenzene	ug/L	50	48.5	97	79-123	
1,2-Dichloroethane	ug/L	50	44.0	88	70-124	
1,2-Dichloropropane	ug/L	50	46.1	92	74-128	
1,4-Dichlorobenzene	ug/L	50	48.2	96	77-120	
Benzene	ug/L	50	47.0	94	74-124	
Bromomethane	ug/L	50	38.8	78	10-183	
Carbon tetrachloride	ug/L	50	45.1	90	78-132	
Chlorobenzene	ug/L	50	48.8	98	77-121	
Chloroethane	ug/L	50	51.6	103	43-140	
Chloroform	ug/L	50	46.2	92	75-118	
Chloromethane	ug/L	50	41.7	83	45-130	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	76-125	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	76-132	
Ethylbenzene	ug/L	50	49.2	98	74-125	
Methylene Chloride	ug/L	50	47.5	95	77-126	
Styrene	ug/L	50	49.2	98	81-129	
Tetrachloroethene	ug/L	50	49.5	99	73-132	
Toluene	ug/L	50	47.9	96	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	74-125	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	75-132	
Trichloroethene	ug/L	50	47.1	94	75-127	
Trichlorofluoromethane	ug/L	50	49.3	99	64-136	
Vinyl chloride	ug/L	50	51.4	103	48-133	
Xylene (Total)	ug/L	150	145	97	73-123	
4-Bromofluorobenzene (S)	%.			94	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.3	95	60-150	
1,1,1-Trichloroethane	ug/L	ND	50	48.8	98	63-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.3	97	58-146	
1,1,2-Trichloroethane	ug/L	ND	50	48.3	97	63-142	
1,1-Dichloroethane	ug/L	ND	50	49.0	98	64-138	
1,1-Dichloroethene	ug/L	ND	50	51.7	103	65-139	
1,2-Dichlorobenzene	ug/L	ND	50	49.9	100	50-136	
1,2-Dichloroethane	ug/L	ND	50	45.0	90	55-146	

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Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	ND	50	47.0	94	66-134	
1,4-Dichlorobenzene	ug/L	ND	50	50.1	100	50-131	
Benzene	ug/L	ND	50	49.2	98	65-137	
Bromomethane	ug/L	ND	50	45.7	91	10-169	
Carbon tetrachloride	ug/L	ND	50	48.2	96	65-156	
Chlorobenzene	ug/L	ND	50	49.8	100	54-135	
Chloroethane	ug/L	ND	50	55.4	111	46-142	
Chloroform	ug/L	ND	50	47.9	96	64-133	
Chloromethane	ug/L	ND	50	45.5	91	30-139	
cis-1,2-Dichloroethene	ug/L	ND	50	50.5	101	59-141	
cis-1,3-Dichloropropene	ug/L	ND	50	45.1	90	57-141	
Ethylbenzene	ug/L	ND	50	51.1	102	50-143	
Methylene Chloride	ug/L	ND	50	47.5	95	53-126	
Styrene	ug/L	ND	50	49.1	98	57-141	
Tetrachloroethene	ug/L	ND	50	52.6	105	43-149	
Toluene	ug/L	ND	50	49.3	99	57-137	
trans-1,2-Dichloroethene	ug/L	ND	50	49.3	99	63-133	
trans-1,3-Dichloropropene	ug/L	ND	50	42.2	84	56-140	
Trichloroethene	ug/L	ND	50	49.3	99	52-145	
Trichlorofluoromethane	ug/L	ND	50	54.7	109	52-144	
Vinyl chloride	ug/L	ND	50	56.5	113	43-139	
Xylene (Total)	ug/L	ND	150	151	100	52-137	
4-Bromofluorobenzene (S)	%.				94	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				98	73-122	

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	92	93			
Dibromofluoromethane (S)	%.	96	97			
Toluene-d8 (S)	%.	98	98			

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REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776264
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3553545 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	

LABORATORY CONTROL SAMPLE: 3553546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3553547

Parameter	Units	50365978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	956	972	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	956	972	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553548

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	439	447	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	439	447	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775850
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776531 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3554570 Matrix: Water
Associated Lab Samples: 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/21/24 10:17	

LABORATORY CONTROL SAMPLE: 3554571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3554572

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	875	869	1	10	

SAMPLE DUPLICATE: 3554573

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	1000	1080	8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776532 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974004, 50365974005, 50365974007, 50365974008

METHOD BLANK: 3554574 Matrix: Water
Associated Lab Samples: 50365974001, 50365974004, 50365974005, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:48	

LABORATORY CONTROL SAMPLE: 3554575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3554576

Parameter	Units	50365973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	859	855	0	10	

SAMPLE DUPLICATE: 3554577

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	850	851	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776533 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974002, 50365974003, 50365974006

METHOD BLANK: 3554578 Matrix: Water
Associated Lab Samples: 50365974002, 50365974003, 50365974006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:37	

LABORATORY CONTROL SAMPLE: 3554579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	292	97	80-120	

SAMPLE DUPLICATE: 3554580

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	524	568	8	10	

SAMPLE DUPLICATE: 3554581

Parameter	Units	50365981003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	466	463	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775839
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974007, 50365974008

METHOD BLANK: 3551668 Matrix: Water
Associated Lab Samples: 50365974001, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 02:10	

LABORATORY CONTROL SAMPLE: 3551669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 3551672

Parameter	Units	50365893003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.31	1	1.4	108	90-110	

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775841
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974003

METHOD BLANK: 3551673 Matrix: Water
Associated Lab Samples: 50365974003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 03:04	

LABORATORY CONTROL SAMPLE: 3551674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551675 3551676

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	105	105	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 775926
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974002, 50365974005

METHOD BLANK: 3552090 Matrix: Water
Associated Lab Samples: 50365974002, 50365974005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/24 10:36	

LABORATORY CONTROL SAMPLE: 3552091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552092 3552093

Parameter	Units	50365995002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	1	1	1.1	1.1	107	106	90-110	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 777739
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3559702 Matrix: Water
Associated Lab Samples: 50365974001, 50365974002, 50365974003, 50365974004, 50365974005, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 11:02	

LABORATORY CONTROL SAMPLE: 3559703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559704 3559705

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	3.2	5	5	8.0	8.0	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559706 3559707

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	4.9	10	10	14.9	14.9	101	101	90-110	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 776310
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974003, 50365974004, 50365974006, 50365974007, 50365974008

METHOD BLANK: 3553688 Matrix: Water
Associated Lab Samples: 50365974003, 50365974004, 50365974006, 50365974007, 50365974008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/20/24 15:35	

LABORATORY CONTROL SAMPLE: 3553689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.055	110	90-110	L3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553690 3553691

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.25	0.25	0.29	0.28	112	107	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553692 3553693

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.094	0.054	183	104	90-110	53	20	M3,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

QC Batch: 777340
QC Batch Method: EPA 9066
Analysis Method: EPA 9066
Analysis Description: 9066 Phenolics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365974001

METHOD BLANK: 3558299 Matrix: Water
Associated Lab Samples: 50365974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	ND	0.010	02/28/24 16:25	

LABORATORY CONTROL SAMPLE: 3558300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.05	0.051	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558301 3558302

Parameter	Units	50365968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	mg/L	ND	0.05	0.05	0.052	0.054	105	108	90-110	3	20	

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REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

QUALIFIERS

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

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

C4	Sample container did not meet EPA or method requirements.
CR	The dissolved metal result was greater than the total metal result for this element. Results were confirmed by reanalysis.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365974001	**MW-111SAL**	EPA 9056	775813		
50365974002	**MW-16**	EPA 9056	775813		
50365974003	**MW-17**	EPA 9056	776393		
50365974004	**MW-2R**	EPA 9056	776393		
50365974005	**MW-3D**	EPA 9056	776393		
50365974006	**MW-3DR**	EPA 9056	776393		
50365974007	**SP-1**	EPA 9056	776393		
50365974008	**SP-2**	EPA 9056	776393		
50365974001	**MW-111SAL**	EPA 3010	775845	EPA 6010	776475
50365974002	**MW-16**	EPA 3010	775845	EPA 6010	776475
50365974003	**MW-17**	EPA 3010	775845	EPA 6010	776475
50365974004	**MW-2R**	EPA 3010	775845	EPA 6010	776475
50365974005	**MW-3D**	EPA 3010	775845	EPA 6010	776475
50365974006	**MW-3DR**	EPA 3010	775845	EPA 6010	776475
50365974007	**SP-1**	EPA 3010	775845	EPA 6010	776475
50365974008	**SP-2**	EPA 3010	775845	EPA 6010	776475
50365974001	**MW-111SAL**	EPA 3010	776784	EPA 6010	777215
50365974002	**MW-16**	EPA 3010	776784	EPA 6010	777215
50365974003	**MW-17**	EPA 3010	776784	EPA 6010	777215
50365974004	**MW-2R**	EPA 3010	776784	EPA 6010	777215
50365974005	**MW-3D**	EPA 3010	776784	EPA 6010	777215
50365974006	**MW-3DR**	EPA 3010	776784	EPA 6010	777215
50365974007	**SP-1**	EPA 3010	776784	EPA 6010	777215
50365974008	**SP-2**	EPA 3010	776784	EPA 6010	777215
50365974001	**MW-111SAL**	EPA 200.2	776022	EPA 6020	776509
50365974002	**MW-16**	EPA 200.2	776022	EPA 6020	776509
50365974003	**MW-17**	EPA 200.2	776022	EPA 6020	776509
50365974004	**MW-2R**	EPA 200.2	776022	EPA 6020	776509
50365974005	**MW-3D**	EPA 200.2	776022	EPA 6020	776509
50365974006	**MW-3DR**	EPA 200.2	776022	EPA 6020	776509
50365974007	**SP-1**	EPA 200.2	776022	EPA 6020	776509
50365974008	**SP-2**	EPA 200.2	776022	EPA 6020	776509
50365974001	**MW-111SAL**	EPA 200.2	776028	EPA 6020	776510
50365974002	**MW-16**	EPA 200.2	776028	EPA 6020	776510
50365974003	**MW-17**	EPA 200.2	776028	EPA 6020	776510
50365974004	**MW-2R**	EPA 200.2	776028	EPA 6020	776510
50365974005	**MW-3D**	EPA 200.2	776028	EPA 6020	776510
50365974006	**MW-3DR**	EPA 200.2	776028	EPA 6020	776510
50365974007	**SP-1**	EPA 200.2	776369	EPA 6020	776520
50365974008	**SP-2**	EPA 200.2	776369	EPA 6020	776520
50365974001	**MW-111SAL**	EPA 7470	776652	EPA 7470	776955
50365974007	**SP-1**	EPA 7470	776652	EPA 7470	776955
50365974008	**SP-2**	EPA 7470	776652	EPA 7470	776955
50365974001	**MW-111SAL**	EPA 7470	776887	EPA 7470	777287
50365974007	**SP-1**	EPA 7470	776887	EPA 7470	777287

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365974008	**SP-2**	EPA 7470	776887	EPA 7470	777287
50365974001	**MW-111SAL**	EPA 5030B/8260	776492		
50365974002	**MW-16**	EPA 5030B/8260	776492		
50365974003	**MW-17**	EPA 5030B/8260	776492		
50365974004	**MW-2R**	EPA 5030B/8260	776492		
50365974005	**MW-3D**	EPA 5030B/8260	776492		
50365974006	**MW-3DR**	EPA 5030B/8260	776492		
50365974007	**SP-1**	EPA 5030B/8260	776492		
50365974008	**SP-2**	EPA 5030B/8260	776492		
50365974009	**TRIP BLANK**	EPA 5030B/8260	776492		
50365974001	**MW-111SAL**	SM 2320B	776264		
50365974002	**MW-16**	SM 2320B	776264		
50365974003	**MW-17**	SM 2320B	776264		
50365974004	**MW-2R**	SM 2320B	776264		
50365974005	**MW-3D**	SM 2320B	776264		
50365974006	**MW-3DR**	SM 2320B	776264		
50365974007	**SP-1**	SM 2320B	776264		
50365974008	**SP-2**	SM 2320B	776264		
50365974001	**MW-111SAL**	SM 2540B	775850		
50365974002	**MW-16**	SM 2540B	776531		
50365974003	**MW-17**	SM 2540B	776531		
50365974004	**MW-2R**	SM 2540B	776531		
50365974005	**MW-3D**	SM 2540B	776531		
50365974006	**MW-3DR**	SM 2540B	776531		
50365974007	**SP-1**	SM 2540B	776531		
50365974008	**SP-2**	SM 2540B	776531		
50365974001	**MW-111SAL**	SM 2540C	776532		
50365974002	**MW-16**	SM 2540C	776533		
50365974003	**MW-17**	SM 2540C	776533		
50365974004	**MW-2R**	SM 2540C	776532		
50365974005	**MW-3D**	SM 2540C	776532		
50365974006	**MW-3DR**	SM 2540C	776533		
50365974007	**SP-1**	SM 2540C	776532		
50365974008	**SP-2**	SM 2540C	776532		
50365974001	**MW-111SAL**	EPA 353.2	775839		
50365974002	**MW-16**	EPA 353.2	775926		
50365974003	**MW-17**	EPA 353.2	775841		
50365974005	**MW-3D**	EPA 353.2	775926		
50365974007	**SP-1**	EPA 353.2	775839		
50365974008	**SP-2**	EPA 353.2	775839		
50365974001	**MW-111SAL**	SM 4500-NH3 G	777739		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley 1A/1B West
Pace Project No.: 50365974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365974002	**MW-16**	SM 4500-NH3 G	777739		
50365974003	**MW-17**	SM 4500-NH3 G	777739		
50365974004	**MW-2R**	SM 4500-NH3 G	777739		
50365974005	**MW-3D**	SM 4500-NH3 G	777739		
50365974006	**MW-3DR**	SM 4500-NH3 G	777739		
50365974007	**SP-1**	SM 4500-NH3 G	777739		
50365974008	**SP-2**	SM 4500-NH3 G	777739		
50365974001	**MW-111SAL**	EPA 9066	777340	EPA 9066	777807
50365974003	**MW-17**	EPA 9066	776310	EPA 9066	776439
50365974004	**MW-2R**	EPA 9066	776310	EPA 9066	776439
50365974006	**MW-3DR**	EPA 9066	776310	EPA 9066	776439
50365974007	**SP-1**	EPA 9066	776310	EPA 9066	776439
50365974008	**SP-2**	EPA 9066	776310	EPA 9066	776439

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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

WO# : 50365974

50365974

Company Name:	Republic Services - Indiana Landfills	Contact/Report To:	Reuter, Steve
Street Address:	5154 E 65th St, Indianapolis, IN 46220	Phone #:	317-347-9590
		E-Mail:	sreuter@sescogroup.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Wabash Valley 1A/1B West Assessment	Invoice To:	
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	IN Alkalinity 2320B, IC 9056 (F, Cl, SO4)	IN Ammonia 4500	IN Metals, Field Filtered	IN Metals, Total	IN Nitrate by 353.2	IN Phenolics by 420.4/9066	IN TS, TDS	IN Trip Blank	IN VOC by 8260		Sample Comment
MW-111SAL	WT				2-14-24	140				X	X	X	X	X	X	X		X		001
MW-16	WT				2-15-24	910				X	X	X	X	x	~~X~~	X		X		002
MW-17	WT				"	950				X	X	X	X	X	X	X		X		003
MW-2R	WT				2-14-24	410				X	X	X	~~X~~	X	x	X		X		004
MW-3D	WT				"	450				X	X	X	X	x	~~X~~	X		X		005
MW-3DR	WT				2-15-24	820				X	X	X	~~X~~	X	x	X		X		006
SP-1	WT				2-14-24	235				X	X	X	X	X	X	X		X		007
SP-2	WT				"	325				X	X	X	X	X	X	X		X		008
TRIP BLANK	WT				"	—											X			009

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Kenneth Hunt**
AcctNum / Client ID:
Table #:
Profile / Template: **5235 / 4**
Prelog / Bottle Ord. ID: **1164876**

Preservation non-conformance identified for sample.

requests marked through per testing table. kh021624

Additional Instructions from Pace®:

Collected By: (Printed Name) RYAN HAUGHSOL
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
.	E	-0.1	0.6	0.5	

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2-15-24 / 1745	PACE	2/15/24 1345
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMK

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE COMMENTS | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? **Analysis:** Nitrates	/		Circle: **HNO3 (<2)** **H2SO4 (<2)** **NaOH (>10)** **NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1820			Present	Absent	N/A
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			—
Custody Signatures Present?	/		Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Containers Intact?:	/		Headspace Wisconsin Sulfide?			/
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Present?	/		
			Trip Blank Custody Seals?:			

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3 2.5/2.4, 0.6/0.5

Phenolics will be tested out of plastic H2SO4 preserved bottle due to a bottle order error for samples -004 and -006.
Approved for reporting by Tin Bannister 2/16/24. kh021624

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	AMBER GLASS: DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
																												HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1				3								1					2	1	1	1	1						WT	✓	✓		
2				↓								1					2	X	1	1	1						↓	↓	↓			
3												1					2	1	1	1	1											
4																	2	1	1	1	1											
5												1					2		1	1	1											
6																	2	1	1	1	1											
7												1					2	1	1	1	1											
8												1					2	1	1	1	1							↓	↓			
9				✓																							✓					
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365977001	**MW-126SAl**	Water	02/13/24 08:00	02/15/24 13:45
50365977002	**MW-24DAL**	Water	02/13/24 15:20	02/15/24 13:45
50365977003	**MW-25DAL**	Water	02/13/24 13:45	02/15/24 13:45
50365977004	**MW-25SAL**	Water	02/13/24 09:25	02/15/24 13:45
50365977005	**MW-26SAL**	Water	02/13/24 14:35	02/15/24 13:45
50365977006	**MW-27SAL**	Water	02/13/24 16:05	02/15/24 13:45
50365977007	**MW-9RP**	Water	02/13/24 08:45	02/15/24 13:45
50365977008	**MW-A4**	Water	02/13/24 08:00	02/15/24 13:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365977001	**MW-126SAI**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977002	**MW-24DAL**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977003	**MW-25DAL**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977004	**MW-25SAL**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977005	**MW-26SAL**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977006	**MW-27SAL**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977007	**MW-9RP**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365977008	**MW-A4**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	DMT	3
		EPA 5030B/8260	TAY	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365977001	**MW-126SAI**					
EPA 9056	Chloride	55.8	mg/L	2.5	02/21/24 07:53	
EPA 9056	Sulfate	46.9	mg/L	2.5	02/21/24 07:53	
EPA 6010	Calcium, Dissolved	108000	ug/L	500	02/20/24 14:11	
EPA 6010	Iron, Dissolved	3390	ug/L	100	02/20/24 14:11	
EPA 6010	Magnesium, Dissolved	33700	ug/L	500	02/20/24 14:11	
EPA 6010	Manganese, Dissolved	66.7	ug/L	10.0	02/20/24 14:11	
EPA 6010	Potassium, Dissolved	4720	ug/L	500	02/20/24 14:11	
EPA 6010	Sodium, Dissolved	77300	ug/L	500	02/20/24 14:11	
EPA 6020	Arsenic, Dissolved	6.2	ug/L	1.0	02/21/24 02:59	
EPA 6020	Copper, Dissolved	0.51	ug/L	0.50	02/21/24 02:59	
SM 2320B	Alkalinity, Total as CaCO3	324	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	324	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	529	mg/L	10.0	02/16/24 10:27	
SM 2540C	Total Dissolved Solids	514	mg/L	10.0	02/20/24 07:51	
SM 4500-NH3 G	Nitrogen, Ammonia	0.25	mg/L	0.10	02/28/24 12:04	
50365977002	**MW-24DAL**					
EPA 9056	Chloride	100	mg/L	2.5	02/21/24 09:30	
EPA 9056	Sulfate	15.1	mg/L	0.25	02/21/24 09:11	
EPA 6010	Calcium, Dissolved	131000	ug/L	500	02/20/24 14:17	
EPA 6010	Iron, Dissolved	7090	ug/L	100	02/20/24 14:17	
EPA 6010	Magnesium, Dissolved	39100	ug/L	500	02/20/24 14:17	
EPA 6010	Manganese, Dissolved	88.8	ug/L	10.0	02/20/24 14:17	
EPA 6010	Potassium, Dissolved	2580	ug/L	500	02/20/24 14:17	
EPA 6010	Sodium, Dissolved	44100	ug/L	500	02/20/24 14:17	
EPA 6020	Arsenic, Dissolved	18.9	ug/L	1.0	02/21/24 03:03	
EPA 6020	Copper, Dissolved	0.59	ug/L	0.50	02/21/24 03:03	
SM 2320B	Alkalinity, Total as CaCO3	520	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	520	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	838	mg/L	10.0	02/16/24 10:28	
SM 2540C	Total Dissolved Solids	647	mg/L	10.0	02/20/24 07:51	
SM 4500-NH3 G	Nitrogen, Ammonia	0.30	mg/L	0.10	02/28/24 12:10	
50365977003	**MW-25DAL**					
EPA 9056	Chloride	26.1	mg/L	2.5	02/21/24 10:09	
EPA 9056	Sulfate	39.7	mg/L	0.25	02/21/24 09:49	
EPA 6010	Calcium, Dissolved	98300	ug/L	500	02/20/24 14:18	
EPA 6010	Iron, Dissolved	2100	ug/L	100	02/20/24 14:18	
EPA 6010	Magnesium, Dissolved	30700	ug/L	500	02/20/24 14:18	
EPA 6010	Manganese, Dissolved	55.1	ug/L	10.0	02/20/24 14:18	
EPA 6010	Potassium, Dissolved	2800	ug/L	500	02/20/24 14:18	
EPA 6010	Sodium, Dissolved	15600	ug/L	500	02/20/24 14:18	
EPA 6020	Arsenic, Dissolved	3.7	ug/L	1.0	02/21/24 03:06	
SM 2320B	Alkalinity, Total as CaCO3	335	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	335	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	445	mg/L	10.0	02/16/24 10:28	
SM 2540C	Total Dissolved Solids	409	mg/L	10.0	02/20/24 07:52	
SM 4500-NH3 G	Nitrogen, Ammonia	0.15	mg/L	0.10	02/28/24 12:17	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365977004	**MW-25SAL**					
EPA 9056	Chloride	115	mg/L	2.5	02/21/24 10:47	
EPA 9056	Sulfate	58.5	mg/L	2.5	02/21/24 10:47	
EPA 6010	Calcium, Dissolved	184000	ug/L	500	02/20/24 14:19	
EPA 6010	Iron, Dissolved	5860	ug/L	100	02/20/24 14:19	
EPA 6010	Magnesium, Dissolved	47300	ug/L	500	02/20/24 14:19	
EPA 6010	Manganese, Dissolved	1070	ug/L	10.0	02/20/24 14:19	
EPA 6010	Potassium, Dissolved	2780	ug/L	500	02/20/24 14:19	
EPA 6010	Sodium, Dissolved	25600	ug/L	500	02/20/24 14:19	
EPA 6020	Arsenic, Dissolved	18.5	ug/L	1.0	02/21/24 03:10	
EPA 6020	Copper, Dissolved	0.68	ug/L	0.50	02/21/24 03:10	
SM 2320B	Alkalinity, Total as CaCO3	337	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	337	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	842	mg/L	20.0	02/16/24 10:29	
SM 2540C	Total Dissolved Solids	713	mg/L	10.0	02/20/24 07:54	
SM 4500-NH3 G	Nitrogen, Ammonia	0.51	mg/L	0.10	02/28/24 12:21	
50365977005	**MW-26SAL**					
EPA 9056	Chloride	109	mg/L	2.5	02/24/24 04:17	
EPA 9056	Sulfate	73.3	mg/L	2.5	02/24/24 04:17	
EPA 6010	Calcium, Dissolved	108000	ug/L	500	02/20/24 14:24	
EPA 6010	Iron, Dissolved	3950	ug/L	100	02/20/24 14:24	
EPA 6010	Magnesium, Dissolved	33900	ug/L	500	02/20/24 14:24	
EPA 6010	Manganese, Dissolved	71.6	ug/L	10.0	02/20/24 14:24	
EPA 6010	Potassium, Dissolved	4700	ug/L	500	02/20/24 14:24	
EPA 6010	Sodium, Dissolved	80900	ug/L	500	02/20/24 14:24	
EPA 6020	Arsenic, Dissolved	6.9	ug/L	1.0	02/21/24 03:20	
EPA 6020	Copper, Dissolved	0.58	ug/L	0.50	02/21/24 03:20	
SM 2320B	Alkalinity, Total as CaCO3	331	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	331	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	508	mg/L	10.0	02/16/24 10:45	
SM 2540C	Total Dissolved Solids	494	mg/L	10.0	02/20/24 07:54	
SM 4500-NH3 G	Nitrogen, Ammonia	0.21	mg/L	0.10	02/28/24 12:23	
50365977006	**MW-27SAL**					
EPA 9056	Chloride	35.6	mg/L	2.5	02/24/24 04:36	
EPA 9056	Sulfate	61.0	mg/L	2.5	02/24/24 04:36	
EPA 6010	Calcium, Dissolved	107000	ug/L	500	02/20/24 14:25	
EPA 6010	Magnesium, Dissolved	34000	ug/L	500	02/20/24 14:25	
EPA 6010	Manganese, Dissolved	34.2	ug/L	10.0	02/20/24 14:25	
EPA 6010	Potassium, Dissolved	1860	ug/L	500	02/20/24 14:25	
EPA 6010	Sodium, Dissolved	11300	ug/L	500	02/20/24 14:25	
EPA 6020	Arsenic, Dissolved	1.0	ug/L	1.0	02/21/24 03:23	
EPA 6020	Copper, Dissolved	0.66	ug/L	0.50	02/21/24 03:23	
SM 2320B	Alkalinity, Total as CaCO3	328	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	328	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	457	mg/L	10.0	02/16/24 10:45	
SM 2540C	Total Dissolved Solids	440	mg/L	10.0	02/20/24 07:55	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365977007	**MW-9RP**					
EPA 9056	Chloride	6.4	mg/L	0.25	02/24/24 04:55	
EPA 9056	Sulfate	5.3	mg/L	0.25	02/24/24 04:55	
EPA 6010	Calcium, Dissolved	59100	ug/L	500	02/20/24 14:26	
EPA 6010	Magnesium, Dissolved	9660	ug/L	500	02/20/24 14:26	
EPA 6010	Potassium, Dissolved	4430	ug/L	500	02/20/24 14:26	
EPA 6010	Sodium, Dissolved	1290	ug/L	500	02/20/24 14:26	
EPA 6020	Arsenic, Dissolved	2.4	ug/L	1.0	02/21/24 03:27	
EPA 6020	Copper, Dissolved	1.4	ug/L	0.50	02/21/24 03:27	
SM 2320B	Alkalinity, Total as CaCO3	181	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	181	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	152	mg/L	10.0	02/16/24 10:46	
SM 2540C	Total Dissolved Solids	170	mg/L	10.0	02/20/24 07:55	
50365977008	**MW-A4**					
EPA 9056	Chloride	93.4	mg/L	2.5	02/24/24 05:34	
EPA 9056	Sulfate	14.2	mg/L	2.5	02/24/24 05:34	
EPA 6010	Calcium, Dissolved	121000	ug/L	500	02/20/24 14:28	
EPA 6010	Iron, Dissolved	8140	ug/L	100	02/20/24 14:28	
EPA 6010	Magnesium, Dissolved	35300	ug/L	500	02/20/24 14:28	
EPA 6010	Manganese, Dissolved	656	ug/L	10.0	02/20/24 14:28	
EPA 6010	Potassium, Dissolved	2680	ug/L	500	02/20/24 14:28	
EPA 6010	Sodium, Dissolved	44900	ug/L	500	02/20/24 14:28	
EPA 6020	Arsenic, Dissolved	27.8	ug/L	1.0	02/21/24 03:30	
EPA 6020	Copper, Dissolved	0.52	ug/L	0.50	02/21/24 03:30	
SM 2320B	Alkalinity, Total as CaCO3	426	mg/L	10.0	02/19/24 22:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	426	mg/L	10.0	02/19/24 22:36	
SM 2540B	Total Solids	1170	mg/L	10.0	02/16/24 10:46	
SM 2540C	Total Dissolved Solids	560	mg/L	10.0	02/20/24 07:55	
SM 4500-NH3 G	Nitrogen, Ammonia	0.31	mg/L	0.10	02/28/24 12:30	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-126SAI **Lab ID: 50365977001** Collected: 02/13/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**55.8**	mg/L	2.5	10		02/21/24 07:53	16887-00-6	
Sulfate	**46.9**	mg/L	2.5	10		02/21/24 07:53	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:11	7440-43-9	
Calcium, Dissolved	**108000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:11	7440-70-2	
Iron, Dissolved	**3390**	ug/L	100	1	02/20/24 13:41	02/20/24 14:11	7439-89-6	
Magnesium, Dissolved	**33700**	ug/L	500	1	02/20/24 13:41	02/20/24 14:11	7439-95-4	
Manganese, Dissolved	**66.7**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:11	7439-96-5	
Potassium, Dissolved	**4720**	ug/L	500	1	02/20/24 13:41	02/20/24 14:11	7440-09-7	
Sodium, Dissolved	**77300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:11	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**6.2**	ug/L	1.0	1	02/20/24 15:43	02/21/24 02:59	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 02:59	7440-47-3	
Copper, Dissolved	**0.51**	ug/L	0.50	1	02/20/24 15:43	02/21/24 02:59	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 15:07	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 15:07	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 15:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 15:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 15:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 15:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 15:07	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 15:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 15:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 15:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 15:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 15:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 15:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 15:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 15:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 15:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 15:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 15:07	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 15:07	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 15:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 15:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 15:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 15:07	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 15:07	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-126SAI **Lab ID: 50365977001** Collected: 02/13/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 15:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 15:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 15:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 15:07	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 15:07	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 15:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	103	%.	79-124	1		02/19/24 15:07	460-00-4	
Dibromofluoromethane (S)	99	%.	82-128	1		02/19/24 15:07	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/19/24 15:07	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**324**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**324**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**529**	mg/L	10.0	1		02/16/24 10:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**514**	mg/L	10.0	1		02/20/24 07:51		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.25**	mg/L	0.10	1		02/28/24 12:04	7664-41-7	

Sample: MW-24DAL **Lab ID: 50365977002** Collected: 02/13/24 15:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**100**	mg/L	2.5	10		02/21/24 09:30	16887-00-6	
Sulfate	**15.1**	mg/L	0.25	1		02/21/24 09:11	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:17	7440-43-9	
Calcium, Dissolved	**131000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:17	7440-70-2	
Iron, Dissolved	**7090**	ug/L	100	1	02/20/24 13:41	02/20/24 14:17	7439-89-6	
Magnesium, Dissolved	**39100**	ug/L	500	1	02/20/24 13:41	02/20/24 14:17	7439-95-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-24DAL **Lab ID: 50365977002** Collected: 02/13/24 15:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	**88.8**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:17	7439-96-5	
Potassium, Dissolved	**2580**	ug/L	500	1	02/20/24 13:41	02/20/24 14:17	7440-09-7	
Sodium, Dissolved	**44100**	ug/L	500	1	02/20/24 13:41	02/20/24 14:17	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**18.9**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:03	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:03	7440-47-3	
Copper, Dissolved	**0.59**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:03	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 15:37	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 15:37	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 15:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 15:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 15:37	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 15:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 15:37	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 15:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 15:37	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 15:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 15:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 15:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 15:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 15:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 15:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 15:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 15:37	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 15:37	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 15:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 15:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 15:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 15:37	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 15:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 15:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 15:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 15:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 15:37	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 15:37	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 15:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%.	79-124	1		02/19/24 15:37	460-00-4	
Dibromofluoromethane (S)	99	%.	82-128	1		02/19/24 15:37	1868-53-7	
Toluene-d8 (S)	105	%.	73-122	1		02/19/24 15:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-24DAL **Lab ID: 50365977002** Collected: 02/13/24 15:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**520**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**520**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**838**	mg/L	10.0	1		02/16/24 10:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**647**	mg/L	10.0	1		02/20/24 07:51		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.30**	mg/L	0.10	1		02/28/24 12:10	7664-41-7	

Sample: MW-25DAL **Lab ID: 50365977003** Collected: 02/13/24 13:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**26.1**	mg/L	2.5	10		02/21/24 10:09	16887-00-6	
Sulfate	**39.7**	mg/L	0.25	1		02/21/24 09:49	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:18	7440-43-9	
Calcium, Dissolved	**98300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:18	7440-70-2	
Iron, Dissolved	**2100**	ug/L	100	1	02/20/24 13:41	02/20/24 14:18	7439-89-6	
Magnesium, Dissolved	**30700**	ug/L	500	1	02/20/24 13:41	02/20/24 14:18	7439-95-4	
Manganese, Dissolved	**55.1**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:18	7439-96-5	
Potassium, Dissolved	**2800**	ug/L	500	1	02/20/24 13:41	02/20/24 14:18	7440-09-7	
Sodium, Dissolved	**15600**	ug/L	500	1	02/20/24 13:41	02/20/24 14:18	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**3.7**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:06	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:06	7440-47-3	
Copper, Dissolved	ND	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:06	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 16:08	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-25DAL **Lab ID: 50365977003** Collected: 02/13/24 13:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Bromomethane	ND	ug/L	2.0	1		02/19/24 16:08	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 16:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 16:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 16:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 16:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 16:08	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 16:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 16:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 16:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 16:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 16:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 16:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 16:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 16:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 16:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 16:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 16:08	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 16:08	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 16:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 16:08	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 16:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 16:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 16:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 16:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 16:08	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 16:08	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 16:08	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	79-124	1		02/19/24 16:08	460-00-4	
Dibromofluoromethane (S)	99	%.	82-128	1		02/19/24 16:08	1868-53-7	
Toluene-d8 (S)	106	%.	73-122	1		02/19/24 16:08	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**335**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**335**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**445**	mg/L	10.0	1		02/16/24 10:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-25DAL **Lab ID: 50365977003** Collected: 02/13/24 13:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**409**	mg/L	10.0	1		02/20/24 07:52		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.15**	mg/L	0.10	1		02/28/24 12:17	7664-41-7	

Sample: MW-25SAL **Lab ID: 50365977004** Collected: 02/13/24 09:25 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**115**	mg/L	2.5	10		02/21/24 10:47	16887-00-6	
Sulfate	**58.5**	mg/L	2.5	10		02/21/24 10:47	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:19	7440-43-9	
Calcium, Dissolved	**184000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:19	7440-70-2	
Iron, Dissolved	**5860**	ug/L	100	1	02/20/24 13:41	02/20/24 14:19	7439-89-6	
Magnesium, Dissolved	**47300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:19	7439-95-4	
Manganese, Dissolved	**1070**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:19	7439-96-5	
Potassium, Dissolved	**2780**	ug/L	500	1	02/20/24 13:41	02/20/24 14:19	7440-09-7	
Sodium, Dissolved	**25600**	ug/L	500	1	02/20/24 13:41	02/20/24 14:19	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**18.5**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:10	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:10	7440-47-3	
Copper, Dissolved	**0.68**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:10	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 16:39	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 16:39	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 16:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 16:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 16:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 16:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 16:39	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 16:39	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 16:39	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 16:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 16:39	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-25SAL **Lab ID: 50365977004** Collected: 02/13/24 09:25 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 16:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 16:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 16:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 16:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 16:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 16:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 16:39	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 16:39	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 16:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 16:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 16:39	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 16:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 16:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 16:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 16:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 16:39	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 16:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 16:39	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	79-124	1		02/19/24 16:39	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/19/24 16:39	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/19/24 16:39	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**337**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**337**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**842**	mg/L	20.0	1		02/16/24 10:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**713**	mg/L	10.0	1		02/20/24 07:54		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.51**	mg/L	0.10	1		02/28/24 12:21	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-26SAL **Lab ID: 50365977005** Collected: 02/13/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**109**	mg/L	2.5	10		02/24/24 04:17	16887-00-6	
Sulfate	**73.3**	mg/L	2.5	10		02/24/24 04:17	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:24	7440-43-9	
Calcium, Dissolved	**108000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:24	7440-70-2	
Iron, Dissolved	**3950**	ug/L	100	1	02/20/24 13:41	02/20/24 14:24	7439-89-6	
Magnesium, Dissolved	**33900**	ug/L	500	1	02/20/24 13:41	02/20/24 14:24	7439-95-4	
Manganese, Dissolved	**71.6**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:24	7439-96-5	
Potassium, Dissolved	**4700**	ug/L	500	1	02/20/24 13:41	02/20/24 14:24	7440-09-7	
Sodium, Dissolved	**80900**	ug/L	500	1	02/20/24 13:41	02/20/24 14:24	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**6.9**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:20	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:20	7440-47-3	
Copper, Dissolved	**0.58**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:20	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 17:09	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 17:09	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 17:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 17:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 17:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 17:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 17:09	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 17:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 17:09	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 17:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 17:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 17:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 17:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 17:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 17:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 17:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 17:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 17:09	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 17:09	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 17:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 17:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 17:09	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 17:09	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-26SAL **Lab ID: 50365977005** Collected: 02/13/24 14:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 17:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 17:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 17:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 17:09	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 17:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 17:09	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	79-124	1		02/19/24 17:09	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/19/24 17:09	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/19/24 17:09	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**331**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**331**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**508**	mg/L	10.0	1		02/16/24 10:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**494**	mg/L	10.0	1		02/20/24 07:54		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.21**	mg/L	0.10	1		02/28/24 12:23	7664-41-7	

Sample: MW-27SAL **Lab ID: 50365977006** Collected: 02/13/24 16:05 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**35.6**	mg/L	2.5	10		02/24/24 04:36	16887-00-6	
Sulfate	**61.0**	mg/L	2.5	10		02/24/24 04:36	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:25	7440-43-9	
Calcium, Dissolved	**107000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:25	7440-70-2	
Iron, Dissolved	ND	ug/L	100	1	02/20/24 13:41	02/20/24 14:25	7439-89-6	
Magnesium, Dissolved	**34000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:25	7439-95-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-27SAL **Lab ID: 50365977006** Collected: 02/13/24 16:05 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	**34.2**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:25	7439-96-5	
Potassium, Dissolved	**1860**	ug/L	500	1	02/20/24 13:41	02/20/24 14:25	7440-09-7	
Sodium, Dissolved	**11300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:25	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**1.0**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:23	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:23	7440-47-3	
Copper, Dissolved	**0.66**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:23	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 17:40	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 17:40	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 17:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 17:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 17:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 17:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 17:40	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 17:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 17:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 17:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 17:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 17:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 17:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 17:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 17:40	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 17:40	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 17:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 17:40	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 17:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 17:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 17:40	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 17:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 17:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	79-124	1		02/19/24 17:40	460-00-4	
Dibromofluoromethane (S)	99	%.	82-128	1		02/19/24 17:40	1868-53-7	
Toluene-d8 (S)	107	%.	73-122	1		02/19/24 17:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-27SAL **Lab ID: 50365977006** Collected: 02/13/24 16:05 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**328**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**328**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**457**	mg/L	10.0	1		02/16/24 10:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**440**	mg/L	10.0	1		02/20/24 07:55		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/24 12:26	7664-41-7	

Sample: MW-9RP **Lab ID: 50365977007** Collected: 02/13/24 08:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**6.4**	mg/L	0.25	1		02/24/24 04:55	16887-00-6	
Sulfate	**5.3**	mg/L	0.25	1		02/24/24 04:55	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:26	7440-43-9	
Calcium, Dissolved	**59100**	ug/L	500	1	02/20/24 13:41	02/20/24 14:26	7440-70-2	
Iron, Dissolved	ND	ug/L	100	1	02/20/24 13:41	02/20/24 14:26	7439-89-6	
Magnesium, Dissolved	**9660**	ug/L	500	1	02/20/24 13:41	02/20/24 14:26	7439-95-4	
Manganese, Dissolved	ND	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:26	7439-96-5	
Potassium, Dissolved	**4430**	ug/L	500	1	02/20/24 13:41	02/20/24 14:26	7440-09-7	
Sodium, Dissolved	**1290**	ug/L	500	1	02/20/24 13:41	02/20/24 14:26	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**2.4**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:27	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:27	7440-47-3	
Copper, Dissolved	**1.4**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:27	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 20:43	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-9RP **Lab ID: 50365977007** Collected: 02/13/24 08:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Bromomethane	ND	ug/L	2.0	1		02/19/24 20:43	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 20:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 20:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 20:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 20:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 20:43	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 20:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 20:43	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 20:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 20:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 20:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 20:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 20:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 20:43	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 20:43	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 20:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 20:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 20:43	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 20:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 20:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 20:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 20:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 20:43	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 20:43	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 20:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102	%.	79-124	1		02/19/24 20:43	460-00-4	
Dibromofluoromethane (S)	102	%.	82-128	1		02/19/24 20:43	1868-53-7	
Toluene-d8 (S)	106	%.	73-122	1		02/19/24 20:43	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**181**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**181**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**152**	mg/L	10.0	1		02/16/24 10:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-9RP **Lab ID: 50365977007** Collected: 02/13/24 08:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**170**	mg/L	10.0	1		02/20/24 07:55		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/24 12:28	7664-41-7	

Sample: MW-A4 **Lab ID: 50365977008** Collected: 02/13/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**93.4**	mg/L	2.5	10		02/24/24 05:34	16887-00-6	
Sulfate	**14.2**	mg/L	2.5	10		02/24/24 05:34	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:28	7440-43-9	
Calcium, Dissolved	**121000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:28	7440-70-2	
Iron, Dissolved	**8140**	ug/L	100	1	02/20/24 13:41	02/20/24 14:28	7439-89-6	
Magnesium, Dissolved	**35300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:28	7439-95-4	
Manganese, Dissolved	**656**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:28	7439-96-5	
Potassium, Dissolved	**2680**	ug/L	500	1	02/20/24 13:41	02/20/24 14:28	7440-09-7	
Sodium, Dissolved	**44900**	ug/L	500	1	02/20/24 13:41	02/20/24 14:28	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**27.8**	ug/L	1.0	1	02/20/24 15:43	02/21/24 03:30	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 15:43	02/21/24 03:30	7440-47-3	
Copper, Dissolved	**0.52**	ug/L	0.50	1	02/20/24 15:43	02/21/24 03:30	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/19/24 21:44	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/19/24 21:44	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/19/24 21:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/19/24 21:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/19/24 21:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/19/24 21:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/19/24 21:44	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 21:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/19/24 21:44	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/19/24 21:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/19/24 21:44	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Sample: MW-A4 **Lab ID: 50365977008** Collected: 02/13/24 08:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/24 21:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 21:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/19/24 21:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/19/24 21:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 21:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/19/24 21:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/19/24 21:44	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/19/24 21:44	75-09-2	
Styrene	ND	ug/L	1.0	1		02/19/24 21:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 21:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/19/24 21:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/19/24 21:44	127-18-4	
Toluene	ND	ug/L	1.0	1		02/19/24 21:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/19/24 21:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/19/24 21:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/19/24 21:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/24 21:44	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/19/24 21:44	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/19/24 21:44	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101	%.	79-124	1		02/19/24 21:44	460-00-4	
Dibromofluoromethane (S)	98	%.	82-128	1		02/19/24 21:44	1868-53-7	
Toluene-d8 (S)	106	%.	73-122	1		02/19/24 21:44	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**426**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Bicarbonate (CaCO3)	**426**	mg/L	10.0	1		02/19/24 22:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 22:36		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1170**	mg/L	10.0	1		02/16/24 10:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**560**	mg/L	10.0	1		02/20/24 07:55		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.31**	mg/L	0.10	1		02/28/24 12:30	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776393
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3554055 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/21/24 19:54	
Sulfate	mg/L	ND	0.25	02/21/24 19:54	

LABORATORY CONTROL SAMPLE: 3554056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	97	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554057 3554058

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	225	25	25	247	244	89	77	80-120	1	15	M0
Sulfate	mg/L	22.6	5	5	27.3	26.3	94	75	80-120	4	15	M0

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776406
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3554129 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/20/24 14:10	
Calcium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Iron, Dissolved	ug/L	ND	100	02/20/24 14:10	
Magnesium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Manganese, Dissolved	ug/L	ND	10.0	02/20/24 14:10	
Potassium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Sodium, Dissolved	ug/L	ND	500	02/20/24 14:10	

LABORATORY CONTROL SAMPLE: 3554130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	1080	108	80-120	
Calcium, Dissolved	ug/L	10000	10500	105	80-120	
Iron, Dissolved	ug/L	10000	10800	108	80-120	
Magnesium, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	1000	1050	105	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554131 3554132

Parameter	Units	50365977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	20	
Calcium, Dissolved	ug/L	108000	10000	10000	116000	115000	85	72	75-125	1	20	P6
Iron, Dissolved	ug/L	3390	10000	10000	14100	13900	107	106	75-125	1	20	
Magnesium, Dissolved	ug/L	33700	10000	10000	43400	42900	97	91	75-125	1	20	
Manganese, Dissolved	ug/L	66.7	1000	1000	1110	1100	104	103	75-125	1	20	
Potassium, Dissolved	ug/L	4720	10000	10000	14900	14900	102	102	75-125	0	20	
Sodium, Dissolved	ug/L	77300	10000	10000	85400	85000	81	78	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776369
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3553927 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 02:09	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 02:09	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 02:09	

LABORATORY CONTROL SAMPLE: 3553928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	40	37.9	95	80-120	
Chromium, Dissolved	ug/L	40	42.2	106	80-120	
Copper, Dissolved	ug/L	40	40.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553929 3553930

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	11.5	40	40	48.8	49.4	93	95	75-125	1	20	
Chromium, Dissolved	ug/L	ND	40	40	40.0	40.3	99	100	75-125	1	20	
Copper, Dissolved	ug/L	0.99	40	40	35.1	35.3	85	86	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776170
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3553267
Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,1-Dichloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,1-Dichloroethene	ug/L	ND	5.0	02/19/24 12:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/19/24 12:35	
1,2-Dichloroethane	ug/L	ND	1.0	02/19/24 12:35	
1,2-Dichloropropane	ug/L	ND	1.0	02/19/24 12:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/19/24 12:35	
Benzene	ug/L	ND	1.0	02/19/24 12:35	
Bromomethane	ug/L	ND	2.0	02/19/24 12:35	
Carbon tetrachloride	ug/L	ND	1.0	02/19/24 12:35	
Chlorobenzene	ug/L	ND	1.0	02/19/24 12:35	
Chloroethane	ug/L	ND	1.0	02/19/24 12:35	
Chloroform	ug/L	ND	1.0	02/19/24 12:35	
Chloromethane	ug/L	ND	1.0	02/19/24 12:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/19/24 12:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/19/24 12:35	
Ethylbenzene	ug/L	ND	1.0	02/19/24 12:35	
Methylene Chloride	ug/L	ND	3.0	02/19/24 12:35	
Styrene	ug/L	ND	1.0	02/19/24 12:35	
Tetrachloroethene	ug/L	ND	1.0	02/19/24 12:35	
Toluene	ug/L	ND	1.0	02/19/24 12:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/19/24 12:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/19/24 12:35	
Trichloroethene	ug/L	ND	1.0	02/19/24 12:35	
Trichlorofluoromethane	ug/L	ND	5.0	02/19/24 12:35	
Vinyl chloride	ug/L	ND	2.0	02/19/24 12:35	
Xylene (Total)	ug/L	ND	2.0	02/19/24 12:35	
4-Bromofluorobenzene (S)	%.	103	79-124	02/19/24 12:35	
Dibromofluoromethane (S)	%.	105	82-128	02/19/24 12:35	
Toluene-d8 (S)	%.	106	73-122	02/19/24 12:35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

LABORATORY CONTROL SAMPLE: 3553268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.7	101	81-130	
1,1,1-Trichloroethane	ug/L	50	41.0	82	76-127	
1,1,2,2-Tetrachloroethane	ug/L	50	55.3	111	70-126	
1,1,2-Trichloroethane	ug/L	50	56.5	113	79-124	
1,1-Dichloroethane	ug/L	50	45.1	90	76-123	
1,1-Dichloroethene	ug/L	50	44.3	89	73-133	
1,2-Dichlorobenzene	ug/L	50	50.4	101	79-123	
1,2-Dichloroethane	ug/L	50	38.9	78	70-124	
1,2-Dichloropropane	ug/L	50	47.6	95	74-128	
1,4-Dichlorobenzene	ug/L	50	51.3	103	77-120	
Benzene	ug/L	50	46.3	93	74-124	
Bromomethane	ug/L	50	26.4	53	10-183	
Carbon tetrachloride	ug/L	50	39.5	79	78-132	
Chlorobenzene	ug/L	50	49.1	98	77-121	
Chloroethane	ug/L	50	37.0	74	43-140	
Chloroform	ug/L	50	41.8	84	75-118	
Chloromethane	ug/L	50	38.1	76	45-130	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	76-125	
cis-1,3-Dichloropropene	ug/L	50	56.3	113	76-132	
Ethylbenzene	ug/L	50	50.9	102	74-125	
Methylene Chloride	ug/L	50	46.1	92	77-126	
Styrene	ug/L	50	52.4	105	81-129	
Tetrachloroethene	ug/L	50	47.4	95	73-132	
Toluene	ug/L	50	49.2	98	72-119	
trans-1,2-Dichloroethene	ug/L	50	43.7	87	74-125	
trans-1,3-Dichloropropene	ug/L	50	55.2	110	75-132	
Trichloroethene	ug/L	50	45.0	90	75-127	
Trichlorofluoromethane	ug/L	50	38.7	77	64-136	
Vinyl chloride	ug/L	50	42.4	85	48-133	
Xylene (Total)	ug/L	150	147	98	73-123	
4-Bromofluorobenzene (S)	%.			100	79-124	
Dibromofluoromethane (S)	%.			91	82-128	
Toluene-d8 (S)	%.			106	73-122	

MATRIX SPIKE SAMPLE: 3553270

Parameter	Units	50365977008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	48.8	98	60-150	
1,1,1-Trichloroethane	ug/L	ND	50	40.5	81	63-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	52.7	105	58-146	
1,1,2-Trichloroethane	ug/L	ND	50	52.5	105	63-142	
1,1-Dichloroethane	ug/L	ND	50	44.5	89	64-138	
1,1-Dichloroethene	ug/L	ND	50	44.9	90	65-139	
1,2-Dichlorobenzene	ug/L	ND	50	48.6	97	50-136	
1,2-Dichloroethane	ug/L	ND	50	37.6	75	55-146	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

MATRIX SPIKE SAMPLE: 3553270

Parameter	Units	50365977008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	ND	50	46.9	94	66-134	
1,4-Dichlorobenzene	ug/L	ND	50	50.0	100	50-131	
Benzene	ug/L	ND	50	46.3	93	65-137	
Bromomethane	ug/L	ND	50	19.6	39	10-169	
Carbon tetrachloride	ug/L	ND	50	38.5	77	65-156	
Chlorobenzene	ug/L	ND	50	48.6	97	54-135	
Chloroethane	ug/L	ND	50	34.2	68	46-142	
Chloroform	ug/L	ND	50	41.4	83	64-133	
Chloromethane	ug/L	ND	50	38.0	76	30-139	
cis-1,2-Dichloroethene	ug/L	ND	50	44.1	88	59-141	
cis-1,3-Dichloropropene	ug/L	ND	50	53.3	107	57-141	
Ethylbenzene	ug/L	ND	50	50.7	101	50-143	
Methylene Chloride	ug/L	ND	50	45.2	90	53-126	
Styrene	ug/L	ND	50	50.9	102	57-141	
Tetrachloroethene	ug/L	ND	50	47.5	95	43-149	
Toluene	ug/L	ND	50	49.1	98	57-137	
trans-1,2-Dichloroethene	ug/L	ND	50	43.4	87	63-133	
trans-1,3-Dichloropropene	ug/L	ND	50	51.5	103	56-140	
Trichloroethene	ug/L	ND	50	45.0	90	52-145	
Trichlorofluoromethane	ug/L	ND	50	38.8	78	52-144	
Vinyl chloride	ug/L	ND	50	42.1	84	43-139	
Xylene (Total)	ug/L	ND	150	146	97	52-137	
4-Bromofluorobenzene (S)	%.				99	79-124	
Dibromofluoromethane (S)	%.				91	82-128	
Toluene-d8 (S)	%.				106	73-122	

SAMPLE DUPLICATE: 3553269

Parameter	Units	50365977007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

SAMPLE DUPLICATE: 3553269

Parameter	Units	50365977007 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	102	102			
Dibromofluoromethane (S)	%.	102	101			
Toluene-d8 (S)	%.	106	106			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776263
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3553541 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/19/24 22:36	

LABORATORY CONTROL SAMPLE: 3553542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3553543

Parameter	Units	50365977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	324	325	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	324	325	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553544

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	467	466	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	467	466	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 775850
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 776288
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3553644 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002, 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/20/24 07:49	

LABORATORY CONTROL SAMPLE: 3553645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	260	87	80-120	

SAMPLE DUPLICATE: 3553646

Parameter	Units	50365782006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	518	512	1	10	

SAMPLE DUPLICATE: 3553647

Parameter	Units	50365835001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	408	400	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 777739
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977001, 50365977002

METHOD BLANK: 3559702 Matrix: Water
Associated Lab Samples: 50365977001, 50365977002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 11:02	

LABORATORY CONTROL SAMPLE: 3559703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559704 3559705

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	3.2	5	5	8.0	8.0	98	98	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559706 3559707

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	4.9	10	10	14.9	14.9	101	101	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

QC Batch: 777741
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

METHOD BLANK: 3559711 Matrix: Water
Associated Lab Samples: 50365977003, 50365977004, 50365977005, 50365977006, 50365977007, 50365977008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 12:12	

LABORATORY CONTROL SAMPLE: 3559712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559713 3559714

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.25	5	5	5.4	5.4	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3559719

Parameter	Units	50365977003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	5	5.2	102	90-110	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

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

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365977001	**MW-126SAI**	EPA 9056	776393		
50365977002	**MW-24DAL**	EPA 9056	776393		
50365977003	**MW-25DAL**	EPA 9056	776393		
50365977004	**MW-25SAL**	EPA 9056	776393		
50365977005	**MW-26SAL**	EPA 9056	776393		
50365977006	**MW-27SAL**	EPA 9056	776393		
50365977007	**MW-9RP**	EPA 9056	776393		
50365977008	**MW-A4**	EPA 9056	776393		
50365977001	**MW-126SAI**	EPA 3010	776406	EPA 6010	776408
50365977002	**MW-24DAL**	EPA 3010	776406	EPA 6010	776408
50365977003	**MW-25DAL**	EPA 3010	776406	EPA 6010	776408
50365977004	**MW-25SAL**	EPA 3010	776406	EPA 6010	776408
50365977005	**MW-26SAL**	EPA 3010	776406	EPA 6010	776408
50365977006	**MW-27SAL**	EPA 3010	776406	EPA 6010	776408
50365977007	**MW-9RP**	EPA 3010	776406	EPA 6010	776408
50365977008	**MW-A4**	EPA 3010	776406	EPA 6010	776408
50365977001	**MW-126SAI**	EPA 200.2	776369	EPA 6020	776520
50365977002	**MW-24DAL**	EPA 200.2	776369	EPA 6020	776520
50365977003	**MW-25DAL**	EPA 200.2	776369	EPA 6020	776520
50365977004	**MW-25SAL**	EPA 200.2	776369	EPA 6020	776520
50365977005	**MW-26SAL**	EPA 200.2	776369	EPA 6020	776520
50365977006	**MW-27SAL**	EPA 200.2	776369	EPA 6020	776520
50365977007	**MW-9RP**	EPA 200.2	776369	EPA 6020	776520
50365977008	**MW-A4**	EPA 200.2	776369	EPA 6020	776520
50365977001	**MW-126SAI**	EPA 5030B/8260	776170		
50365977002	**MW-24DAL**	EPA 5030B/8260	776170		
50365977003	**MW-25DAL**	EPA 5030B/8260	776170		
50365977004	**MW-25SAL**	EPA 5030B/8260	776170		
50365977005	**MW-26SAL**	EPA 5030B/8260	776170		
50365977006	**MW-27SAL**	EPA 5030B/8260	776170		
50365977007	**MW-9RP**	EPA 5030B/8260	776170		
50365977008	**MW-A4**	EPA 5030B/8260	776170		
50365977001	**MW-126SAI**	SM 2320B	776263		
50365977002	**MW-24DAL**	SM 2320B	776263		
50365977003	**MW-25DAL**	SM 2320B	776263		
50365977004	**MW-25SAL**	SM 2320B	776263		
50365977005	**MW-26SAL**	SM 2320B	776263		
50365977006	**MW-27SAL**	SM 2320B	776263		
50365977007	**MW-9RP**	SM 2320B	776263		
50365977008	**MW-A4**	SM 2320B	776263		
50365977001	**MW-126SAI**	SM 2540B	775850		
50365977002	**MW-24DAL**	SM 2540B	775850		
50365977003	**MW-25DAL**	SM 2540B	775850		
50365977004	**MW-25SAL**	SM 2540B	775850		
50365977005	**MW-26SAL**	SM 2540B	775850		
50365977006	**MW-27SAL**	SM 2540B	775850		

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley 1A/1B East Area
Pace Project No.: 50365977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365977007	**MW-9RP**	SM 2540B	775850		
50365977008	**MW-A4**	SM 2540B	775850		
50365977001	**MW-126SAI**	SM 2540C	776288		
50365977002	**MW-24DAL**	SM 2540C	776288		
50365977003	**MW-25DAL**	SM 2540C	776288		
50365977004	**MW-25SAL**	SM 2540C	776288		
50365977005	**MW-26SAL**	SM 2540C	776288		
50365977006	**MW-27SAL**	SM 2540C	776288		
50365977007	**MW-9RP**	SM 2540C	776288		
50365977008	**MW-A4**	SM 2540C	776288		
50365977001	**MW-126SAI**	SM 4500-NH3 G	777739		
50365977002	**MW-24DAL**	SM 4500-NH3 G	777739		
50365977003	**MW-25DAL**	SM 4500-NH3 G	777741		
50365977004	**MW-25SAL**	SM 4500-NH3 G	777741		
50365977005	**MW-26SAL**	SM 4500-NH3 G	777741		
50365977006	**MW-27SAL**	SM 4500-NH3 G	777741		
50365977007	**MW-9RP**	SM 4500-NH3 G	777741		
50365977008	**MW-A4**	SM 4500-NH3 G	777741		

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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

WO# : 50365977

50365977

Company Name:	Republic Services - Indiana Landfills	Contact/Report To:	Reuter, Steve
Street Address:	5154 E 65th St, Indianapolis, IN 46220	Phone #:	317-347-9590
		E-Mail:	sreuter@sescogroup.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Wabash Valley 1A/1B East Area	Invoice To:	
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No		
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No	Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Alk, Cl, SO4	IN Ammonia	IN Metals, Field Filtered	IN TS, TDS	IN VOC by 8260	Sample Comment
MW-~~124DAL~~ 126SAL	WT	G			2-13-24	—				X	X	X	X	X	001
MW-24DAL	WT					320				X	X	X	X	X	002
MW-25DAL	WT					145				X	X	X	X	X	003
MW-25SAL	WT					925				X	X	X	X	X	004
MW-26SAL	WT					235				X	X	X	X	X	005
MW-27SAL	WT					405				X	X	X	X	X	006
MW-9RP	WT					845				X	X	X	X	X	007
MW-A4	WT					800				X	X	X	X	X	008

Lab Use Only

Proj. Mgr: **Kenneth Hunt**

AcctNum / Client ID:

Table #:

Profile / Template: **5235 / 3**

Prelog / Bottle Ord. ID: **1164788**

Preservation non-conformance identified for sample.

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) [illegible]0mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Additional Instructions from Pace®:

Collected By: (Printed Name) RYAN FRANCISCO

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	E	-.1	0.6	0.5	Y

Relinquished by/Company: (Signature)	Date/Time: 2-15-24/1145	Received by/Company: (Signature) PACE	Date/Time: 2/15/24 1345	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [✓] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMC

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE | COMMENTS | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	Circle: **HNO3 (<2)** **H2SO4 (<2)** **NaOH (>10)** **NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3 2.5/2.4, 0.6/0.5

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	AMBER GLASS: DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3													2			1	1								WT	✓	✓		
2				↓													↓			↓	↓								↓	↓	↓		
3																																	
4																																	
5																																	
6																																	
7																																	
8				↓													↓			↓	↓								↓	↓	↓		
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365978001	**WZ-3**	Water	02/12/24 09:45	02/15/24 13:45
50365978002	**WZ-5**	Water	02/12/24 10:20	02/15/24 13:45
50365978003	**WZ-9**	Water	02/12/24 12:10	02/15/24 13:45

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365978001	**WZ-3**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	MGM	3
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365978002	**WZ-5**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	MGM	3
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1
50365978003	**WZ-9**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	MGM	3
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365978001	**WZ-3**					
EPA 9056	Chloride	13200	mg/L	250	02/21/24 21:11	
EPA 6010	Calcium, Dissolved	906000	ug/L	10000	02/20/24 15:01	
EPA 6010	Iron, Dissolved	32200	ug/L	100	02/20/24 14:29	
EPA 6010	Magnesium, Dissolved	519000	ug/L	10000	02/20/24 15:01	
EPA 6010	Manganese, Dissolved	1400	ug/L	10.0	02/20/24 14:29	
EPA 6010	Potassium, Dissolved	1810000	ug/L	10000	02/20/24 15:01	
EPA 6010	Sodium, Dissolved	4570000	ug/L	20000	02/20/24 15:15	
EPA 6020	Arsenic, Dissolved	28.3	ug/L	2.0	02/21/24 21:28	
EPA 6020	Copper, Dissolved	2.9	ug/L	1.0	02/21/24 21:28	
SM 2320B	Alkalinity, Total as CaCO3	956	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	956	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	22800	mg/L	333	02/16/24 10:26	
SM 2540C	Total Dissolved Solids	18500	mg/L	333	02/16/24 10:14	
SM 4500-NH3 G	Nitrogen, Ammonia	351	mg/L	5.0	02/28/24 12:36	
50365978002	**WZ-5**					
EPA 9056	Chloride	1460	mg/L	25.0	02/21/24 21:30	
EPA 9056	Sulfate	480	mg/L	25.0	02/21/24 21:30	
EPA 6010	Calcium, Dissolved	493000	ug/L	2500	02/20/24 15:03	
EPA 6010	Iron, Dissolved	1720	ug/L	100	02/20/24 14:31	
EPA 6010	Magnesium, Dissolved	144000	ug/L	500	02/20/24 14:31	
EPA 6010	Manganese, Dissolved	1660	ug/L	10.0	02/20/24 14:31	
EPA 6010	Potassium, Dissolved	69200	ug/L	500	02/20/24 14:31	
EPA 6010	Sodium, Dissolved	451000	ug/L	2500	02/20/24 15:03	
EPA 6020	Arsenic, Dissolved	1.3	ug/L	1.0	02/21/24 20:37	
EPA 6020	Copper, Dissolved	5.9	ug/L	0.50	02/21/24 20:37	
SM 2320B	Alkalinity, Total as CaCO3	634	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	634	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	3850	mg/L	40.0	02/16/24 10:27	
SM 2540C	Total Dissolved Solids	3540	mg/L	40.0	02/19/24 12:06	
SM 4500-NH3 G	Nitrogen, Ammonia	12.9	mg/L	0.10	02/28/24 12:39	
50365978003	**WZ-9**					
EPA 9056	Chloride	65.8	mg/L	2.5	02/21/24 21:50	
EPA 9056	Sulfate	488	mg/L	2.5	02/21/24 21:50	
EPA 6010	Calcium, Dissolved	288000	ug/L	1000	02/20/24 15:04	
EPA 6010	Iron, Dissolved	7840	ug/L	100	02/20/24 14:32	
EPA 6010	Magnesium, Dissolved	91600	ug/L	500	02/20/24 14:32	
EPA 6010	Manganese, Dissolved	3160	ug/L	10.0	02/20/24 14:32	
EPA 6010	Potassium, Dissolved	2210	ug/L	500	02/20/24 14:32	
EPA 6010	Sodium, Dissolved	24300	ug/L	500	02/20/24 14:32	
EPA 6020	Arsenic, Dissolved	2.6	ug/L	1.0	02/21/24 20:40	
EPA 6020	Copper, Dissolved	4.4	ug/L	0.50	02/21/24 20:40	
SM 2320B	Alkalinity, Total as CaCO3	595	mg/L	10.0	02/20/24 00:02	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	595	mg/L	10.0	02/20/24 00:02	
SM 2540B	Total Solids	1500	mg/L	20.0	02/16/24 10:27	
SM 2540C	Total Dissolved Solids	1400	mg/L	20.0	02/19/24 12:07	
SM 4500-NH3 G	Nitrogen, Ammonia	0.22	mg/L	0.10	02/28/24 12:41	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-3 **Lab ID: 50365978001** Collected: 02/12/24 09:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**13200**	mg/L	250	1000		02/21/24 21:11	16887-00-6	
Sulfate	ND	mg/L	2.5	10		02/21/24 20:52	14808-79-8	D4
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:29	7440-43-9	
Calcium, Dissolved	**906000**	ug/L	10000	20	02/20/24 13:41	02/20/24 15:01	7440-70-2	
Iron, Dissolved	**32200**	ug/L	100	1	02/20/24 13:41	02/20/24 14:29	7439-89-6	
Magnesium, Dissolved	**519000**	ug/L	10000	20	02/20/24 13:41	02/20/24 15:01	7439-95-4	
Manganese, Dissolved	**1400**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:29	7439-96-5	
Potassium, Dissolved	**1810000**	ug/L	10000	20	02/20/24 13:41	02/20/24 15:01	7440-09-7	
Sodium, Dissolved	**4570000**	ug/L	20000	40	02/20/24 13:41	02/20/24 15:15	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**28.3**	ug/L	2.0	2	02/20/24 09:45	02/21/24 21:28	7440-38-2	
Chromium, Dissolved	ND	ug/L	10.0	2	02/20/24 09:45	02/21/24 21:28	7440-47-3	D3
Copper, Dissolved	**2.9**	ug/L	1.0	2	02/20/24 09:45	02/21/24 21:28	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	5.0	5		02/21/24 04:56	71-43-2	
Bromomethane	ND	ug/L	10.0	5		02/21/24 04:56	74-83-9	
Carbon tetrachloride	ND	ug/L	5.0	5		02/21/24 04:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		02/21/24 04:56	108-90-7	
Chloroethane	ND	ug/L	5.0	5		02/21/24 04:56	75-00-3	
Chloroform	ND	ug/L	5.0	5		02/21/24 04:56	67-66-3	
Chloromethane	ND	ug/L	5.0	5		02/21/24 04:56	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		02/21/24 04:56	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		02/21/24 04:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	5		02/21/24 04:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		02/21/24 04:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		02/21/24 04:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		02/21/24 04:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		02/21/24 04:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		02/21/24 04:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		02/21/24 04:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		02/21/24 04:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	5		02/21/24 04:56	100-41-4	
Methylene Chloride	ND	ug/L	15.0	5		02/21/24 04:56	75-09-2	
Styrene	ND	ug/L	5.0	5		02/21/24 04:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		02/21/24 04:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		02/21/24 04:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		02/21/24 04:56	127-18-4	
Toluene	ND	ug/L	5.0	5		02/21/24 04:56	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-3 **Lab ID: 50365978001** Collected: 02/12/24 09:45 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1,1-Trichloroethane	ND	ug/L	5.0	5		02/21/24 04:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		02/21/24 04:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		02/21/24 04:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		02/21/24 04:56	75-69-4	
Vinyl chloride	ND	ug/L	10.0	5		02/21/24 04:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		02/21/24 04:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	5		02/21/24 04:56	460-00-4	F1
Dibromofluoromethane (S)	97	%.	82-128	5		02/21/24 04:56	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	5		02/21/24 04:56	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**956**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**956**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**22800**	mg/L	333	1		02/16/24 10:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**18500**	mg/L	333	1		02/16/24 10:14		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**351**	mg/L	5.0	50		02/28/24 12:36	7664-41-7	

Sample: WZ-5 **Lab ID: 50365978002** Collected: 02/12/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**1460**	mg/L	25.0	100		02/21/24 21:30	16887-00-6	
Sulfate	**480**	mg/L	25.0	100		02/21/24 21:30	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:31	7440-43-9	
Calcium, Dissolved	**493000**	ug/L	2500	5	02/20/24 13:41	02/20/24 15:03	7440-70-2	
Iron, Dissolved	**1720**	ug/L	100	1	02/20/24 13:41	02/20/24 14:31	7439-89-6	
Magnesium, Dissolved	**144000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:31	7439-95-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-5 **Lab ID: 50365978002** Collected: 02/12/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Manganese, Dissolved	**1660**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:31	7439-96-5	
Potassium, Dissolved	**69200**	ug/L	500	1	02/20/24 13:41	02/20/24 14:31	7440-09-7	
Sodium, Dissolved	**451000**	ug/L	2500	5	02/20/24 13:41	02/20/24 15:03	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	02/20/24 09:45	02/21/24 20:37	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 20:37	7440-47-3	
Copper, Dissolved	**5.9**	ug/L	0.50	1	02/20/24 09:45	02/21/24 20:37	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 05:25	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 05:25	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 05:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 05:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 05:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 05:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 05:25	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 05:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 05:25	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 05:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 05:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 05:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 05:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 05:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 05:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 05:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 05:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 05:25	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 05:25	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 05:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 05:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 05:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 05:25	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 05:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 05:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 05:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 05:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 05:25	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 05:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 05:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 05:25	460-00-4	
Dibromofluoromethane (S)	97	%.	82-128	1		02/21/24 05:25	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 05:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-5 **Lab ID: 50365978002** Collected: 02/12/24 10:20 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**634**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**634**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B Pace Analytical Services - Indianapolis							
Total Solids	**3850**	mg/L	40.0	1		02/16/24 10:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**3540**	mg/L	40.0	1		02/19/24 12:06		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**12.9**	mg/L	0.10	1		02/28/24 12:39	7664-41-7	

Sample: WZ-9 **Lab ID: 50365978003** Collected: 02/12/24 12:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**65.8**	mg/L	2.5	10		02/21/24 21:50	16887-00-6	
Sulfate	**488**	mg/L	2.5	10		02/21/24 21:50	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:32	7440-43-9	
Calcium, Dissolved	**288000**	ug/L	1000	2	02/20/24 13:41	02/20/24 15:04	7440-70-2	
Iron, Dissolved	**7840**	ug/L	100	1	02/20/24 13:41	02/20/24 14:32	7439-89-6	
Magnesium, Dissolved	**91600**	ug/L	500	1	02/20/24 13:41	02/20/24 14:32	7439-95-4	
Manganese, Dissolved	**3160**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:32	7439-96-5	
Potassium, Dissolved	**2210**	ug/L	500	1	02/20/24 13:41	02/20/24 14:32	7440-09-7	
Sodium, Dissolved	**24300**	ug/L	500	1	02/20/24 13:41	02/20/24 14:32	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**2.6**	ug/L	1.0	1	02/20/24 09:45	02/21/24 20:40	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 20:40	7440-47-3	
Copper, Dissolved	**4.4**	ug/L	0.50	1	02/20/24 09:45	02/21/24 20:40	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 05:55	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-9 **Lab ID: 50365978003** Collected: 02/12/24 12:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Bromomethane	ND	ug/L	2.0	1		02/21/24 05:55	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 05:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 05:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 05:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 05:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 05:55	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 05:55	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 05:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 05:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 05:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 05:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 05:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 05:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 05:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 05:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 05:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 05:55	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 05:55	75-09-2	
Styrene	ND	ug/L	1.0	1		02/21/24 05:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 05:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 05:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 05:55	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 05:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 05:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 05:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 05:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 05:55	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 05:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 05:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%.	79-124	1		02/21/24 05:55	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 05:55	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/21/24 05:55	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**595**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Bicarbonate (CaCO3)	**595**	mg/L	10.0	1		02/20/24 00:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/20/24 00:02		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**1500**	mg/L	20.0	1		02/16/24 10:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Sample: WZ-9 **Lab ID: 50365978003** Collected: 02/12/24 12:10 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1400**	mg/L	20.0	1		02/19/24 12:07		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.22**	mg/L	0.10	1		02/28/24 12:41	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776398
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3554078 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 13:06	
Sulfate	mg/L	ND	0.25	02/23/24 13:06	

LABORATORY CONTROL SAMPLE: 3554079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776406
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3554129 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/20/24 14:10	
Calcium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Iron, Dissolved	ug/L	ND	100	02/20/24 14:10	
Magnesium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Manganese, Dissolved	ug/L	ND	10.0	02/20/24 14:10	
Potassium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Sodium, Dissolved	ug/L	ND	500	02/20/24 14:10	

LABORATORY CONTROL SAMPLE: 3554130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	1080	108	80-120	
Calcium, Dissolved	ug/L	10000	10500	105	80-120	
Iron, Dissolved	ug/L	10000	10800	108	80-120	
Magnesium, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	1000	1050	105	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554131 3554132

Parameter	Units	50365977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	20	
Calcium, Dissolved	ug/L	108000	10000	10000	116000	115000	85	72	75-125	1	20	P6
Iron, Dissolved	ug/L	3390	10000	10000	14100	13900	107	106	75-125	1	20	
Magnesium, Dissolved	ug/L	33700	10000	10000	43400	42900	97	91	75-125	1	20	
Manganese, Dissolved	ug/L	66.7	1000	1000	1110	1100	104	103	75-125	1	20	
Potassium, Dissolved	ug/L	4720	10000	10000	14900	14900	102	102	75-125	0	20	
Sodium, Dissolved	ug/L	77300	10000	10000	85400	85000	81	78	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776492
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3554410 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/24 04:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/24 04:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Benzene	ug/L	ND	1.0	02/21/24 04:26	
Bromomethane	ug/L	ND	2.0	02/21/24 04:26	
Carbon tetrachloride	ug/L	ND	1.0	02/21/24 04:26	
Chlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Chloroethane	ug/L	ND	1.0	02/21/24 04:26	
Chloroform	ug/L	ND	1.0	02/21/24 04:26	
Chloromethane	ug/L	ND	1.0	02/21/24 04:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Ethylbenzene	ug/L	ND	1.0	02/21/24 04:26	
Methylene Chloride	ug/L	ND	3.0	02/21/24 04:26	
Styrene	ug/L	ND	1.0	02/21/24 04:26	
Tetrachloroethene	ug/L	ND	1.0	02/21/24 04:26	
Toluene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Trichloroethene	ug/L	ND	1.0	02/21/24 04:26	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/24 04:26	
Vinyl chloride	ug/L	ND	2.0	02/21/24 04:26	
Xylene (Total)	ug/L	ND	2.0	02/21/24 04:26	
4-Bromofluorobenzene (S)	%.	92	79-124	02/21/24 04:26	
Dibromofluoromethane (S)	%.	96	82-128	02/21/24 04:26	
Toluene-d8 (S)	%.	99	73-122	02/21/24 04:26	

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	81-130	
1,1,1-Trichloroethane	ug/L	50	45.3	91	76-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-126	
1,1,2-Trichloroethane	ug/L	50	47.9	96	79-124	
1,1-Dichloroethane	ug/L	50	46.3	93	76-123	
1,1-Dichloroethene	ug/L	50	47.7	95	73-133	
1,2-Dichlorobenzene	ug/L	50	48.5	97	79-123	
1,2-Dichloroethane	ug/L	50	44.0	88	70-124	
1,2-Dichloropropane	ug/L	50	46.1	92	74-128	
1,4-Dichlorobenzene	ug/L	50	48.2	96	77-120	
Benzene	ug/L	50	47.0	94	74-124	
Bromomethane	ug/L	50	38.8	78	10-183	
Carbon tetrachloride	ug/L	50	45.1	90	78-132	
Chlorobenzene	ug/L	50	48.8	98	77-121	
Chloroethane	ug/L	50	51.6	103	43-140	
Chloroform	ug/L	50	46.2	92	75-118	
Chloromethane	ug/L	50	41.7	83	45-130	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	76-125	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	76-132	
Ethylbenzene	ug/L	50	49.2	98	74-125	
Methylene Chloride	ug/L	50	47.5	95	77-126	
Styrene	ug/L	50	49.2	98	81-129	
Tetrachloroethene	ug/L	50	49.5	99	73-132	
Toluene	ug/L	50	47.9	96	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	74-125	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	75-132	
Trichloroethene	ug/L	50	47.1	94	75-127	
Trichlorofluoromethane	ug/L	50	49.3	99	64-136	
Vinyl chloride	ug/L	50	51.4	103	48-133	
Xylene (Total)	ug/L	150	145	97	73-123	
4-Bromofluorobenzene (S)	%.			94	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.3	95	60-150	
1,1,1-Trichloroethane	ug/L	ND	50	48.8	98	63-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.3	97	58-146	
1,1,2-Trichloroethane	ug/L	ND	50	48.3	97	63-142	
1,1-Dichloroethane	ug/L	ND	50	49.0	98	64-138	
1,1-Dichloroethene	ug/L	ND	50	51.7	103	65-139	
1,2-Dichlorobenzene	ug/L	ND	50	49.9	100	50-136	
1,2-Dichloroethane	ug/L	ND	50	45.0	90	55-146	
1,2-Dichloropropane	ug/L	ND	50	47.0	94	66-134	
1,4-Dichlorobenzene	ug/L	ND	50	50.1	100	50-131	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	50	49.2	98	65-137	
Bromomethane	ug/L	ND	50	45.7	91	10-169	
Carbon tetrachloride	ug/L	ND	50	48.2	96	65-156	
Chlorobenzene	ug/L	ND	50	49.8	100	54-135	
Chloroethane	ug/L	ND	50	55.4	111	46-142	
Chloroform	ug/L	ND	50	47.9	96	64-133	
Chloromethane	ug/L	ND	50	45.5	91	30-139	
cis-1,2-Dichloroethene	ug/L	ND	50	50.5	101	59-141	
cis-1,3-Dichloropropene	ug/L	ND	50	45.1	90	57-141	
Ethylbenzene	ug/L	ND	50	51.1	102	50-143	
Methylene Chloride	ug/L	ND	50	47.5	95	53-126	
Styrene	ug/L	ND	50	49.1	98	57-141	
Tetrachloroethene	ug/L	ND	50	52.6	105	43-149	
Toluene	ug/L	ND	50	49.3	99	57-137	
trans-1,2-Dichloroethene	ug/L	ND	50	49.3	99	63-133	
trans-1,3-Dichloropropene	ug/L	ND	50	42.2	84	56-140	
Trichloroethene	ug/L	ND	50	49.3	99	52-145	
Trichlorofluoromethane	ug/L	ND	50	54.7	109	52-144	
Vinyl chloride	ug/L	ND	50	56.5	113	43-139	
Xylene (Total)	ug/L	ND	150	151	100	52-137	
4-Bromofluorobenzene (S)	%.				94	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				98	73-122	

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	92	93			
Dibromofluoromethane (S)	%.	96	97			
Toluene-d8 (S)	%.	98	98			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776264
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3553545 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/20/24 00:02	

LABORATORY CONTROL SAMPLE: 3553546

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	90-110	

SAMPLE DUPLICATE: 3553547

Parameter	Units	50365978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	956	972	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	956	972	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553548

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	439	447	2	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	439	447	2	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 775850 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 775849
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001

METHOD BLANK: 3551699 Matrix: Water
Associated Lab Samples: 50365978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/16/24 10:04	

LABORATORY CONTROL SAMPLE: 3551700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3551701

Parameter	Units	50365670001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	612	632	3	10	

SAMPLE DUPLICATE: 3551702

Parameter	Units	50365978001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18500	20000	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 776112
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978002, 50365978003

METHOD BLANK: 3553081 Matrix: Water
Associated Lab Samples: 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/19/24 12:06	

LABORATORY CONTROL SAMPLE: 3553082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	264	88	80-120	

SAMPLE DUPLICATE: 3553083

Parameter	Units	50365978002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3540	3460	2	10	

SAMPLE DUPLICATE: 3553084

Parameter	Units	50365754001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	758	773	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

QC Batch: 777741
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365978001, 50365978002, 50365978003

METHOD BLANK: 3559711 Matrix: Water
Associated Lab Samples: 50365978001, 50365978002, 50365978003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 12:12	

LABORATORY CONTROL SAMPLE: 3559712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559713 3559714

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.25	5	5	5.4	5.4	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3559719

Parameter	Units	50365977003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	5	5.2	102	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

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.
D4	Sample was diluted due to the presence of high levels of target analytes.
F1	The sample was analyzed at a dilution due to foaming of the sample in the purge vessel.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley Witness Zones
Pace Project No.: 50365978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365978001	**WZ-3**	EPA 9056	776398		
50365978002	**WZ-5**	EPA 9056	776398		
50365978003	**WZ-9**	EPA 9056	776398		
50365978001	**WZ-3**	EPA 3010	776406	EPA 6010	776408
50365978002	**WZ-5**	EPA 3010	776406	EPA 6010	776408
50365978003	**WZ-9**	EPA 3010	776406	EPA 6010	776408
50365978001	**WZ-3**	EPA 200.2	776028	EPA 6020	776510
50365978002	**WZ-5**	EPA 200.2	776028	EPA 6020	776510
50365978003	**WZ-9**	EPA 200.2	776028	EPA 6020	776510
50365978001	**WZ-3**	EPA 5030B/8260	776492		
50365978002	**WZ-5**	EPA 5030B/8260	776492		
50365978003	**WZ-9**	EPA 5030B/8260	776492		
50365978001	**WZ-3**	SM 2320B	776264		
50365978002	**WZ-5**	SM 2320B	776264		
50365978003	**WZ-9**	SM 2320B	776264		
50365978001	**WZ-3**	SM 2540B	775850		
50365978002	**WZ-5**	SM 2540B	775850		
50365978003	**WZ-9**	SM 2540B	775850		
50365978001	**WZ-3**	SM 2540C	775849		
50365978002	**WZ-5**	SM 2540C	776112		
50365978003	**WZ-9**	SM 2540C	776112		
50365978001	**WZ-3**	SM 4500-NH3 G	777741		
50365978002	**WZ-5**	SM 4500-NH3 G	777741		
50365978003	**WZ-9**	SM 4500-NH3 G	777741		

Pace

CHAIN-OF-CUSTOD

The Chain-of-Custody is a LEGA

WO# : 50365978

50365978

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Inform
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention: AP
Address:	5154 East 65th Street	Copy To:		Company Name: Republic Services
	Indianapolis, IN 46220			Address:
Email:	sreuter@sescogroup.com	Purchase Order #:		Pace Quote:
Phone:	317-752-3435 Fax:	Project Name:	Wabash Valley Witness Zones	Pace Project Manager: kenneth.hunt@pacelabs.com
Requested Due Date:	10BD	Project #:		Pace Profile #: 5235 / 3

Regulatory Agency
State / Location
IN

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Volatiles 8260	Dissolved Metals 6010/6020	9056 (Chloride, Sulfate), Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Residual Chlorine (Y/N)	
1	WZ-3	WT	G			2-12-24	945		7	2	1	1	3						X	X	X	X	X		001
2	WZ-4	WT	G						7	2	1	1	3						X	X	X	X	X		NO Sample
3	WZ-5	WT	G			2-12-24	1020		7	2	1	1	3						X	X	X	X	X		002
4	WZ-6	WT	G						7	2	1	1	3						X	X	X	X	X		" "
5	WZ-7	WT	G						7	2	1	1	3						X	X	X	X	X		" "
6	WZ-8	WT	G						7	2	1	1	3						X	X	X	X	X		" "
7	WZ-9	WT	G			2-12-24	1210		7	2	1	1	3						X	X	X	X	X		003
8	WZ-11B	WT	G						7	2	1	1	3						X	X	X	X	X		" "
9																									
10																									
11																									
12																									

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
6010 = Cd, Ca, Fe, Mg, Mn, K, Na		2-15-24	1405	Pace	2/15/24	1345	0.5	4	N	4
6020 = As, Cr, Cu										

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	RYAN FRANCIS		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed: 2-15-24				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMC

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE | COMMENTS | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? Analysis:			Circle: **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3 2.5/2.4, 0.6/0.5

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	AMBER GLASS: DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				3													2			1	1								WT	✓	✓		
2																																
3				3													2			1	1									✓	✓		
4																																
5																																
6																																
7				3													2			1	1									✓	✓		
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50365979001	**MW-3S**	Water	02/13/24 16:35	02/15/24 13:45

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SAMPLE ANALYTE COUNT

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50365979001	**MW-3S**	EPA 9056	KBB	2
		EPA 6010	ELK	7
		EPA 6020	MGM	3
		EPA 5030B/8260	ALA	33
		SM 2320B	DAW	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50365979001	**MW-3S**					
EPA 9056	Chloride	1130	mg/L	25.0	02/21/24 22:48	
EPA 9056	Sulfate	0.30	mg/L	0.25	02/21/24 22:28	
EPA 6010	Calcium, Dissolved	192000	ug/L	500	02/20/24 14:33	
EPA 6010	Iron, Dissolved	32000	ug/L	100	02/20/24 14:33	
EPA 6010	Magnesium, Dissolved	123000	ug/L	500	02/20/24 14:33	
EPA 6010	Manganese, Dissolved	182	ug/L	10.0	02/20/24 14:33	
EPA 6010	Potassium, Dissolved	104000	ug/L	2500	02/20/24 15:05	
EPA 6010	Sodium, Dissolved	405000	ug/L	2500	02/20/24 15:05	
EPA 6020	Arsenic, Dissolved	189	ug/L	1.0	02/21/24 20:50	
EPA 6020	Copper, Dissolved	1.8	ug/L	0.50	02/21/24 20:50	
EPA 5030B/8260	Benzene	2.6	ug/L	1.0	02/20/24 11:17	
EPA 5030B/8260	Chlorobenzene	4.0	ug/L	1.0	02/20/24 11:17	
SM 2320B	Alkalinity, Total as CaCO3	827	mg/L	10.0	02/19/24 21:30	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	827	mg/L	10.0	02/19/24 21:30	
SM 2540B	Total Solids	2610	mg/L	40.0	02/16/24 10:46	
SM 2540C	Total Dissolved Solids	2550	mg/L	40.0	02/20/24 07:55	
SM 4500-NH3 G	Nitrogen, Ammonia	72.9	mg/L	2.0	02/28/24 12:43	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Sample: MW-3S **Lab ID: 50365979001** Collected: 02/13/24 16:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
	Pace Analytical Services - Indianapolis							
Chloride	**1130**	mg/L	25.0	100		02/21/24 22:48	16887-00-6	
Sulfate	**0.30**	mg/L	0.25	1		02/21/24 22:28	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:33	7440-43-9	
Calcium, Dissolved	**192000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:33	7440-70-2	
Iron, Dissolved	**32000**	ug/L	100	1	02/20/24 13:41	02/20/24 14:33	7439-89-6	
Magnesium, Dissolved	**123000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:33	7439-95-4	
Manganese, Dissolved	**182**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:33	7439-96-5	
Potassium, Dissolved	**104000**	ug/L	2500	5	02/20/24 13:41	02/20/24 15:05	7440-09-7	
Sodium, Dissolved	**405000**	ug/L	2500	5	02/20/24 13:41	02/20/24 15:05	7440-23-5	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
	Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**189**	ug/L	1.0	1	02/20/24 09:45	02/21/24 20:50	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 20:50	7440-47-3	
Copper, Dissolved	**1.8**	ug/L	0.50	1	02/20/24 09:45	02/21/24 20:50	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Benzene	**2.6**	ug/L	1.0	1		02/20/24 11:17	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/20/24 11:17	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/20/24 11:17	56-23-5	
Chlorobenzene	**4.0**	ug/L	1.0	1		02/20/24 11:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/20/24 11:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/20/24 11:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/20/24 11:17	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/20/24 11:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/20/24 11:17	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/20/24 11:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/20/24 11:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/20/24 11:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/24 11:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/20/24 11:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/20/24 11:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/24 11:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/20/24 11:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/20/24 11:17	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/20/24 11:17	75-09-2	
Styrene	ND	ug/L	1.0	1		02/20/24 11:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/24 11:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/20/24 11:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/20/24 11:17	127-18-4	
Toluene	ND	ug/L	1.0	1		02/20/24 11:17	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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ANALYTICAL RESULTS

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Sample: MW-3S **Lab ID: 50365979001** Collected: 02/13/24 16:35 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/20/24 11:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/20/24 11:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/20/24 11:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/20/24 11:17	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/20/24 11:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/20/24 11:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%.	79-124	1		02/20/24 11:17	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/20/24 11:17	1868-53-7	
Toluene-d8 (S)	98	%.	73-122	1		02/20/24 11:17	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**827**	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Bicarbonate (CaCO3)	**827**	mg/L	10.0	1		02/19/24 21:30		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/19/24 21:30		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**2610**	mg/L	40.0	1		02/16/24 10:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**2550**	mg/L	40.0	1		02/20/24 07:55		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**72.9**	mg/L	2.0	20		02/28/24 12:43	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776398
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3554078 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 13:06	
Sulfate	mg/L	ND	0.25	02/23/24 13:06	

LABORATORY CONTROL SAMPLE: 3554079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776406
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3554129 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/20/24 14:10	
Calcium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Iron, Dissolved	ug/L	ND	100	02/20/24 14:10	
Magnesium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Manganese, Dissolved	ug/L	ND	10.0	02/20/24 14:10	
Potassium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Sodium, Dissolved	ug/L	ND	500	02/20/24 14:10	

LABORATORY CONTROL SAMPLE: 3554130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	1080	108	80-120	
Calcium, Dissolved	ug/L	10000	10500	105	80-120	
Iron, Dissolved	ug/L	10000	10800	108	80-120	
Magnesium, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	1000	1050	105	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554131 3554132

Parameter	Units	50365977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	20	
Calcium, Dissolved	ug/L	108000	10000	10000	116000	115000	85	72	75-125	1	20	P6
Iron, Dissolved	ug/L	3390	10000	10000	14100	13900	107	106	75-125	1	20	
Magnesium, Dissolved	ug/L	33700	10000	10000	43400	42900	97	91	75-125	1	20	
Manganese, Dissolved	ug/L	66.7	1000	1000	1110	1100	104	103	75-125	1	20	
Potassium, Dissolved	ug/L	4720	10000	10000	14900	14900	102	102	75-125	0	20	
Sodium, Dissolved	ug/L	77300	10000	10000	85400	85000	81	78	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776256
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3553526 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,1-Dichloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,1-Dichloroethene	ug/L	ND	5.0	02/20/24 03:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/20/24 03:27	
1,2-Dichloroethane	ug/L	ND	1.0	02/20/24 03:27	
1,2-Dichloropropane	ug/L	ND	1.0	02/20/24 03:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/20/24 03:27	
Benzene	ug/L	ND	1.0	02/20/24 03:27	
Bromomethane	ug/L	ND	2.0	02/20/24 03:27	
Carbon tetrachloride	ug/L	ND	1.0	02/20/24 03:27	
Chlorobenzene	ug/L	ND	1.0	02/20/24 03:27	
Chloroethane	ug/L	ND	1.0	02/20/24 03:27	
Chloroform	ug/L	ND	1.0	02/20/24 03:27	
Chloromethane	ug/L	ND	1.0	02/20/24 03:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/20/24 03:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/20/24 03:27	
Ethylbenzene	ug/L	ND	1.0	02/20/24 03:27	
Methylene Chloride	ug/L	ND	3.0	02/20/24 03:27	
Styrene	ug/L	ND	1.0	02/20/24 03:27	
Tetrachloroethene	ug/L	ND	1.0	02/20/24 03:27	
Toluene	ug/L	ND	1.0	02/20/24 03:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/20/24 03:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/20/24 03:27	
Trichloroethene	ug/L	ND	1.0	02/20/24 03:27	
Trichlorofluoromethane	ug/L	ND	5.0	02/20/24 03:27	
Vinyl chloride	ug/L	ND	2.0	02/20/24 03:27	
Xylene (Total)	ug/L	ND	2.0	02/20/24 03:27	
4-Bromofluorobenzene (S)	%.	93	79-124	02/20/24 03:27	
Dibromofluoromethane (S)	%.	94	82-128	02/20/24 03:27	
Toluene-d8 (S)	%.	99	73-122	02/20/24 03:27	

LABORATORY CONTROL SAMPLE: 3553527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.7	99	81-130	
1,1,1-Trichloroethane	ug/L	50	49.3	99	76-127	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

LABORATORY CONTROL SAMPLE: 3553527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-126	
1,1,2-Trichloroethane	ug/L	50	50.3	101	79-124	
1,1-Dichloroethane	ug/L	50	49.5	99	76-123	
1,1-Dichloroethene	ug/L	50	50.7	101	73-133	
1,2-Dichlorobenzene	ug/L	50	52.5	105	79-123	
1,2-Dichloroethane	ug/L	50	49.0	98	70-124	
1,2-Dichloropropane	ug/L	50	49.1	98	74-128	
1,4-Dichlorobenzene	ug/L	50	51.9	104	77-120	
Benzene	ug/L	50	50.2	100	74-124	
Bromomethane	ug/L	50	44.8	90	10-183	
Carbon tetrachloride	ug/L	50	49.0	98	78-132	
Chlorobenzene	ug/L	50	51.3	103	77-121	
Chloroethane	ug/L	50	62.2	124	43-140	
Chloroform	ug/L	50	49.6	99	75-118	
Chloromethane	ug/L	50	42.0	84	45-130	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	76-125	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	76-132	
Ethylbenzene	ug/L	50	52.4	105	74-125	
Methylene Chloride	ug/L	50	48.8	98	77-126	
Styrene	ug/L	50	51.0	102	81-129	
Tetrachloroethene	ug/L	50	50.1	100	73-132	
Toluene	ug/L	50	49.7	99	72-119	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	74-125	
trans-1,3-Dichloropropene	ug/L	50	45.2	90	75-132	
Trichloroethene	ug/L	50	52.1	104	75-127	
Trichlorofluoromethane	ug/L	50	50.9	102	64-136	
Vinyl chloride	ug/L	50	49.2	98	48-133	
Xylene (Total)	ug/L	150	152	101	73-123	
4-Bromofluorobenzene (S)	%.			95	79-124	
Dibromofluoromethane (S)	%.			97	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553528 3553529

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.1	48.6	106	97	60-150	9	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	53.8	48.9	108	98	63-138	10	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.9	47.1	106	94	58-146	11	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	53.5	47.6	107	95	63-142	12	20	
1,1-Dichloroethane	ug/L	ND	50	50	53.5	46.7	107	93	64-138	14	20	
1,1-Dichloroethene	ug/L	ND	50	50	54.3	49.9	109	100	65-139	8	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.7	49.6	107	99	50-136	8	20	
1,2-Dichloroethane	ug/L	ND	50	50	52.4	46.9	105	94	55-146	11	20	
1,2-Dichloropropane	ug/L	ND	50	50	53.2	47.9	106	96	66-134	10	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3553528 3553529

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	ND	50	50	53.5	49.0	107	98	50-131	9	20	
Benzene	ug/L	ND	50	50	54.3	49.4	109	99	65-137	9	20	
Bromomethane	ug/L	ND	50	50	17.9	18.2	36	36	10-169	2	20	
Carbon tetrachloride	ug/L	ND	50	50	53.3	48.8	107	98	65-156	9	20	
Chlorobenzene	ug/L	ND	50	50	54.0	49.9	108	100	54-135	8	20	
Chloroethane	ug/L	ND	50	50	68.2	61.4	136	123	46-142	10	20	
Chloroform	ug/L	ND	50	50	53.1	48.2	106	96	64-133	10	20	
Chloromethane	ug/L	ND	50	50	46.4	42.1	93	84	30-139	10	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.9	48.4	106	97	59-141	9	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	47.4	42.2	95	84	57-141	11	20	
Ethylbenzene	ug/L	ND	50	50	55.8	51.0	112	102	50-143	9	20	
Methylene Chloride	ug/L	ND	50	50	51.2	47.1	102	94	53-126	8	20	
Styrene	ug/L	ND	50	50	52.8	49.2	106	98	57-141	7	20	
Tetrachloroethene	ug/L	ND	50	50	54.0	49.9	108	100	43-149	8	20	
Toluene	ug/L	ND	50	50	52.5	48.3	105	97	57-137	8	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	51.2	47.3	102	95	63-133	8	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.9	40.3	90	81	56-140	11	20	
Trichloroethene	ug/L	ND	50	50	55.4	50.9	111	102	52-145	8	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.1	48.0	104	96	52-144	8	20	
Vinyl chloride	ug/L	ND	50	50	49.9	45.7	100	91	43-139	9	20	
Xylene (Total)	ug/L	ND	150	150	161	149	108	99	52-137	8	20	
4-Bromofluorobenzene (S)	%.						94	95	79-124			
Dibromofluoromethane (S)	%.						98	98	82-128			
Toluene-d8 (S)	%.						99	98	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776262
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3553537 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/19/24 21:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/19/24 21:30	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/19/24 21:30	

LABORATORY CONTROL SAMPLE: 3553538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	54.6	109	90-110	

SAMPLE DUPLICATE: 3553539

Parameter	Units	50365828008 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	426	431	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	426	431	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3553540

Parameter	Units	50366036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253000 ug/L	256	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 775850
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3551703 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/16/24 10:25	

LABORATORY CONTROL SAMPLE: 3551704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3551705

Parameter	Units	50365731001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	807	820	2	10	

SAMPLE DUPLICATE: 3551706

Parameter	Units	50365973002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	493	495	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 776288
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3553644 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/20/24 07:49	

LABORATORY CONTROL SAMPLE: 3553645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	260	87	80-120	

SAMPLE DUPLICATE: 3553646

Parameter	Units	50365782006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	518	512	1	10	

SAMPLE DUPLICATE: 3553647

Parameter	Units	50365835001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	408	400	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

QC Batch: 777741
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50365979001

METHOD BLANK: 3559711 Matrix: Water
Associated Lab Samples: 50365979001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 12:12	

LABORATORY CONTROL SAMPLE: 3559712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559713 3559714

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.25	5	5	5.4	5.4	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3559719

Parameter	Units	50365977003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	5	5.2	102	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

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

P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley West Area Detect
Pace Project No.: 50365979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50365979001	**MW-3S**	EPA 9056	776398		
50365979001	**MW-3S**	EPA 3010	776406	EPA 6010	776408
50365979001	**MW-3S**	EPA 200.2	776028	EPA 6020	776510
50365979001	**MW-3S**	EPA 5030B/8260	776256		
50365979001	**MW-3S**	SM 2320B	776262		
50365979001	**MW-3S**	SM 2540B	775850		
50365979001	**MW-3S**	SM 2540C	776288		
50365979001	**MW-3S**	SM 4500-NH3 G	777741		

Pace

CHAIN-OF-CUSTOD

The Chain-of-Custody is a LEGA

WO# : 50365979

50365979

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Inform	
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention:	A
Address:	5154 East 65th Street	Copy To:		Company Name:	Republic Services
	Indianapolis, IN 46220			Address:	
Email:	sreuter@sescogroup.com	Purchase Order #:		Pace Quote:	
Phone:	317-752-3435 Fax:	Project Name:	Wabash Valley West Area Detect	Pace Project Manager:	kenneth.hunt@pacelabs.com
Requested Due Date:	10BD	Project #:		Pace Profile #:	5235 / 3

Regulatory Agency
State / Location
IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Volatiles 8260	Dissolved Metals 6010/6020	9056 (Chloride, Sulfate), Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Residual Chlorine (Y/N)
1	MW-3S	WT	G		2-13-24		435		7	2	1	1	3					X	X	X	X	X		
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
6010 = Cd, Ca, Fe, Mg, Mn, K, Na		2-15-24	1415	PACE	2/15/24	1345	0.5	4	N	4
6020 = As, Cr, Cu										

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Ryan Francisco		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed: 2-15-24				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 02/15/24 1455 SMC

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D (E) F G H

4. **Cooler Temperature(s):** SEE | COMMENTS | | |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		/	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? Analysis:		/	**Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
Rush TAT Requested (4 days or less):		/	Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
Custody Signatures Present?	/		Headspace Wisconsin Sulfide?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent /	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)		/	Trip Blank Custody Seals?:			/

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6/0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3 2.5/2.4, 0.6/0.5

COC PAGE \ of \

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1				(3)													2			1	1							WT	✓	✓		
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

February 29, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50366020001	**Gill**	Water	02/14/24 09:00	02/15/24 13:45

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50366020001	**Gill**	EPA 9056	KBB	3
		EPA 6010	ELK	7
		EPA 6020	DMT	1
		EPA 6020	MGM	3
		EPA 5030B/8260	ALA	33
		SM 2320B	WDB	3
		SM 2540B	SL	1
		SM 2540C	SL	1
		SM 4500-NH3 G	OAS	1

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50366020001	**Gill**					
EPA 9056	Chloride	128	mg/L	2.5	02/24/24 03:15	
EPA 9056	Fluoride	0.70	mg/L	0.10	02/22/24 01:23	
EPA 9056	Sulfate	47.6	mg/L	2.5	02/24/24 03:15	
EPA 6010	Calcium, Dissolved	121000	ug/L	500	02/20/24 14:35	
EPA 6010	Iron, Dissolved	1980	ug/L	100	02/20/24 14:35	
EPA 6010	Magnesium, Dissolved	47900	ug/L	500	02/20/24 14:35	
EPA 6010	Manganese, Dissolved	46.7	ug/L	10.0	02/20/24 14:35	
EPA 6010	Potassium, Dissolved	6810	ug/L	500	02/20/24 14:35	
EPA 6010	Sodium, Dissolved	49700	ug/L	500	02/20/24 14:35	
EPA 6020	Arsenic, Dissolved	1.3	ug/L	1.0	02/21/24 21:00	
EPA 6020	Copper, Dissolved	0.82	ug/L	0.50	02/21/24 21:00	
SM 2320B	Alkalinity, Total as CaCO3	413	mg/L	10.0	02/21/24 11:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	413	mg/L	10.0	02/21/24 11:07	
SM 2540B	Total Solids	721	mg/L	10.0	02/21/24 10:20	
SM 2540C	Total Dissolved Solids	680	mg/L	10.0	02/21/24 08:56	
SM 4500-NH3 G	Nitrogen, Ammonia	0.47	mg/L	0.10	02/28/24 12:50	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Sample: Gill **Lab ID: 50366020001** Collected: 02/14/24 09:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**128**	mg/L	2.5	10		02/24/24 03:15	16887-00-6	
Fluoride	**0.70**	mg/L	0.10	1		02/22/24 01:23	16984-48-8	
Sulfate	**47.6**	mg/L	2.5	10		02/24/24 03:15	14808-79-8	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Cadmium, Dissolved	ND	ug/L	2.0	1	02/20/24 13:41	02/20/24 14:35	7440-43-9	
Calcium, Dissolved	**121000**	ug/L	500	1	02/20/24 13:41	02/20/24 14:35	7440-70-2	
Iron, Dissolved	**1980**	ug/L	100	1	02/20/24 13:41	02/20/24 14:35	7439-89-6	
Magnesium, Dissolved	**47900**	ug/L	500	1	02/20/24 13:41	02/20/24 14:35	7439-95-4	
Manganese, Dissolved	**46.7**	ug/L	10.0	1	02/20/24 13:41	02/20/24 14:35	7439-96-5	
Potassium, Dissolved	**6810**	ug/L	500	1	02/20/24 13:41	02/20/24 14:35	7440-09-7	
Sodium, Dissolved	**49700**	ug/L	500	1	02/20/24 13:41	02/20/24 14:35	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 06:42	7440-38-2	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Pace Analytical Services - Indianapolis							
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	02/20/24 09:45	02/21/24 21:00	7440-38-2	
Chromium, Dissolved	ND	ug/L	5.0	1	02/20/24 09:45	02/21/24 21:00	7440-47-3	
Copper, Dissolved	**0.82**	ug/L	0.50	1	02/20/24 09:45	02/21/24 21:00	7440-50-8	
8260 MSV Low Level	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Indianapolis							
Benzene	ND	ug/L	1.0	1		02/21/24 12:17	71-43-2	
Bromomethane	ND	ug/L	2.0	1		02/21/24 12:17	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		02/21/24 12:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/21/24 12:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/21/24 12:17	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/21/24 12:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/21/24 12:17	74-87-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 12:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/21/24 12:17	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/21/24 12:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/21/24 12:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/24 12:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 12:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/21/24 12:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/21/24 12:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 12:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/21/24 12:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		02/21/24 12:17	100-41-4	
Methylene Chloride	ND	ug/L	3.0	1		02/21/24 12:17	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Sample: Gill **Lab ID: 50366020001** Collected: 02/14/24 09:00 Received: 02/15/24 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	1.0	1		02/21/24 12:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 12:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/21/24 12:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/21/24 12:17	127-18-4	
Toluene	ND	ug/L	1.0	1		02/21/24 12:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/21/24 12:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/21/24 12:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/21/24 12:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/21/24 12:17	75-69-4	
Vinyl chloride	ND	ug/L	2.0	1		02/21/24 12:17	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		02/21/24 12:17	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%.	79-124	1		02/21/24 12:17	460-00-4	
Dibromofluoromethane (S)	96	%.	82-128	1		02/21/24 12:17	1868-53-7	
Toluene-d8 (S)	97	%.	73-122	1		02/21/24 12:17	2037-26-5	
2320B Alkalinity	Analytical Method: SM 2320B							
	Pace Analytical Services - Indianapolis							
Alkalinity, Total as CaCO3	**413**	mg/L	10.0	1		02/21/24 11:07		
Alkalinity,Bicarbonate (CaCO3)	**413**	mg/L	10.0	1		02/21/24 11:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	10.0	1		02/21/24 11:07		
2540B Total Solids	Analytical Method: SM 2540B							
	Pace Analytical Services - Indianapolis							
Total Solids	**721**	mg/L	10.0	1		02/21/24 10:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
	Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**680**	mg/L	10.0	1		02/21/24 08:56		
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
	Pace Analytical Services - Indianapolis							
Nitrogen, Ammonia	**0.47**	mg/L	0.10	1		02/28/24 12:50	7664-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776398
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3554078 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/23/24 13:06	
Fluoride	mg/L	ND	0.10	02/23/24 13:06	
Sulfate	mg/L	ND	0.25	02/23/24 13:06	

LABORATORY CONTROL SAMPLE: 3554079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Fluoride	mg/L	1	0.96	96	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776406
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50366020001

METHOD BLANK: 3554129 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	2.0	02/20/24 14:10	
Calcium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Iron, Dissolved	ug/L	ND	100	02/20/24 14:10	
Magnesium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Manganese, Dissolved	ug/L	ND	10.0	02/20/24 14:10	
Potassium, Dissolved	ug/L	ND	500	02/20/24 14:10	
Sodium, Dissolved	ug/L	ND	500	02/20/24 14:10	

LABORATORY CONTROL SAMPLE: 3554130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	1080	108	80-120	
Calcium, Dissolved	ug/L	10000	10500	105	80-120	
Iron, Dissolved	ug/L	10000	10800	108	80-120	
Magnesium, Dissolved	ug/L	10000	10200	102	80-120	
Manganese, Dissolved	ug/L	1000	1050	105	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554131 3554132

Parameter	Units	50365977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	1120	1110	112	111	75-125	1	20	
Calcium, Dissolved	ug/L	108000	10000	10000	116000	115000	85	72	75-125	1	20	P6
Iron, Dissolved	ug/L	3390	10000	10000	14100	13900	107	106	75-125	1	20	
Magnesium, Dissolved	ug/L	33700	10000	10000	43400	42900	97	91	75-125	1	20	
Manganese, Dissolved	ug/L	66.7	1000	1000	1110	1100	104	103	75-125	1	20	
Potassium, Dissolved	ug/L	4720	10000	10000	14900	14900	102	102	75-125	0	20	
Sodium, Dissolved	ug/L	77300	10000	10000	85400	85000	81	78	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776022
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3552722 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/21/24 04:40	

LABORATORY CONTROL SAMPLE: 3552723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	38.1	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552724 3552725

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	92.3	40	40	125	125	81	82	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552726 3552727

Parameter	Units	50365973003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	11.0	40	40	48.3	47.4	93	91	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776028
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3552732 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	1.0	02/21/24 17:35	
Chromium, Dissolved	ug/L	ND	5.0	02/21/24 17:35	
Copper, Dissolved	ug/L	ND	0.50	02/21/24 17:35	

LABORATORY CONTROL SAMPLE: 3552733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	40	37.8	95	80-120	
Chromium, Dissolved	ug/L	40	42.2	105	80-120	
Copper, Dissolved	ug/L	40	41.5	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552734 3552735

Parameter	Units	50365972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	85.9	40	40	127	123	102	93	75-125	3	20	
Chromium, Dissolved	ug/L	ND	40	40	42.1	41.4	104	102	75-125	2	20	
Copper, Dissolved	ug/L	ND	40	40	37.5	37.2	93	92	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776492
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Low Level
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3554410 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/24 04:26	
1,2-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/24 04:26	
1,2-Dichloropropane	ug/L	ND	1.0	02/21/24 04:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Benzene	ug/L	ND	1.0	02/21/24 04:26	
Bromomethane	ug/L	ND	2.0	02/21/24 04:26	
Carbon tetrachloride	ug/L	ND	1.0	02/21/24 04:26	
Chlorobenzene	ug/L	ND	1.0	02/21/24 04:26	
Chloroethane	ug/L	ND	1.0	02/21/24 04:26	
Chloroform	ug/L	ND	1.0	02/21/24 04:26	
Chloromethane	ug/L	ND	1.0	02/21/24 04:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Ethylbenzene	ug/L	ND	1.0	02/21/24 04:26	
Methylene Chloride	ug/L	ND	3.0	02/21/24 04:26	
Styrene	ug/L	ND	1.0	02/21/24 04:26	
Tetrachloroethene	ug/L	ND	1.0	02/21/24 04:26	
Toluene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/24 04:26	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/21/24 04:26	
Trichloroethene	ug/L	ND	1.0	02/21/24 04:26	
Trichlorofluoromethane	ug/L	ND	5.0	02/21/24 04:26	
Vinyl chloride	ug/L	ND	2.0	02/21/24 04:26	
Xylene (Total)	ug/L	ND	2.0	02/21/24 04:26	
4-Bromofluorobenzene (S)	%.	92	79-124	02/21/24 04:26	
Dibromofluoromethane (S)	%.	96	82-128	02/21/24 04:26	
Toluene-d8 (S)	%.	99	73-122	02/21/24 04:26	

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	81-130	
1,1,1-Trichloroethane	ug/L	50	45.3	91	76-127	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

LABORATORY CONTROL SAMPLE: 3554411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-126	
1,1,2-Trichloroethane	ug/L	50	47.9	96	79-124	
1,1-Dichloroethane	ug/L	50	46.3	93	76-123	
1,1-Dichloroethene	ug/L	50	47.7	95	73-133	
1,2-Dichlorobenzene	ug/L	50	48.5	97	79-123	
1,2-Dichloroethane	ug/L	50	44.0	88	70-124	
1,2-Dichloropropane	ug/L	50	46.1	92	74-128	
1,4-Dichlorobenzene	ug/L	50	48.2	96	77-120	
Benzene	ug/L	50	47.0	94	74-124	
Bromomethane	ug/L	50	38.8	78	10-183	
Carbon tetrachloride	ug/L	50	45.1	90	78-132	
Chlorobenzene	ug/L	50	48.8	98	77-121	
Chloroethane	ug/L	50	51.6	103	43-140	
Chloroform	ug/L	50	46.2	92	75-118	
Chloromethane	ug/L	50	41.7	83	45-130	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	76-125	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	76-132	
Ethylbenzene	ug/L	50	49.2	98	74-125	
Methylene Chloride	ug/L	50	47.5	95	77-126	
Styrene	ug/L	50	49.2	98	81-129	
Tetrachloroethene	ug/L	50	49.5	99	73-132	
Toluene	ug/L	50	47.9	96	72-119	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	74-125	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	75-132	
Trichloroethene	ug/L	50	47.1	94	75-127	
Trichlorofluoromethane	ug/L	50	49.3	99	64-136	
Vinyl chloride	ug/L	50	51.4	103	48-133	
Xylene (Total)	ug/L	150	145	97	73-123	
4-Bromofluorobenzene (S)	%.			94	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			99	73-122	

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.3	95	60-150	
1,1,1-Trichloroethane	ug/L	ND	50	48.8	98	63-138	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	48.3	97	58-146	
1,1,2-Trichloroethane	ug/L	ND	50	48.3	97	63-142	
1,1-Dichloroethane	ug/L	ND	50	49.0	98	64-138	
1,1-Dichloroethene	ug/L	ND	50	51.7	103	65-139	
1,2-Dichlorobenzene	ug/L	ND	50	49.9	100	50-136	
1,2-Dichloroethane	ug/L	ND	50	45.0	90	55-146	
1,2-Dichloropropane	ug/L	ND	50	47.0	94	66-134	
1,4-Dichlorobenzene	ug/L	ND	50	50.1	100	50-131	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

MATRIX SPIKE SAMPLE: 3554412

Parameter	Units	50365974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	ND	50	49.2	98	65-137	
Bromomethane	ug/L	ND	50	45.7	91	10-169	
Carbon tetrachloride	ug/L	ND	50	48.2	96	65-156	
Chlorobenzene	ug/L	ND	50	49.8	100	54-135	
Chloroethane	ug/L	ND	50	55.4	111	46-142	
Chloroform	ug/L	ND	50	47.9	96	64-133	
Chloromethane	ug/L	ND	50	45.5	91	30-139	
cis-1,2-Dichloroethene	ug/L	ND	50	50.5	101	59-141	
cis-1,3-Dichloropropene	ug/L	ND	50	45.1	90	57-141	
Ethylbenzene	ug/L	ND	50	51.1	102	50-143	
Methylene Chloride	ug/L	ND	50	47.5	95	53-126	
Styrene	ug/L	ND	50	49.1	98	57-141	
Tetrachloroethene	ug/L	ND	50	52.6	105	43-149	
Toluene	ug/L	ND	50	49.3	99	57-137	
trans-1,2-Dichloroethene	ug/L	ND	50	49.3	99	63-133	
trans-1,3-Dichloropropene	ug/L	ND	50	42.2	84	56-140	
Trichloroethene	ug/L	ND	50	49.3	99	52-145	
Trichlorofluoromethane	ug/L	ND	50	54.7	109	52-144	
Vinyl chloride	ug/L	ND	50	56.5	113	43-139	
Xylene (Total)	ug/L	ND	150	151	100	52-137	
4-Bromofluorobenzene (S)	%.				94	79-124	
Dibromofluoromethane (S)	%.				98	82-128	
Toluene-d8 (S)	%.				98	73-122	

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

SAMPLE DUPLICATE: 3554413

Parameter	Units	50365974002 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	92	93			
Dibromofluoromethane (S)	%.	96	97			
Toluene-d8 (S)	%.	98	98			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776545
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3554600 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	02/21/24 11:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	02/21/24 11:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	10.0	02/21/24 11:07	

LABORATORY CONTROL SAMPLE: 3554601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	90-110	

SAMPLE DUPLICATE: 3554602

Parameter	Units	50365981003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	448	450	0	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	448	450	0	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 3554603

Parameter	Units	50365995002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	295	292	1	20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	295	292	1	20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776531
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3554570 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	10.0	02/21/24 10:17	

LABORATORY CONTROL SAMPLE: 3554571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3554572

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	875	869	1	10	

SAMPLE DUPLICATE: 3554573

Parameter	Units	50365972002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	1000	1080	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 776532
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3554574 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/21/24 08:48	

LABORATORY CONTROL SAMPLE: 3554575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3554576

Parameter	Units	50365973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	859	855	0	10	

SAMPLE DUPLICATE: 3554577

Parameter	Units	50365973003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	850	851	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

QC Batch: 777741
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50366020001

METHOD BLANK: 3559711 Matrix: Water
Associated Lab Samples: 50366020001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/24 12:12	

LABORATORY CONTROL SAMPLE: 3559712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3559713 3559714

Parameter	Units	50365981003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.25	5	5	5.4	5.4	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 3559719

Parameter	Units	50365977003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	5	5.2	102	90-110	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
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QUALIFIERS

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

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

P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley Gill Residential
Pace Project No.: 50366020

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50366020001	**Gill**	EPA 9056	776398		
50366020001	**Gill**	EPA 3010	776406	EPA 6010	776408
50366020001	**Gill**	EPA 200.2	776022	EPA 6020	776509
50366020001	**Gill**	EPA 200.2	776028	EPA 6020	776510
50366020001	**Gill**	EPA 5030B/8260	776492		
50366020001	**Gill**	SM 2320B	776545		
50366020001	**Gill**	SM 2540B	776531		
50366020001	**Gill**	SM 2540C	776532		
50366020001	**Gill**	SM 4500-NH3 G	777741		

5036020

Pace

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Indiana Landfills	Report To:	Steve Reuter	Attention:	AP
Address:	5154 East 65th Street	Copy To:		Company Name:	Republic Services
	Indianapolis, IN 46220			Address:	
Email:	sreuter@sescogroup.com	Purchase Order #:		Pace Quote:	
Phone:	317-752-3435 Fax:	Project Name:	Wabash Valley Gill Residential	Pace Project Manager:	kenneth.hunt@pacelabs.com
Requested Due Date:	10BD	Project #:		Pace Profile #:	5235 / 4

Regulatory Agency

State / Location: IN

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	Total Metals 6020 Arsenic	Diss. Metals 6010/6020	9056 (Chloride, Fluoride, Sulfate), Alkalinity 2320B (Total, Bicarb, Carb)	TS 2540B, TDS 2540C	Ammonia 4500	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																									
1	GILL	WT	G			7/14/24	900		8	2	1	2	3					X	X	X		X	X	X		-001
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Nitrate is a short hold		7/15/24	145	Tyler Webb / Pace	7/15/24	1345	0.5	X	N	Y
See PM for metals Assessment List										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Max Bachtold

SIGNATURE of SAMPLER: DATE Signed: 7-15-24

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 2/15/24 1455 SMK

1. **Courier:** ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☒ No

(If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**

3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H

4. **Cooler Temperature(s):** See Comments

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☐ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? **Analysis:** Nitrate	✓	
Time 5035A TC placed in Freezer or Short Holds To Lab	Time: 1800	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		✓

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** Circle: **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	✓		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace Wisconsin Sulfide?			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details		✓	
Trip Blank Present?			
Trip Blank Custody Seals?:			

COMMENTS: 0.6/0.5, 3.3/3.2, 0.8/0.7, 0.6, 0.5, 1.4/1.3, 0.5/0.4, 2.7/2.6, 1.4/1.3, 2.5/2.4, 0.6/0.5

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER								
			MeOH (only)																											Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			SBS																											Red	Yellow	Green	Black
			DI			VOA																											
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																	2		1	1	1							WT	✓	✓		
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 31, 2024

Environmental Manager
Republic Services, Inc. - Wabash Valley Landfill
316 Spring Valley Road
Wabash, IN 46992

RE: Project: Wabash Valley Resamples
Pace Project No.: 50372982

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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 - Indianapolis

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

Sincerely,

Kenneth Hunt
kenneth.hunt@pacelabs.com
(317)228-3120
Project Manager

Enclosures

cc: Trihydro, Trihydro
Chad Tudor, Republic Services

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50372982001	**MW-3S**	Water	05/13/24 08:00	05/13/24 14:30
50372982002	**MW-16**	Water	05/13/24 08:00	05/13/24 14:30
50372982003	**MW-37**	Water	05/13/24 08:00	05/13/24 14:30

Pace Analytical Services, LLC
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(317)228-3100

SAMPLE ANALYTE COUNT

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50372982001	**MW-3S**	EPA 9056	KBB	1
50372982002	**MW-16**	EPA 9056	KBB	1
50372982003	**MW-37**	EPA 9056	KBB	1

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50372982001	**MW-3S**					
EPA 9056	Chloride	458	mg/L	25.0	05/24/24 05:06	
50372982002	**MW-16**					
EPA 9056	Chloride	307	mg/L	25.0	05/24/24 05:41	
50372982003	**MW-37**					
EPA 9056	Chloride	311	mg/L	25.0	05/24/24 06:33	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Sample: MW-3S **Lab ID: 50372982001** Collected: 05/13/24 08:00 Received: 05/13/24 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**458**	mg/L	25.0	100		05/24/24 05:06	16887-00-6	

Sample: MW-16 **Lab ID: 50372982002** Collected: 05/13/24 08:00 Received: 05/13/24 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**307**	mg/L	25.0	100		05/24/24 05:41	16887-00-6	

Sample: MW-37 **Lab ID: 50372982003** Collected: 05/13/24 08:00 Received: 05/13/24 14:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis							
Chloride	**311**	mg/L	25.0	100		05/24/24 06:33	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Wabash Valley Resamples
Pace Project No.: 50372982

QC Batch: 791634
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50372982001, 50372982002, 50372982003

METHOD BLANK: 3622402 Matrix: Water
Associated Lab Samples: 50372982001, 50372982002, 50372982003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/23/24 17:54	

LABORATORY CONTROL SAMPLE: 3622403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3622404 3622405

Parameter	Units	50372949001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.3	25	25	69.0	69.3	99	100	80-120	0	15	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Wabash Valley Resamples
Pace Project No.: 50372982

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.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wabash Valley Resamples
Pace Project No.: 50372982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50372982001	**MW-3S**	EPA 9056	791634		
50372982002	**MW-16**	EPA 9056	791634		
50372982003	**MW-37**	EPA 9056	791634		

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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

WO# : 50372982

50372982

Company Name:	Republic Services - Indiana Landfills	Contact/Report To:	Environmental Manager
Street Address:	316 Spring Valley Road, Wabash, IN 46992	Phone #:	
		E-Mail:	
		Cc E-Mail:	
Customer Project #:			
Project Name:	Wabash Valley Resamples	Invoice To:	Accounts Payable
		Invoice E-Mail:	oracle.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	31478749
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Indiana

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 10 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	Chloride by 9056
MW-3S	WT				51324					X
MW-16	WT				"					X
~~Duplicate~~ MW-37	WT				"					X

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Kenneth Hunt**
AcctNum / Client ID:
Table #:
Profile / Template: **5235-3**
Prelog / Bottle Ord. ID: **EZ 3108487**

Sample Comment

001
002
003

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:

Collected By: (Printed Name) Ryan Tesch
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	G	0	0.7	0.7	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Ryan Tesch	5/13/24 230	Chelsea B	5/13/24 230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [✓] In-Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

F-IN-Q-290-rev.26, 30Apr2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: CB 5/13/24 16:50

1. **Courier:** ☐FED EX | UPS ☑CLIENT ☐PACE ☐NOW/JETT | OTHER _____
2. **Custody Seal on Cooler/Box Present:** | | Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** (Initial/Corrected) 0.7|0.7 — RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** | |Bubble Wrap | | Bubble Bags | |None | | Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** | |Yes ☐No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** |✓ Yes | |No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	**Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	✓	Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																												WT				
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

APPENDIX 2

FIELD DATA SHEETS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-A4

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 8:00 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 697.21

BOTTOM DEPTH (HISTORICAL) 19.1

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 11.32

DATE: 2/12/2024 TIME 1:35 PM

WATER ELEVATION: 685.89

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 22.04

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 1.75 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 757 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.4

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 6

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.6	7	1010	-6	1.89	24

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-1

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Up

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 771.54

BOTTOM DEPTH (HISTORICAL) 43.5

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): 4

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 24.23

DATE: 2/12/2024 TIME 4:15 PM

WATER ELEVATION: 747.31

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): 12.57 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-2R

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 4:10 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 693.36

BOTTOM DEPTH (HISTORICAL) 16.5

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 5.01

DATE: 2/12/2024 TIME 3:00 PM

WATER ELEVATION: 688.35

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 16.02

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.80 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 757 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.3

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.8	6.95	2017	67	1.61	8

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-3D

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 4:50 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 687.56

BOTTOM DEPTH (HISTORICAL) 30.9

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 14.61

DATE: 2/12/2024 TIME 2:40 PM

WATER ELEVATION: 672.95

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED): 30.91

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 2.66 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 0 ELAPSED TIME (MIN): 25 VOL PURGED (GAL): 0

WELL EVACUATED? Y PURGE CONTAINED? WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? ODOR DESCRIPTION:

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	13.5	7.1	2402	4	0.91	10

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-3DR

GENERAL DATA

SAMPLE DATE 2/15/2024 SAMPLE TIME: 8:20 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 687.98

BOTTOM DEPTH (HISTORICAL) 55.5

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 23.86

DATE: 2/12/2024 TIME 2:42 PM

WATER ELEVATION: 664.12

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 55.92

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 5.23 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1430 ELAPSED TIME (MIN): 45 VOL PURGED (GAL): 17

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.3

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 1

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.1	7.01	2060	2	1.04	8

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-3S

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 4:33 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 688.53

BOTTOM DEPTH (HISTORICAL) 21.3

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 13.97

DATE: 2/12/2024 TIME 2:35 PM

WATER ELEVATION: 674.5601

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 21.21

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.18 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 946 ELAPSED TIME (MIN): 20 VOL PURGED (GAL): 5

WELL EVACUATED? Y PURGE CONTAINED? N WELL VOL PURGED: 4.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.5	6.8	4678	13	0.91	10

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-9RP

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 8:45 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 694.27

BOTTOM DEPTH (HISTORICAL) 36.29

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 17.33

DATE: 2/12/2024 TIME 1:50 PM

WATER ELEVATION: 676.94

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 34.93

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 2.87 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1136 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 9

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR BROWN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	15.6	7.43	481	21	3.61	8

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-9SRP

GENERAL DATA

SAMPLE DATE 2/15/2024 SAMPLE TIME: 11:20 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT:

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 693.82

BOTTOM DEPTH (HISTORICAL) 19.41

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 7.43

DATE: 2/12/2024 TIME 1:53 PM

WATER ELEVATION: 686.39

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 20.93

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 2.20 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 883 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 7

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 4

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.3	7.12	1067	6	2.1	25

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

-COMPLETED THE FIELD DUPLICATE, MW-31SRP
-COMPLETED THE MS/MSD

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-16

GENERAL DATA

SAMPLE DATE 2/15/2024 SAMPLE TIME: 9:10 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 689.81

BOTTOM DEPTH (HISTORICAL) 14.73

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 4.87

DATE: 2/12/2024 TIME 2:50 PM

WATER ELEVATION: 684.94

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 15.19

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.68 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 649 ELAPSED TIME (MIN): 35 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.6

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.9	7.2	4516	10	1.91	20

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-17

GENERAL DATA

SAMPLE DATE 2/15/2024 SAMPLE TIME: 9:50 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 692.65

BOTTOM DEPTH (HISTORICAL) 17.55

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 6

DATE: 2/12/2024 TIME 2:54 PM

WATER ELEVATION: 686.65

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 17.45

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.87 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 908 ELAPSED TIME (MIN): 25 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 3

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.1	7.31	1675	18	0.91	17

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-18

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 5:30 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 697.29

BOTTOM DEPTH (HISTORICAL) 28.5

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 14.91

DATE: 2/12/2024 TIME 1:56 PM

WATER ELEVATION: 682.38

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 26.18

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.84 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 757 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.3

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.1	7.1	1350	2	2.81	11

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-19D

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 10:20 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 685.73

BOTTOM DEPTH (HISTORICAL) 72.6

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 23.51

DATE: 2/14/2024 TIME 9:18 AM

WATER ELEVATION: 662.22

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 70.83

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 7.72 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 3028 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 24

WELL EVACUATED? Y PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.4	7.02	907	4	0.91	4

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-19S

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 10:40 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 684.78

BOTTOM DEPTH (HISTORICAL) 29.86

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 13.43

DATE: 2/14/2024 TIME 9:20 AM

WATER ELEVATION: 671.35

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 30.01

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 2.70 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1609 ELAPSED TIME (MIN): 20 VOL PURGED (GAL): 8.5

WELL EVACUATED? Y PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: Y FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	16.1	6.99	1505	2	0.98	7

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

-COMPLETED THE FIELD DUPLICATE, MW-119S
-COMPLETED THE MS/MSD

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-20

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 11:20 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 682.08

BOTTOM DEPTH (HISTORICAL) 29.35

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 10.75

DATE: 2/14/2024 TIME 9:24 AM

WATER ELEVATION: 671.33

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 29.5

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 3.06 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1438 ELAPSED TIME (MIN): 25 VOL PURGED (GAL): 9.5

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 3

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	19.9	6.86	1727	7	0.88	24

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-21

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 9:45 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 687.39

BOTTOM DEPTH (HISTORICAL) 27.37

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 15.39

DATE: 2/14/2024 TIME 9:15 AM

WATER ELEVATION: 672

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 27.81

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 2.03 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): ELAPSED TIME (MIN): VOL PURGED (GAL): 4.5

WELL EVACUATED? Y PURGE CONTAINED? N WELL VOL PURGED: 2.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11	7.15	1315	-8	2.57	4

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-24DAL

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 3:20 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 696.88

BOTTOM DEPTH (HISTORICAL) 36.5

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 21.75

DATE: 2/12/2024 TIME 1:40 PM

WATER ELEVATION: 675.13

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 36.6

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 2.42 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1211 ELAPSED TIME (MIN): 25. VOL PURGED (GAL): 8

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.3

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR BROWN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 4

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.1	7.2	1095	-10	3.01	16

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-24SAL

GENERAL DATA

SAMPLE DATE 2/15/2024 SAMPLE TIME: 10:40 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 55 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 696.48

BOTTOM DEPTH (HISTORICAL) 21.16

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 9.82

DATE: 2/12/2024 TIME 1:46 PM

WATER ELEVATION: 686.66

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 21.46

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 1.90 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 649 ELAPSED TIME (MIN): 35 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 8

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.9	7.05	1241	1	1.4	31

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-25DAL

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 1:45 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 696.93

BOTTOM DEPTH (HISTORICAL) 47.35

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 7.17

DATE: 2/12/2024 TIME 1:32 PM

WATER ELEVATION: 689.76

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 42.22

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 5.72 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 2271 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 18

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR BROWN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 1

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	13.5	7.08	867	41	2.11	14

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-25SAL

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 9:25 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 697.4

BOTTOM DEPTH (HISTORICAL) 22.68

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 8.88

DATE: 2/12/2024 TIME 1:32 PM

WATER ELEVATION: 688.52

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 21.22

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 2.01 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 757 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 6

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 4

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.3	7.01	1350	4	1.61	14

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-26SAL

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 2:35 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 702.16

BOTTOM DEPTH (HISTORICAL) 40.13

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 14.48

DATE: 2/12/2024 TIME 1:27 PM

WATER ELEVATION: 687.68

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 39.77

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 4.12 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1406 ELAPSED TIME (MIN): 35 VOL PURGED (GAL): 13

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.2

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	13.1	7.42	1090	-22	1.61	24

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

-COMPLETED THE FIELD DUPLICATE, MW-126SAL

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-27SAL

GENERAL DATA

SAMPLE DATE 2/13/2024 SAMPLE TIME: 4:05 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 704.52

BOTTOM DEPTH (HISTORICAL) 32.19

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 13.87

DATE: 2/12/2024 TIME 1:24 PM

WATER ELEVATION: 690.65

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 32.22

CASING MATERIAL: PVC

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): 2.99 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1136 ELAPSED TIME (MIN): 30 VOL PURGED (GAL): 9

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR TAN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 3

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.9	7.54	884	-32	2.91	10

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-111SAL

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 1:40 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 743.93

BOTTOM DEPTH (HISTORICAL) 48.67

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 18.4

DATE: 2/12/2024 TIME 1:12 PM

WATER ELEVATION: 725.53

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 49.15

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 5.02 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1419 ELAPSED TIME (MIN): 40 VOL PURGED (GAL): 15

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR TAN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 4

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.9	7.55	896	-32	1.94	21

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-113SALr

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Up

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 766.9

BOTTOM DEPTH (HISTORICAL) 51.3

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 33.47

DATE: 2/12/2024 TIME 1:00 PM

WATER ELEVATION: 733.4301

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): 2.91 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-3

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: 9:45 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM:

DATUM ELEVATION (Ft MSL)

BOTTOM DEPTH (HISTORICAL)

CASING DIAMETER (IN.):

SCREEN DIAMETER (IN):

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH:

DATE: TIME

WATER ELEVATION:

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED):

CASING MATERIAL:

SCREEN MATERIAL:

WATER VOLUME IN WELL (GAL): (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): ELAPSED TIME (MIN): VOL PURGED (GAL): 0

WELL EVACUATED? PURGE CONTAINED? WELL VOL PURGED:

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: Sample Port

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: Y FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR YELLOWISH RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? Y ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	11.9	6.78	35041	81	2.9	490

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

Rxn with VOCs

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-4

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM: _____

DATUM ELEVATION (Ft MSL) _____

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: _____ TIME _____

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

-NO SAMPLE

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-5

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: 10:20 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM:

DATUM ELEVATION (Ft MSL)

BOTTOM DEPTH (HISTORICAL)

CASING DIAMETER (IN.):

SCREEN DIAMETER (IN):

WATER VOLUME IN WELL (GAL): (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH:

DATE: TIME

WATER ELEVATION:

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED):

CASING MATERIAL:

SCREEN MATERIAL:

PURGING DATA

PURGING METHOD:

PURGE EQUIPMENT DEDICATED?

RECHARGE RATE:

PURGING RATE (ML/MIN): ELAPSED TIME (MIN): VOL PURGED (GAL): 0

WELL EVACUATED? PURGE CONTAINED? WELL VOL PURGED:

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☐ BAILER BAILER DEDICATED? DIAMETER: CORD MATERIAL:

OTHER METHOD: Sample Port

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR BROWN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 1

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	16.1	6.91	9040	12	2.12	190

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-6

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM: _____

DATUM ELEVATION (Ft MSL) _____

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: _____ TIME _____

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

-NO SAMPLE

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-7

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM: _____

DATUM ELEVATION (Ft MSL) _____

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: _____ TIME _____

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

-NO SAMPLE

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-9

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: 12:10 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM:

DATUM ELEVATION (Ft MSL)

BOTTOM DEPTH (HISTORICAL)

CASING DIAMETER (IN.):

SCREEN DIAMETER (IN):

WATER VOLUME IN WELL (GAL): (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH:

DATE: TIME

WATER ELEVATION:

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED):

CASING MATERIAL:

SCREEN MATERIAL:

PURGING DATA

PURGING METHOD:

PURGE EQUIPMENT DEDICATED?

RECHARGE RATE:

PURGING RATE (ML/MIN): ELAPSED TIME (MIN): VOL PURGED (GAL): 0

WELL EVACUATED? PURGE CONTAINED? WELL VOL PURGED:

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☐ BAILER BAILER DEDICATED? DIAMETER: CORD MATERIAL:

OTHER METHOD: Sample Port

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	14.1	6.79	2965	13	1.16	51

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-8

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: Down

DATUM: _____

DATUM ELEVATION (Ft MSL) _____

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: _____ TIME _____

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

-NO SAMPLE

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: WZ-11B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM OTHER

LOCATION DATA

GRADIENT: _____ CHECK IF WATER LEVEL NOT DETECTED ☑

DATUM: _____ STATIC WATER DEPTH: _____

DATE: _____ TIME _____

DATUM ELEVATION (Ft MSL) _____ WATER ELEVATION: _____

BOTTOM DEPTH (HISTORICAL) _____ BOTTOM HARDNESS: _____

CASING DIAMETER (IN.): _____ BOTTOM DEPTH(MEASURED): _____

SCREEN DIAMETER (IN): _____ CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

-NO SAMPLE

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: Residential Well - Gill

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 9:00 AM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM:

DATUM ELEVATION (Ft MSL)

BOTTOM DEPTH (HISTORICAL)

CASING DIAMETER (IN.):

SCREEN DIAMETER (IN):

WATER VOLUME IN WELL (GAL): (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH:

DATE: TIME

WATER ELEVATION:

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED):

CASING MATERIAL:

SCREEN MATERIAL:

PURGING DATA

PURGING METHOD:

PURGE EQUIPMENT DEDICATED?

RECHARGE RATE:

PURGING RATE (ML/MIN): ELAPSED TIME (MIN): VOL PURGED (GAL): 0

WELL EVACUATED? PURGE CONTAINED? WELL VOL PURGED:

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☐ BAILER BAILER DEDICATED? DIAMETER: CORD MATERIAL:

OTHER METHOD: Outside Faucet

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	10.9	7.12	1240	7	2.73	8

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: SP-1

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 2:35 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Up

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 771.87

BOTTOM DEPTH (HISTORICAL) 59.11

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 37.47

DATE: 2/12/2024 TIME 1:03 PM

WATER ELEVATION: 734.4

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 58.9

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 3.50 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1041 ELAPSED TIME (MIN): 40 VOL PURGED (GAL): 11

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.1

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR TAN RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.7	7.25	1495	-10	1.41	12

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: SP-2

GENERAL DATA

SAMPLE DATE 2/14/2024 SAMPLE TIME: 3:25 PM SAMPLE TYPE: SEMI-ANNUAL GWS

WEATHER: P. Cloudy AIR TEMPERATURE: 50 SAMPLERS: RF

SAMPLE MEDIUM GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 773.35

BOTTOM DEPTH (HISTORICAL) 49.75

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 23.58

DATE: 2/12/2024 TIME 4:00 PM

WATER ELEVATION: 749.77

BOTTOM HARDNESS: HARD

BOTTOM DEPTH(MEASURED): 49.6

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 4.24 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE: FAST

PURGING RATE (ML/MIN): 1419 ELAPSED TIME (MIN): 40 VOL PURGED (GAL): 15

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 3.5

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☑ BAILER BAILER DEDICATED? N DIAMETER: 1/8" CORD MATERIAL: NYLON

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): SEE CHAIN OF CUSTODY

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: DISSOLVED METALS

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR CLEAR RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 0

CONTAINS IMMISCIBLE LIQUID? N

REMARKS: _____

ODOR:? N ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º C)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:	12.4	6.8	1460	-12	1.74	8

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE YSI PRO PLUS

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: P-1

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 686.98

BOTTOM DEPTH (HISTORICAL) 14.56

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: 2/12/2024 TIME 4:01 PM

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

DRY

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: P-2

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 688.19

BOTTOM DEPTH (HISTORICAL) 13.73

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: 2/12/2024 TIME 4:04 PM

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

DRY

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: P-3

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 689.38

BOTTOM DEPTH (HISTORICAL) 20.3

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 12.51

DATE: 2/12/2024 TIME 4:10 PM

WATER ELEVATION: 676.87

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-102SAL

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 704.932

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 2.89

DATE: 2/12/2024 TIME 1:15 PM

WATER ELEVATION: 702.042

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-103SAL

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 697.702

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 4.27

DATE: 2/12/2024 TIME 1:17 PM

WATER ELEVATION: 693.432

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-111B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 743.8

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 24.68

DATE: 2/12/2024 TIME 1:10 PM

WATER ELEVATION: 719.12

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-112SAL

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 707.188

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 8.54

DATE: 2/12/2024 TIME 1:19 PM

WATER ELEVATION: 698.648

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-115B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 762.297

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 21.52

DATE: 2/12/2024 TIME 1:06 PM

WATER ELEVATION: 740.777

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-116B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 704.1

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 6.46

DATE: 2/12/2024 TIME 1:21 PM

WATER ELEVATION: 697.64

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-116SAL

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 704.19

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): 0

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 5.81

DATE: 2/12/2024 TIME 1:20 PM

WATER ELEVATION: 698.38

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-118B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 763.939

BOTTOM DEPTH (HISTORICAL) 57.1

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 23.61

DATE: 2/12/2024 TIME 3:34 PM

WATER ELEVATION: 740.329

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): 5.46 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-119B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 760.82

BOTTOM DEPTH (HISTORICAL) 50.6

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 27.38

DATE: 2/12/2024 TIME 3:18 PM

WATER ELEVATION: 733.44

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): 3.79 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-120B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 743.36

BOTTOM DEPTH (HISTORICAL) 38.33

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 12.18

DATE: 2/12/2024 TIME 3:14 PM

WATER ELEVATION: 731.18

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): 4.27 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: PZ-121B

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 726.518

BOTTOM DEPTH (HISTORICAL) 24.2

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☑

STATIC WATER DEPTH: _____

DATE: 2/12/2024 TIME 3:10 PM

WATER ELEVATION: _____

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

OVERFLOWING

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: EW-1N

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 693.34

BOTTOM DEPTH (HISTORICAL) 26.6

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): 4

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 11.57

DATE: 2/12/2024 TIME 2:17 PM

WATER ELEVATION: 681.77

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 9.81 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: EW-2R

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 689.5

BOTTOM DEPTH (HISTORICAL) 23.56

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): 4

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 13.15

DATE: 2/12/2024 TIME 2:15 PM

WATER ELEVATION: 676.35

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 6.79 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: EW-3

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 688.16

BOTTOM DEPTH (HISTORICAL) 17

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 12.49

DATE: 2/12/2024 TIME 2:12 PM

WATER ELEVATION: 675.67

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: STAINLESS STEEL

WATER VOLUME IN WELL (GAL): 2.94 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: EW-4

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 688.69

BOTTOM DEPTH (HISTORICAL) 18

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 11.62

DATE: 2/12/2024 TIME 2:08 PM

WATER ELEVATION: 677.07

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: STAINLESS STEEL

WATER VOLUME IN WELL (GAL): 4.16 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: EW-5

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL) 690.92

BOTTOM DEPTH (HISTORICAL) 18

CASING DIAMETER (IN.): 4

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 14.33

DATE: 2/12/2024 TIME 2:05 PM

WATER ELEVATION: 676.59

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: PVC

SCREEN MATERIAL: STAINLESS STEEL

WATER VOLUME IN WELL (GAL): 2.39 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: SED POND 1 GAUGE

GENERAL DATA

SAMPLE DATE 2/12/2024 SAMPLE TIME: _____ SAMPLE TYPE: _____

WEATHER: _____ AIR TEMPERATURE: _____ SAMPLERS: _____

SAMPLE MEDIUM _____

LOCATION DATA

GRADIENT: _____

DATUM: OTHER

DATUM ELEVATION (Ft MSL) 683.59

BOTTOM DEPTH (HISTORICAL) _____

CASING DIAMETER (IN.): _____

SCREEN DIAMETER (IN): _____

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 1.78

DATE: 2/12/2024 TIME 2:20 PM

WATER ELEVATION: 681.81

BOTTOM HARDNESS: _____

BOTTOM DEPTH(MEASURED): _____

CASING MATERIAL: _____

SCREEN MATERIAL: _____

WATER VOLUME IN WELL (GAL): _____ (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY _____

PURGING DATA

PURGING METHOD: _____

PURGE EQUIPMENT DEDICATED? _____

RECHARGE RATE: _____

PURGING RATE (ML/MIN): _____ ELAPSED TIME (MIN): _____ VOL PURGED (GAL): 0

WELL EVACUATED? _____ PURGE CONTAINED? _____ WELL VOL PURGED: _____

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? _____ PUMP TYPE: _____

☐ BAILER BAILER DEDICATED? _____ DIAMETER: _____ CORD MATERIAL: _____

OTHER METHOD: _____

POST PURGE WATER DEPTH: _____ _____

CONTAINERS (NUMBER/TYPE): _____

REACTION TO PRESERVATIVE: _____ FIELD FILTERED SAMPLES: _____

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR _____ RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): _____

CONTAINS IMMISCIBLE LIQUID? _____

REMARKS: _____

ODOR:? _____ ODOR DESCRIPTION: _____

FIELD TESTS

	Temp (º)	pH (SU)	SC (Umhos/cm)	Eh (Mvolts)	DO (mg/l)	Turbidity (NTU)
1:						
2:						
3:						

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE _____

REMARKS

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-16

GENERAL DATA

SAMPLE DATE: 5/13/2024 SAMPLE TIME: 11:05 AM SAMPLE TYPE: VERIFICATION

WEATHER: AIR TEMPERATURE: SAMPLERS: RF

SAMPLE MEDIUM:

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL): 689.81

BOTTOM DEPTH (HISTORICAL): 14.73

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 5.05

DATE: 5/13/2024 TIME 10:40 AM

WATER ELEVATION: 684.76

BOTTOM HARDNESS: SOFT

BOTTOM DEPTH(MEASURED): 14.97

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.62 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY

PURGING DATA

PURGING METHOD: BAILER

PURGE EQUIPMENT DEDICATED? N

RECHARGE RATE:

PURGING RATE: ELAPSED TIME: VOL PURGED (GAL): 0

WELL EVACUATED? N PURGE CONTAINED? N WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: CORD MATERIAL:

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE):

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: NONE

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 4

CONTAINS IMMISCIBLE LIQUID? N

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

TEMP 1:	º	pH 1	SU	SC 1	Umhos/cm	Eh 1:	Mvolts	DO 1:	Mg/l
TEMP 2:	º	pH 2	SU	SC 2	Umhos/cm	Eh 2	Mvolts	DO 2	Mg/l
TEMP 3:	17.1 º	pH 3	7.13 SU	SC 3	2230 Umhos/cm	Eh 3	24 Mvolts	DO 3	3.4 Mg/l

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE

REMARKS

Duplicate collected, MW-37

WATER QUALITY SAMPLING FIELD DATA

SITE: Wabash Valley LF LOCATION ID: MW-3S

GENERAL DATA

SAMPLE DATE: 5/13/2024 SAMPLE TIME: 11:45 AM SAMPLE TYPE: VERIFICATION

WEATHER: AIR TEMPERATURE: SAMPLERS: RF

SAMPLE MEDIUM: GROUND WATER

LOCATION DATA

GRADIENT: Down

DATUM: WELL CASING

DATUM ELEVATION (Ft MSL): 688.53

BOTTOM DEPTH (HISTORICAL): 21.3

CASING DIAMETER (IN.): 2

SCREEN DIAMETER (IN): 2

CHECK IF WATER LEVEL NOT DETECTED ☐

STATIC WATER DEPTH: 14.04

DATE: 5/13/2024 TIME 11:20 AM

WATER ELEVATION: 674.4901

BOTTOM HARDNESS:

BOTTOM DEPTH(MEASURED): 21.22

CASING MATERIAL: PVC

SCREEN MATERIAL: PVC

WATER VOLUME IN WELL (GAL): 1.17 (2-in. well: 0.163 gal/ft of depth; 4-in. well: 0.653 gal/ft of depth)

CONDITION OF WELL AND SECURITY EXCELLENT

PURGING DATA

PURGING METHOD:

PURGE EQUIPMENT DEDICATED?

RECHARGE RATE:

PURGING RATE: ELAPSED TIME: VOL PURGED (GAL): 0

WELL EVACUATED? PURGE CONTAINED? Y WELL VOL PURGED: 0.0

SAMPLING DATA

SAMPLING METHOD ☐ PUMP PUMP DEDICATED? PUMP TYPE:

☑ BAILER BAILER DEDICATED? N DIAMETER: CORD MATERIAL:

OTHER METHOD:

POST PURGE WATER DEPTH:

CONTAINERS (NUMBER/TYPE):

REACTION TO PRESERVATIVE: N FIELD FILTERED SAMPLES: NONE

PHYSICAL/CHEMICAL DATA

APPEARANCE COLOR ORANGE RELATIVE TURBIDITY (CLEAR=0, OPAQUE=10): 2

CONTAINS IMMISCIBLE LIQUID?

REMARKS:

ODOR:? N ODOR DESCRIPTION:

FIELD TESTS

TEMP 1:	º	pH 1	SU	SC 1	Umhos/cm	Eh 1:	Mvolts	DO 1:	Mg/l
TEMP 2:	º	pH 2	SU	SC 2	Umhos/cm	Eh 2	Mvolts	DO 2	Mg/l
TEMP 3:	15.3 º	pH 3	6.9 SU	SC 3	2990 Umhos/cm	Eh 3	14 Mvolts	DO 3	3.04 Mg/l

FIELD CALIBRATIONS STANDARDS: (SOURCE/TYPE

REMARKS

APPENDIX 3

WEST AREA DETECTION/ ASSESSMENT
WELL STATISTICAL OUTPUT

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
1,4-Dichlorobenzene (ug/L)	MW-16	0	0	117	No	31	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	**MW-17**	**0**	**-131**	**-117**	**Yes**	**31**	**61.29**	**n/a**	**n/a**	**0.05**	**NP**
1,4-Dichlorobenzene (ug/L)	MW-18	0	0	106	No	29	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-2R	0	-24	-117	No	31	93.55	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-3D	0	0	117	No	31	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-3DR	0	0	117	No	31	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-3S	0	0	117	No	31	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	MW-16	-0.08019	-60	-117	No	31	0	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	**MW-17**	**-1.715**	**-238**	**-117**	**Yes**	**31**	**6.452**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	**MW-18**	**-0.07961**	**-343**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	MW-2R	-0.00...	-26	-117	No	31	3.226	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	**MW-3D**	**0.6028**	**191**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	**MW-3DR**	**0.8481**	**281**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	**MW-3S**	**1.568**	**230**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	**SP-1 (bg)**	**-0.01816**	**-80**	**-71**	**Yes**	**22**	**13.64**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	SP-2 (bg)	-0.01926	-20	-71	No	22	4.545	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-18	0	-16	-66	No	21	95.24	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	SP-1 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	SP-2 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	**MW-16**	**-17.18**	**-104**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic-Total (ug/L)	**MW-17**	**-6.57**	**-338**	**-128**	**Yes**	**33**	**12.12**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic-Total (ug/L)	MW-18	0.448	17	123	No	32	0	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	MW-2R	1.194	11	71	No	22	0	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	MW-3D	2.669	10	71	No	22	0	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	**MW-3DR**	**5.866**	**127**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic-Total (ug/L)	SP-1 (bg)	-0.3536	-67	-71	No	22	9.091	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	**SP-2 (bg)**	**0**	**81**	**71**	**Yes**	**22**	**68.18**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-16**	**-32.39**	**-80**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-17**	**-29.47**	**-256**	**-128**	**Yes**	**33**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-18**	**-25.49**	**-273**	**-123**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	MW-2R	-4.613	-39	-71	No	22	0	n/a	n/a	0.05	NP
Barium [Total] (ug/L)	MW-3D	25.62	56	71	No	22	0	n/a	n/a	0.05	NP
Barium [Total] (ug/L)	**MW-3DR**	**65.55**	**129**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**SP-1 (bg)**	**-10.17**	**-115**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**SP-2 (bg)**	**-6.012**	**-79**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Benzene (ug/L)	**MW-16**	**-0.3489**	**-288**	**-117**	**Yes**	**31**	**48.39**	**n/a**	**n/a**	**0.05**	**NP**
Benzene (ug/L)	**MW-17**	**-0.6448**	**-260**	**-117**	**Yes**	**31**	**32.26**	**n/a**	**n/a**	**0.05**	**NP**
Benzene (ug/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-2R	0	-116	-117	No	31	83.87	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-3D	0	-107	-117	No	31	87.1	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-3DR	0	-20	-117	No	31	96.77	n/a	n/a	0.05	NP
Benzene (ug/L)	**MW-3S**	**-0.2591**	**-270**	**-117**	**Yes**	**31**	**45.16**	**n/a**	**n/a**	**0.05**	**NP**
Benzene (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Benzene (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-3D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-16	0	-4	-53	No	18	77.78	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-18	0	-25	-66	No	21	85.71	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-2R	0	-19	-53	No	18	61.11	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	SP-1 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	SP-2 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP
Chloride (mg/L)	**MW-16**	**5.524**	**228**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	**MW-17**	**-6.685**	**-226**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	**MW-18**	**1.628**	**171**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	MW-2R	-0.167	-11	-117	No	31	0	n/a	n/a	0.05	NP
Chloride (mg/L)	**MW-3D**	**7.148**	**201**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	**MW-3DR**	**9.571**	**278**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	**MW-3S**	**8.495**	**235**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	**SP-1 (bg)**	**-3.474**	**-109**	**-71**	**Yes**	**22**	**4.545**	**n/a**	**n/a**	**0.05**	**NP**
Chloride (mg/L)	SP-2 (bg)	3.355	50	71	No	22	0	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	**MW-16**	**-0.1002**	**-183**	**-117**	**Yes**	**31**	**32.26**	**n/a**	**n/a**	**0.05**	**NP**
Chlorobenzene (ug/L)	**MW-17**	**-0.1678**	**-206**	**-117**	**Yes**	**31**	**38.71**	**n/a**	**n/a**	**0.05**	**NP**
Chlorobenzene (ug/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	MW-2R	0	-91	-117	No	31	51.61	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	MW-3D	0.1109	104	117	No	31	6.452	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	**MW-3DR**	**0.03995**	**153**	**117**	**Yes**	**31**	**51.61**	**n/a**	**n/a**	**0.05**	**NP**
Chlorobenzene (ug/L)	MW-3S	-0.00...	-14	-117	No	31	0	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-16	0	-23	-53	No	18	72.22	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	**MW-18**	**-1.653**	**-239**	**-123**	**Yes**	**32**	**21.88**	**n/a**	**n/a**	**0.05**	**NP**
Chromium [Total] (ug/L)	MW-2R	0	-26	-53	No	18	55.56	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	SP-1 (bg)	0	-40	-71	No	22	90.91	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-16	0	-18	-53	No	18	77.78	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	**MW-18**	**-0.2374**	**-205**	**-123**	**Yes**	**32**	**46.88**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt [Total] (ug/L)	MW-2R	0	-16	-53	No	18	83.33	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-16	0	-12	-53	No	18	61.11	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Copper [Total] (ug/L)	MW-17	0	-24	-96	No	27	74.07	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	**MW-18**	**-1.989**	**-219**	**-123**	**Yes**	**32**	**31.25**	**n/a**	**n/a**	**0.05**	**NP**
Copper [Total] (ug/L)	MW-2R	0	-22	-53	No	18	55.56	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-3DR	0	0	10	No	5	100	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	SP-1 (bg)	0	-15	-71	No	22	90.91	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-17	0	0	12	No	6	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-18	0	-31	-123	No	32	96.88	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-3DR	0	-54	-71	No	22	86.36	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	SP-1 (bg)	0	-19	-71	No	22	95.45	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Arsenic (mg/L)	**MW-16**	**-0.01059**	**-216**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**MW-17**	**-0.00...**	**-357**	**-117**	**Yes**	**31**	**22.58**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**MW-18**	**0.000...**	**201**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	MW-2R	0.001286	41	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Arsenic (mg/L)	MW-3D	0.001432	36	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Arsenic (mg/L)	**MW-3DR**	**0.003751**	**251**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**MW-3S**	**0.006097**	**199**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**SP-1 (bg)**	**-0.00...**	**-113**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**SP-2 (bg)**	**0.000...**	**90**	**71**	**Yes**	**22**	**9.091**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	MW-16	-0.01741	-68	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Barium (mg/L)	**MW-17**	**-0.02832**	**-239**	**-128**	**Yes**	**33**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	**MW-18**	**-0.01519**	**-262**	**-123**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	MW-2R	-0.00...	-32	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Barium (mg/L)	**MW-3D**	**0.02655**	**76**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	**MW-3DR**	**0.07171**	**135**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	SP-1 (bg)	-0.00...	-53	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Barium (mg/L)	SP-2 (bg)	-0.00...	-44	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Beryllium (ug/L)	MW-16	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-17	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-18	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-2R	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-3D	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-3DR	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Cadmium (mg/L)	MW-16	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-17	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-2R	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-3D	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-3DR	0	0	117	No	31	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Cadmium (mg/L)	MW-3S	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	MW-16	0	-13	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	MW-17	0	14	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	**MW-18**	**-0.587**	**-127**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Calcium (mg/L)	MW-2R	-1.253	-63	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	MW-3D	-0.1537	-43	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	**MW-3DR**	**2.183**	**207**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Calcium (mg/L)	MW-3S	-0.4446	-84	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	**SP-1 (bg)**	**-1.606**	**-132**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Calcium (mg/L)	**SP-2 (bg)**	**-4.95**	**-121**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Chromium (mg/L)	MW-16	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-17	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-2R	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-3D	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-3DR	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-3S	0	0	117	No	31	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	MW-16	-0.00...	-19	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	**MW-17**	**-0.00...**	**-149**	**-128**	**Yes**	**33**	**21.21**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	**MW-18**	**-0.00...**	**-206**	**-123**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	**MW-2R**	**-0.00...**	**-159**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	**MW-3D**	**-0.00...**	**-73**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	MW-3DR	0.000...	3	8	No	4	75	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-16	0.000...	111	117	No	31	9.677	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-17	0.000...	109	117	No	31	25.81	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-18	0	-27	-117	No	31	32.26	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-2R	0.000...	23	117	No	31	9.677	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-3D	0.000...	52	117	No	31	3.226	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-3DR	0	-4	-117	No	31	29.03	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-3S	-0.00...	-97	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	SP-1 (bg)	-0.00...	-42	-71	No	22	18.18	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	SP-2 (bg)	0	-2	-71	No	22	13.64	n/a	n/a	0.05	NP
Dissolved Iron (mg/L)	**MW-16**	**-1.669**	**-264**	**-117**	**Yes**	**31**	**3.226**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**MW-17**	**-2.333**	**-313**	**-117**	**Yes**	**31**	**16.13**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**MW-18**	**0.1002**	**139**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	MW-2R	-0.1724	-67	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Iron (mg/L)	MW-3D	0.2409	59	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Iron (mg/L)	**MW-3DR**	**0.462**	**235**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**MW-3S**	**0.9181**	**209**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**SP-1 (bg)**	**-0.129**	**-72**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	SP-2 (bg)	-0.1564	-62	-71	No	22	4.545	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Lead (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	SP-1 (bg)	0	-21	-71	No	22	90.91	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	MW-16	0	37	71	No	22	77.27	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	**MW-17**	**-0.00...**	**-200**	**-96**	**Yes**	**27**	**59.26**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Lithium (mg/L)	**MW-18**	**-0.00...**	**-126**	**-123**	**Yes**	**32**	**6.25**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Lithium (mg/L)	MW-2R	0	-21	-71	No	22	90.91	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	MW-3D	-0.00...	-19	-71	No	22	4.545	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	**MW-3DR**	**-0.00...**	**-85**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Lithium (mg/L)	SP-1 (bg)	-0.00...	-27	-71	No	22	4.545	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	SP-2 (bg)	-0.00...	-20	-71	No	22	9.091	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	MW-16	-0.231	-54	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	**MW-17**	**-1.604**	**-244**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Magnesium (mg/L)	**MW-18**	**-0.198**	**-138**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Magnesium (mg/L)	MW-2R	0.07237	10	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	MW-3D	0.272	75	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	**MW-3DR**	**1.471**	**238**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Magnesium (mg/L)	MW-3S	0.3594	91	117	No	31	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	**SP-1 (bg)**	**-0.6618**	**-126**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Magnesium (mg/L)	**SP-2 (bg)**	**-2.965**	**-142**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-16**	**0.06511**	**245**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-17**	**0.0508**	**144**	**117**	**Yes**	**31**	**3.226**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-18**	**-0.01652**	**-349**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-2R**	**-0.141**	**-291**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-3D**	**-0.01085**	**-361**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-3DR**	**0.00625**	**238**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-3S**	**-0.01068**	**-202**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**SP-1 (bg)**	**-0.00258**	**-126**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**SP-2 (bg)**	**0.01053**	**97**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Mercury (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-17	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	MW-16	0.000...	24	71	No	22	0	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	MW-17	-0.00...	-102	-128	No	33	0	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	**MW-18**	**-0.00...**	**-316**	**-123**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Nickel (mg/L)	MW-2R	-0.00...	-35	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	**MW-3D**	**0.000...**	**104**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Nickel (mg/L)	**MW-3DR**	**0.000...**	**107**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Nickel (mg/L)	SP-1 (bg)	0	-14	-71	No	22	77.27	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	SP-2 (bg)	0	-55	-71	No	22	50	n/a	n/a	0.05	NP
Dissolved Potassium (mg/L)	**MW-16**	**1.781**	**260**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	**MW-17**	**-2.002**	**-257**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	**MW-18**	**-0.7395**	**-417**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Potassium (mg/L)	**MW-2R**	**-0.06333**	**-144**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	MW-3D	-0.33	-56	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Potassium (mg/L)	**MW-3DR**	**0.6588**	**175**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	MW-3S	-0.8686	-83	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Potassium (mg/L)	**SP-1 (bg)**	**-0.0541**	**-103**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	SP-2 (bg)	-0.1306	-65	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-16	0	-14	-49	No	17	94.12	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-3D	0	-15	-53	No	18	94.44	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	SP-2 (bg)	0	-9	-71	No	22	95.45	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Sodium (mg/L)	**MW-16**	**2.289**	**148**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	**MW-17**	**-4.171**	**-211**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	MW-18	-0.3324	-75	-117	No	31	0	n/a	n/a	0.05	NP
Dissolved Sodium (mg/L)	**MW-2R**	**-1.141**	**-138**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	**MW-3D**	**3.117**	**163**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	**MW-3DR**	**5.155**	**247**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	**MW-3S**	**2.471**	**125**	**117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	SP-1 (bg)	0.2368	48	71	No	22	0	n/a	n/a	0.05	NP
Dissolved Sodium (mg/L)	SP-2 (bg)	-0.2004	-1	-71	No	22	0	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-16	0	-20	-66	No	21	95.24	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-17	0	-18	-66	No	21	95.24	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-2R	0	-21	-71	No	22	95.45	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Vanadium (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-16	0	-10	-49	No	17	70.59	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-17	0	-71	-90	No	26	65.38	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	**MW-18**	**0**	**-130**	**-123**	**Yes**	**32**	**56.25**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Zinc (mg/L)	MW-2R	0	-49	-71	No	22	77.27	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-3D	0	3	49	No	17	88.24	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	**SP-1 (bg)**	**0**	**-82**	**-71**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Zinc (mg/L)	**SP-2 (bg)**	**0**	**-75**	**-71**	**Yes**	**22**	**77.27**	**n/a**	**n/a**	**0.05**	**NP**
Fluoride (mg/L)	MW-16	0.003616	31	71	No	22	9.091	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-17	-0.00...	-89	-123	No	32	31.25	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-18	0	-4	-123	No	32	3.125	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-2R	0	14	71	No	22	13.64	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-3D	0	-8	-71	No	22	13.64	n/a	n/a	0.05	NP
Fluoride (mg/L)	**MW-3DR**	**-0.02124**	**-74**	**-71**	**Yes**	**22**	**4.545**	**n/a**	**n/a**	**0.05**	**NP**
Fluoride (mg/L)	SP-1 (bg)	0.005305	54	71	No	22	4.545	n/a	n/a	0.05	NP
Fluoride (mg/L)	**SP-2 (bg)**	**0.01427**	**90**	**71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lead [Total] (ug/L)	MW-16	0	-27	-53	No	18	66.67	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	**MW-17**	**-0.7089**	**-130**	**-96**	**Yes**	**27**	**37.04**	**n/a**	**n/a**	**0.05**	**NP**
Lead [Total] (ug/L)	**MW-18**	**-2.317**	**-251**	**-123**	**Yes**	**32**	**18.75**	**n/a**	**n/a**	**0.05**	**NP**
Lead [Total] (ug/L)	MW-2R	0	-21	-53	No	18	38.89	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	MW-3DR	0	-24	-53	No	18	83.33	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	SP-1 (bg)	0	-41	-71	No	22	90.91	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Lithium [Total] (ug/L)	MW-16	-0.3006	-30	-71	No	22	22.73	n/a	n/a	0.05	NP
Lithium [Total] (ug/L)	**MW-17**	**-0.9392**	**-210**	**-96**	**Yes**	**27**	**51.85**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	**MW-18**	**-2.192**	**-228**	**-123**	**Yes**	**32**	**3.125**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	**MW-2R**	**-0.9435**	**-107**	**-71**	**Yes**	**22**	**31.82**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	MW-3D	-0.07961	-12	-71	No	22	0	n/a	n/a	0.05	NP
Lithium [Total] (ug/L)	**MW-3DR**	**-1.39**	**-90**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	**SP-1 (bg)**	**-1.025**	**-88**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	SP-2 (bg)	-0.8818	-69	-71	No	22	4.545	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-18	0	-1	-90	No	26	92.31	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-2R	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-3DR	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Nickel [Total] (ug/L)	MW-16	-1.349	-36	-71	No	22	4.545	n/a	n/a	0.05	NP
Nickel [Total] (ug/L)	**MW-17**	**-0.501**	**-194**	**-128**	**Yes**	**33**	**33.33**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	**MW-18**	**-4.362**	**-244**	**-123**	**Yes**	**32**	**6.25**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	**MW-2R**	**-1.316**	**-79**	**-71**	**Yes**	**22**	**18.18**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	MW-3D	0.1738	36	71	No	22	0	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Nickel [Total] (ug/L)	MW-3DR	0.3574	3	8	No	4	75	n/a	n/a	0.05	NP
Nickel [Total] (ug/L)	**SP-1 (bg)**	**0**	**-72**	**-71**	**Yes**	**22**	**81.82**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-16	0	5	12	No	6	66.67	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-17	0.09048	26	27	No	11	45.45	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-3D	0.000...	66	71	No	22	50	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	**SP-1 (bg)**	**0**	**81**	**71**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.05**	**NP**
Nitrate [as N] (mg/L)	SP-2 (bg)	0	48	71	No	22	86.36	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-16	0	0	27	No	11	90.91	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-3D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	SP-1 (bg)	0	0	17	No	8	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	SP-2 (bg)	0	0	17	No	8	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Sulfate (mg/L)	**MW-16**	**4.91**	**160**	**117**	**Yes**	**31**	**3.226**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-17**	**2.399**	**231**	**117**	**Yes**	**31**	**25.81**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-18**	**-0.7078**	**-211**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	MW-2R	-1.254	-83	-117	No	31	0	n/a	n/a	0.05	NP
Sulfate (mg/L)	**MW-3D**	**-0.4001**	**-188**	**-117**	**Yes**	**31**	**19.35**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-3DR**	**-0.492**	**-145**	**-117**	**Yes**	**31**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-3S**	**-0.4508**	**-256**	**-117**	**Yes**	**31**	**16.13**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**SP-1 (bg)**	**-0.759**	**-84**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**SP-2 (bg)**	**-11.02**	**-149**	**-71**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfide (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-17	0	0	12	No	6	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-3D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-17	0	0	8	No	4	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-18	0	0	12	No	6	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-2R	0	0	8	No	4	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 11:21 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Tin [Total] (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-16	0	-28	-117	No	31	96.77	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-17	0	0	117	No	31	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-2R	0	9	117	No	31	90.32	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-3D	0	0	117	No	31	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-3DR	0	0	117	No	31	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-3S	0	-28	-117	No	31	96.77	n/a	n/a	0.05	NP
Toluene (ug/L)	SP-1 (bg)	0	0	76	No	23	100	n/a	n/a	0.05	NP
Toluene (ug/L)	SP-2 (bg)	0	0	76	No	23	100	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-16	0	0	8	No	4	100	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-17	0	-96	-96	No	27	62.96	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-18	0	-42	-117	No	31	74.19	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-2R	0	-49	-71	No	22	77.27	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-3DR	0	-16	-53	No	18	77.78	n/a	n/a	0.05	NP
Total phenolics (mg/L)	SP-1 (bg)	0	5	71	No	22	90.91	n/a	n/a	0.05	NP
Total phenolics (mg/L)	SP-2 (bg)	0	5	71	No	22	86.36	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-16	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-17	0	-8	-117	No	31	93.55	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-18	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-2R	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-3D	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-3DR	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-3S	0	0	117	No	31	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	SP-1 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-16	0	-23	-53	No	18	72.22	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-17	0	0	10	No	5	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	**MW-18**	**-1.193**	**-263**	**-123**	**Yes**	**32**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Vanadium [Total] (ug/L)	MW-2R	0	-21	-53	No	18	72.22	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	SP-1 (bg)	0	-60	-71	No	22	86.36	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-16	0	-27	-53	No	18	50	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	**MW-17**	**-0.2308**	**-139**	**-96**	**Yes**	**27**	**59.26**	**n/a**	**n/a**	**0.05**	**NP**
Zinc [Total] (ug/L)	**MW-18**	**-7.257**	**-249**	**-123**	**Yes**	**32**	**18.75**	**n/a**	**n/a**	**0.05**	**NP**
Zinc [Total] (ug/L)	MW-2R	0	-23	-53	No	18	44.44	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-3D	0	0	8	No	4	100	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-3DR	0	0	8	No	4	100	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	**SP-1 (bg)**	**0**	**-95**	**-71**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.05**	**NP**
Zinc [Total] (ug/L)	SP-2 (bg)	0	0	71	No	22	100	n/a	n/a	0.05	NP

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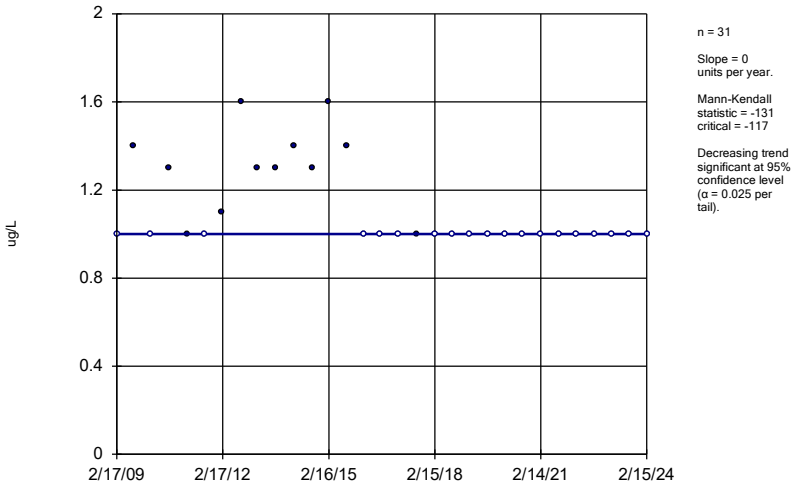
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



Constituent: 1,4-Dichlorobenzene Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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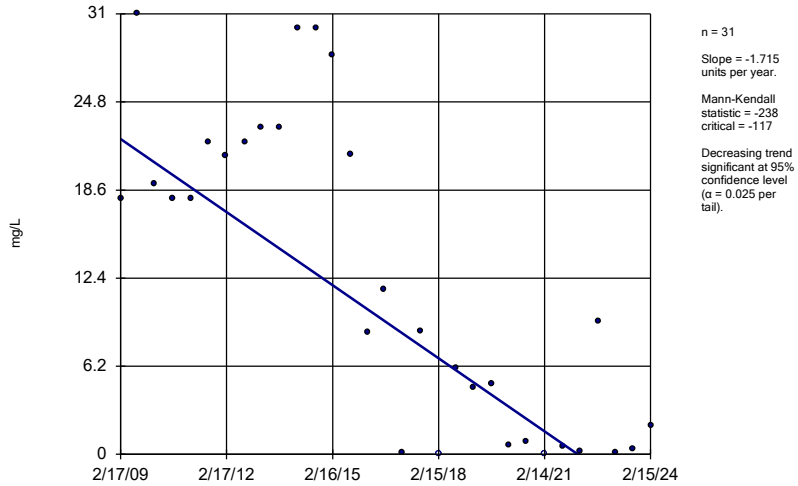
Sen's Slope Estimator

MW-17



Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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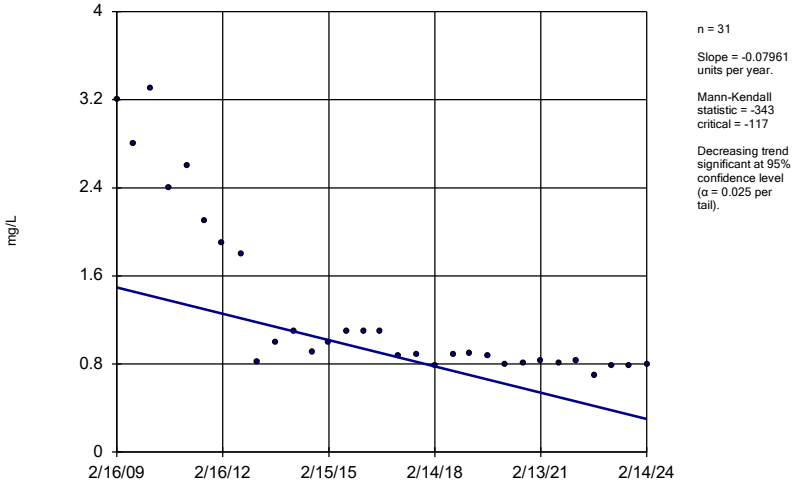
Sen's Slope Estimator

MW-18



Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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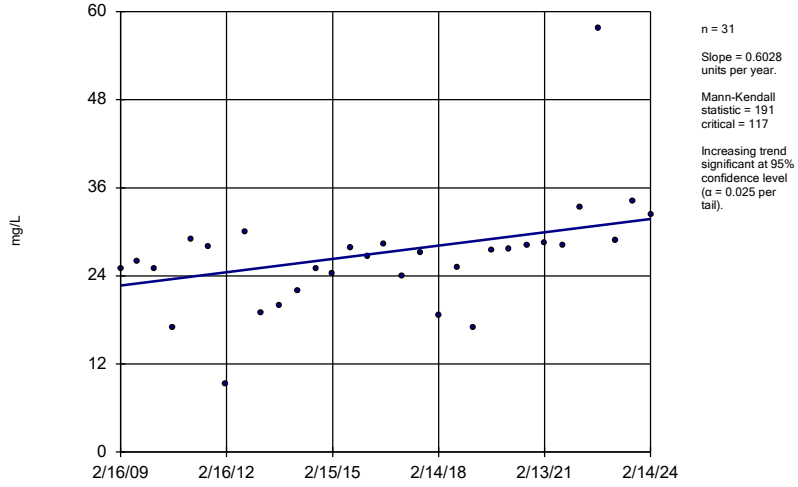
Sen's Slope Estimator

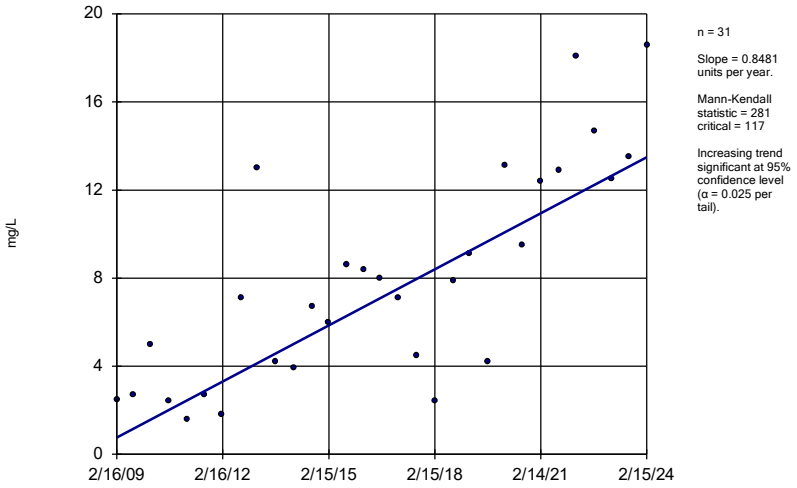
MW-3D



Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.8481 units per year.

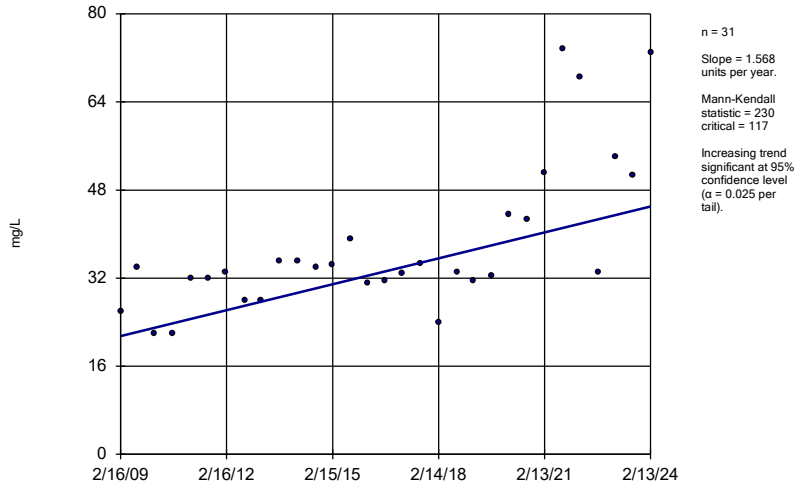
Mann-Kendall statistic = 281
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3S



n = 31

Slope = 1.568 units per year.

Mann-Kendall statistic = 230
critical = 117

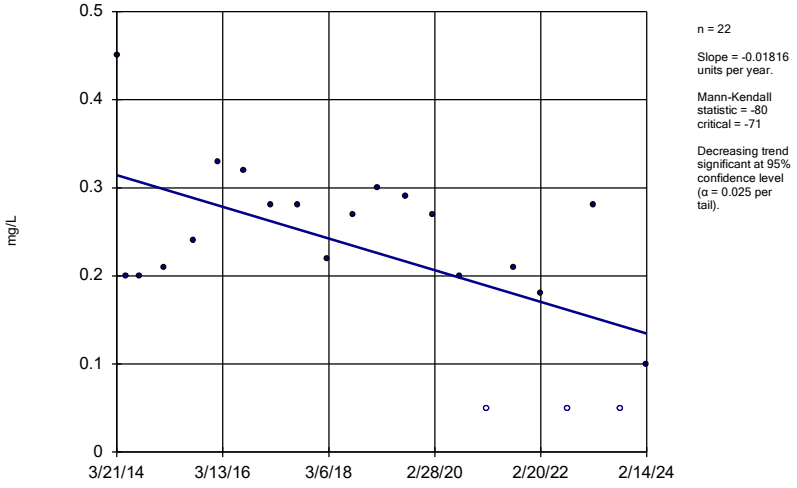
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.01816 units per year.

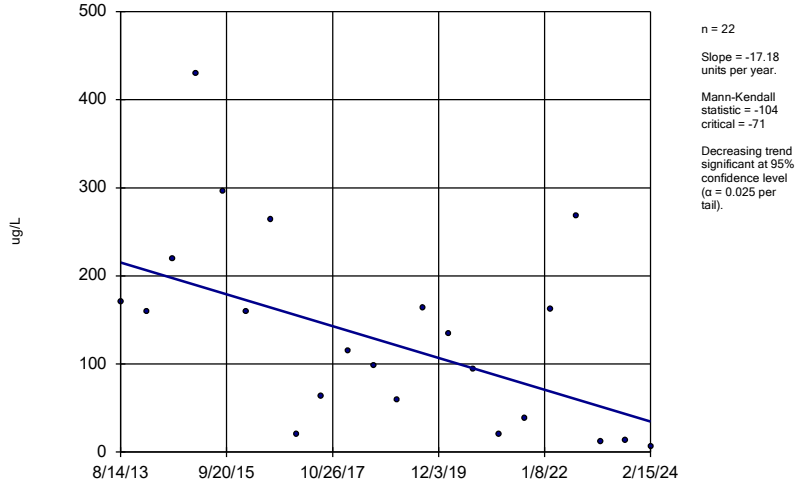
Mann-Kendall statistic = -80
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Ammonia-N Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-16



n = 22

Slope = -17.18 units per year.

Mann-Kendall statistic = -104
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic-Total Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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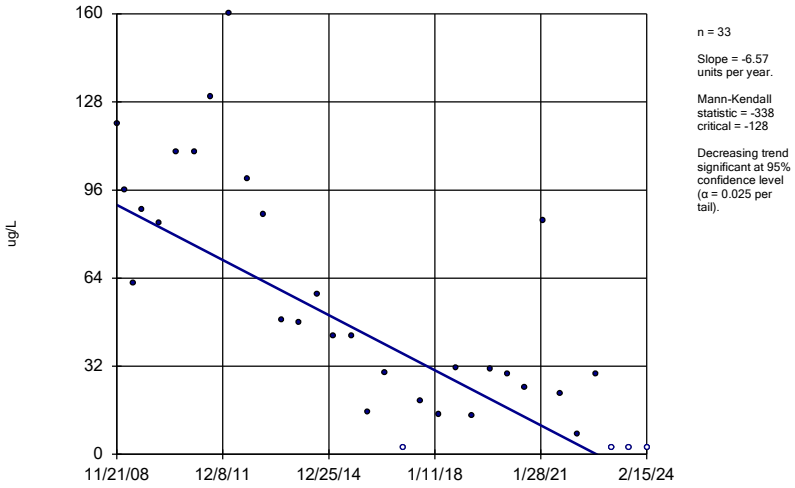
Sen's Slope Estimator

MW-17



n = 33

Slope = -6.57 units per year.

Mann-Kendall statistic = -338
critical = -128

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic-Total Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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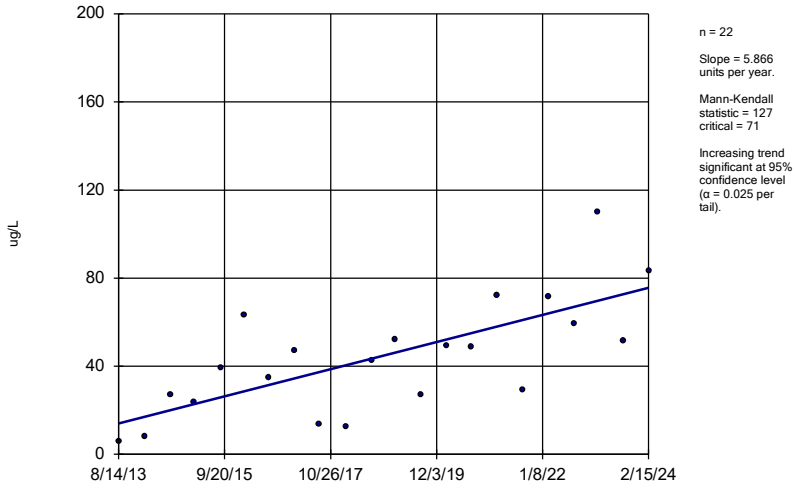
Sen's Slope Estimator

MW-3DR



n = 22

Slope = 5.866 units per year.

Mann-Kendall statistic = 127
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic-Total Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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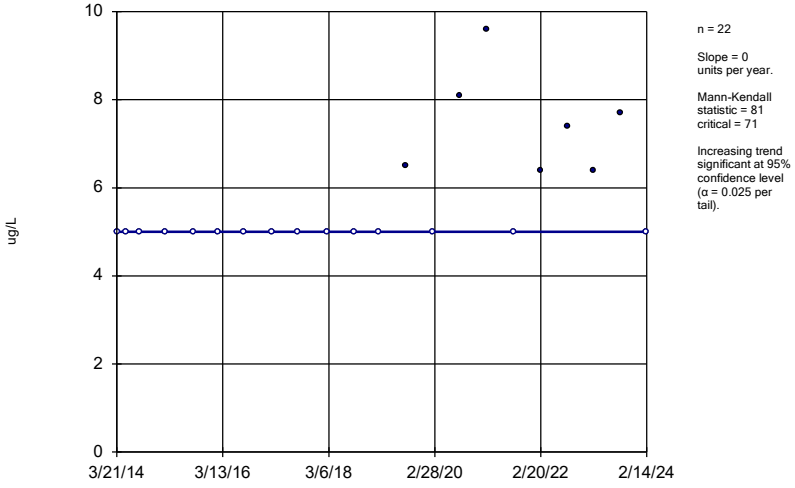
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 81
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic-Total Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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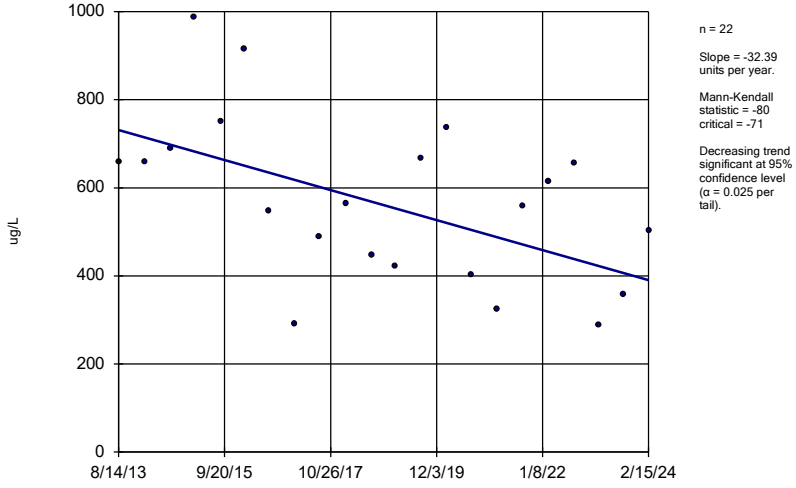
Sen's Slope Estimator

MW-16



n = 22

Slope = -32.39 units per year.

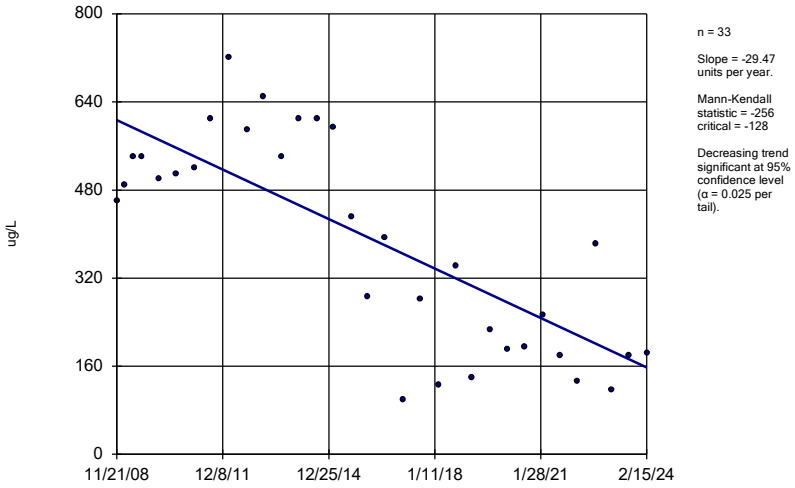
Mann-Kendall statistic = -80
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-17



n = 33

Slope = -29.47 units per year.

Mann-Kendall statistic = -256 critical = -128

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

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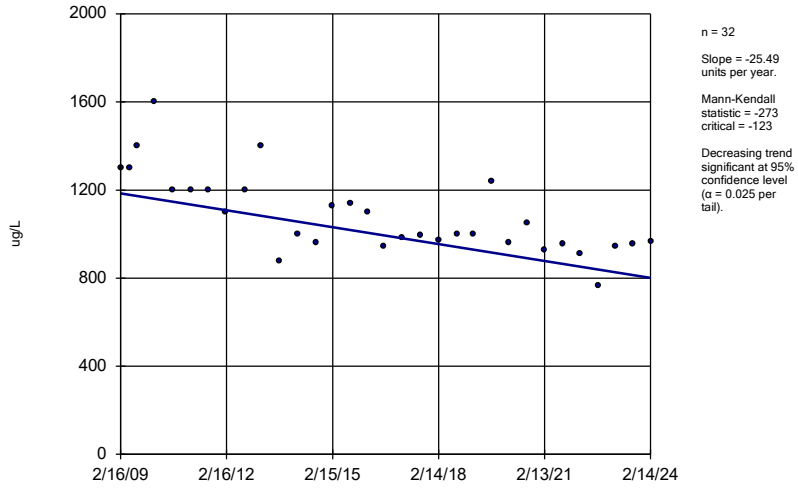
Sen's Slope Estimator

MW-18



n = 32

Slope = -25.49 units per year.

Mann-Kendall statistic = -273 critical = -123

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

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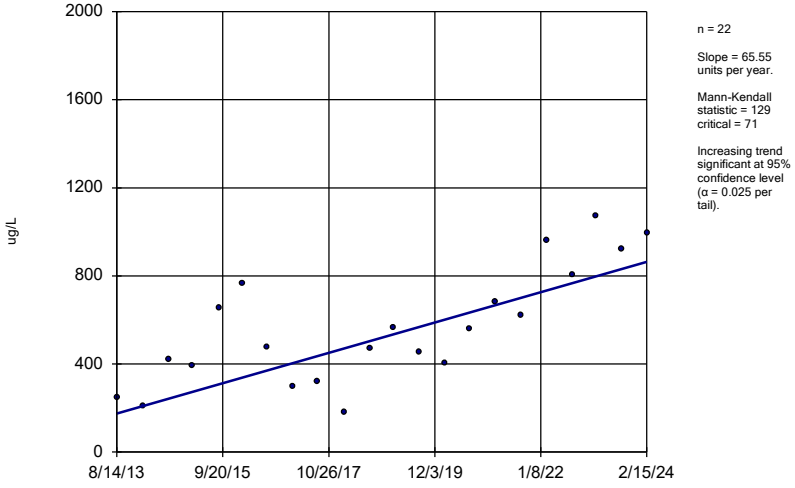
Sen's Slope Estimator

MW-3DR



n = 22

Slope = 65.55 units per year.

Mann-Kendall statistic = 129 critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

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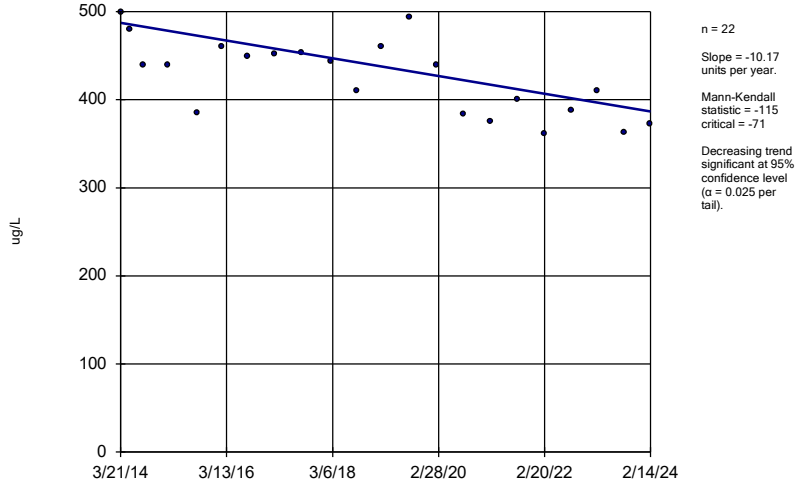
Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -10.17 units per year.

Mann-Kendall statistic = -115 critical = -71

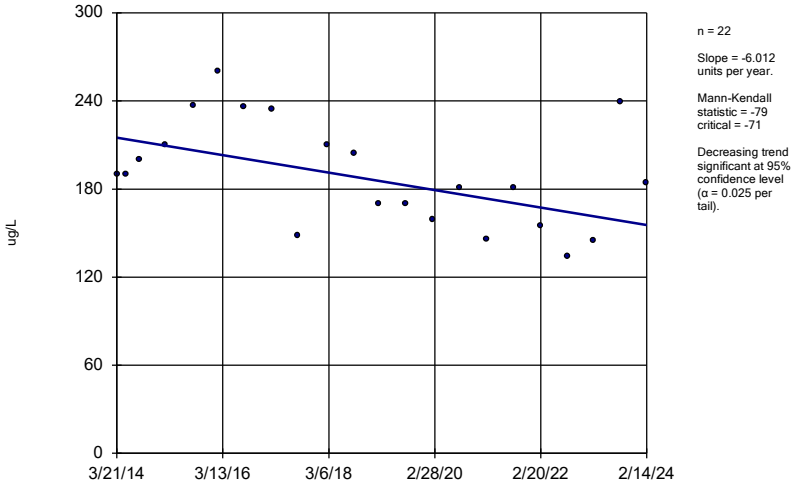
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

SP-2 (bg)

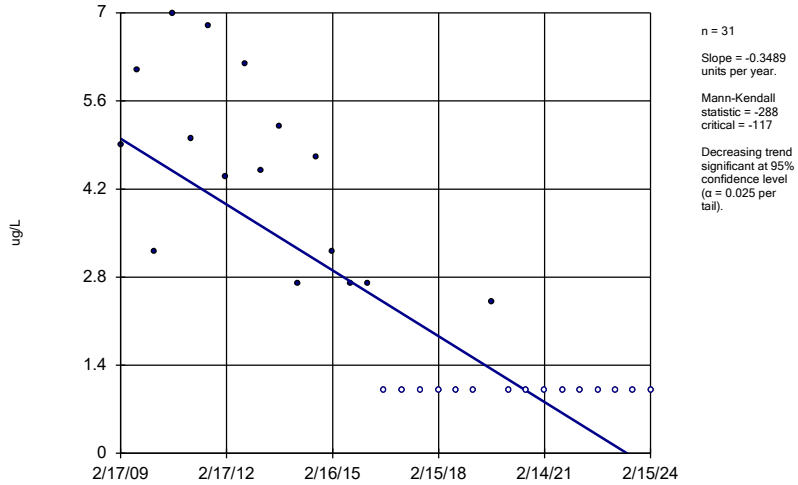


Constituent: Barium [Total] Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-16

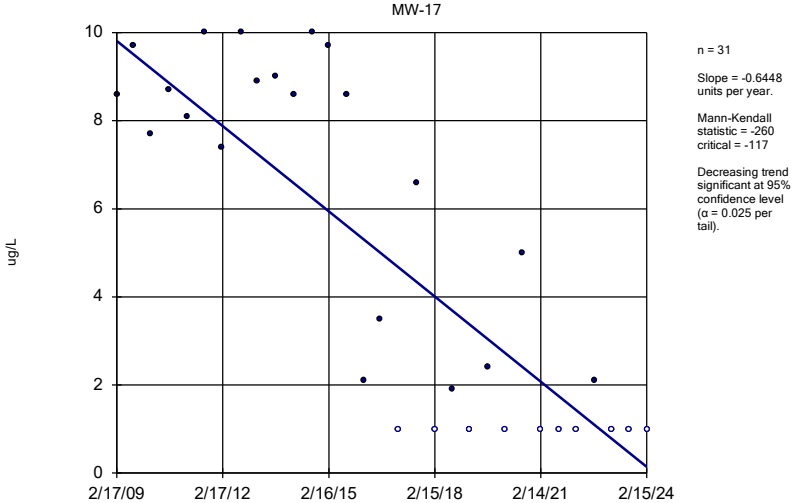


Constituent: Benzene Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17

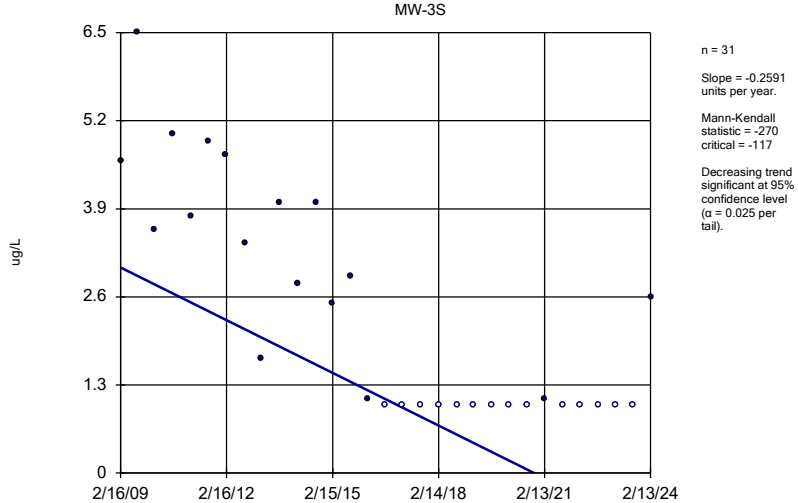


Constituent: Benzene Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

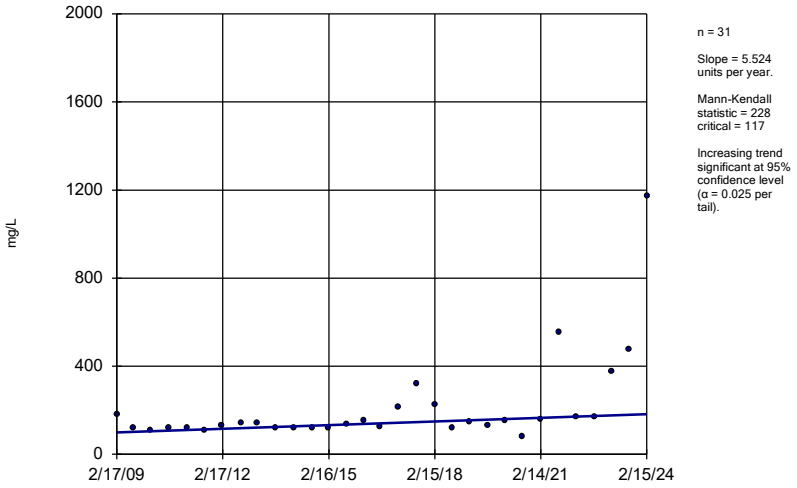
MW-3S



Constituent: Benzene Analysis Run 3/14/2024 10:04 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-16



n = 31

Slope = 5.524 units per year.

Mann-Kendall statistic = 228
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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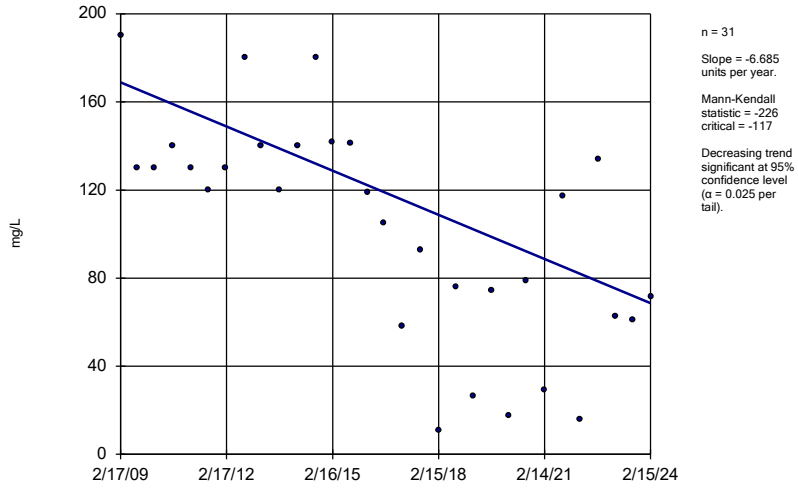
Sen's Slope Estimator

MW-17



n = 31

Slope = -6.685 units per year.

Mann-Kendall statistic = -226
critical = -117

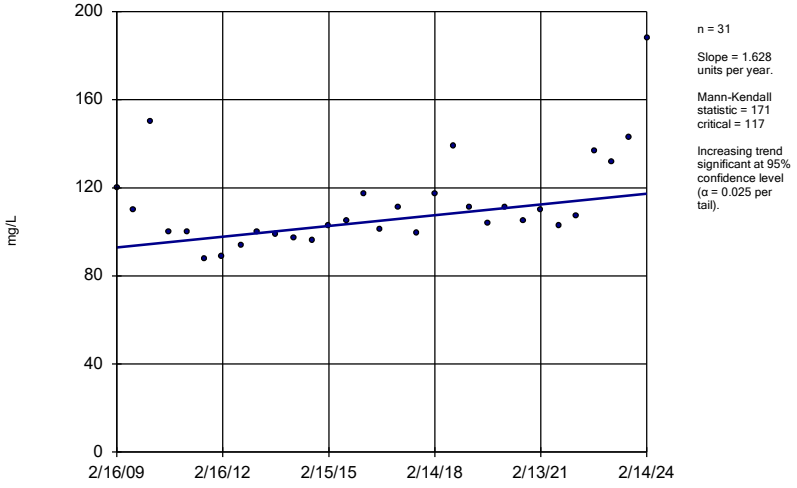
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 31

Slope = 1.628 units per year.

Mann-Kendall statistic = 171
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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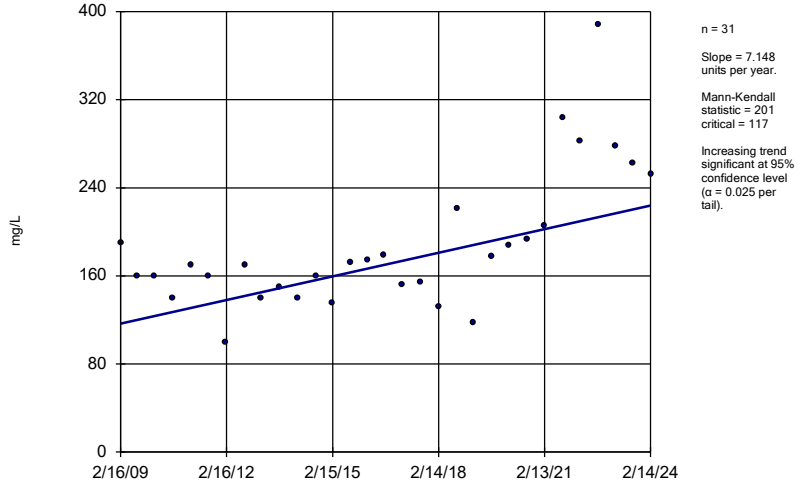
Sen's Slope Estimator

MW-3D



n = 31

Slope = 7.148 units per year.

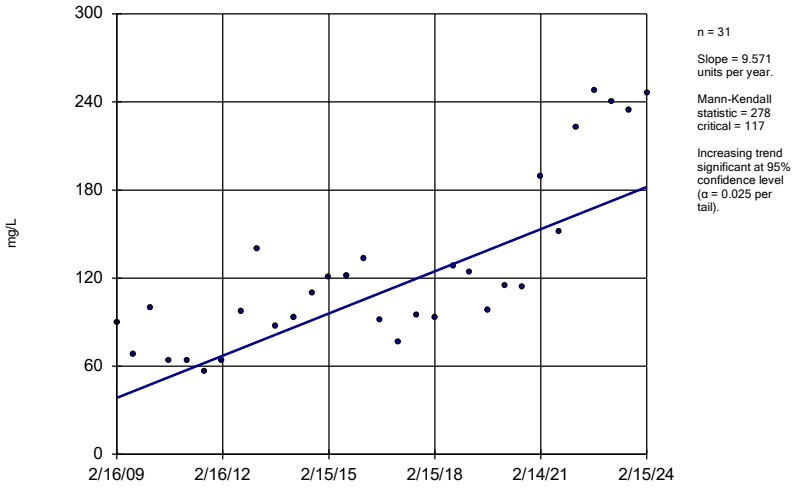
Mann-Kendall statistic = 201
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 9.571 units per year.

Mann-Kendall statistic = 278
critical = 117

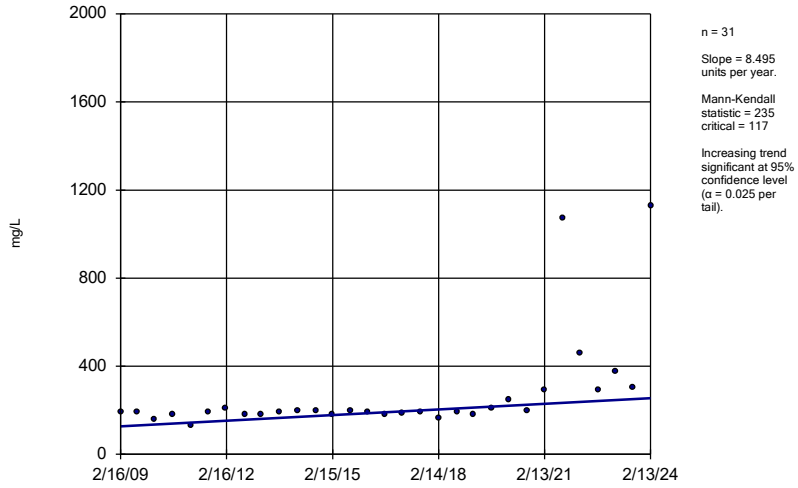
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3S



n = 31

Slope = 8.495 units per year.

Mann-Kendall statistic = 235
critical = 117

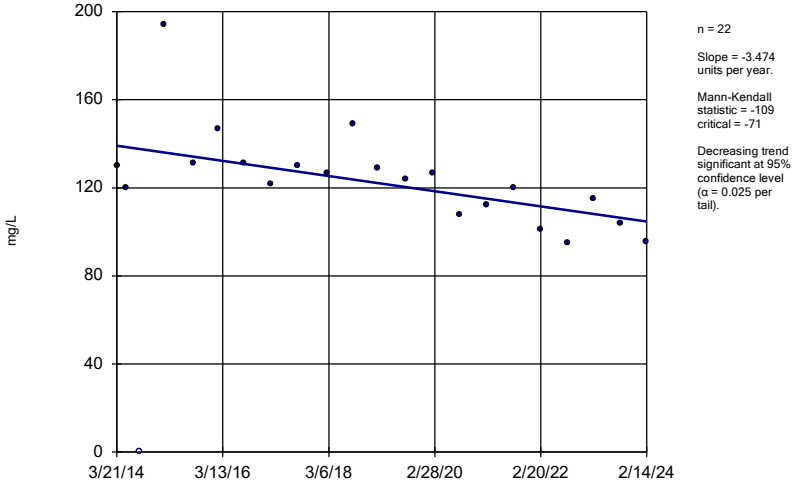
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -3.474 units per year.

Mann-Kendall statistic = -109
critical = -71

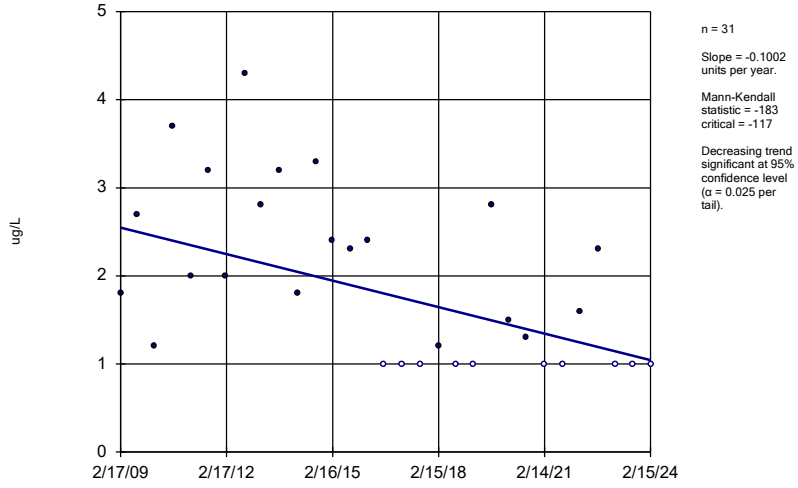
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-16



n = 31

Slope = -0.1002 units per year.

Mann-Kendall statistic = -183
critical = -117

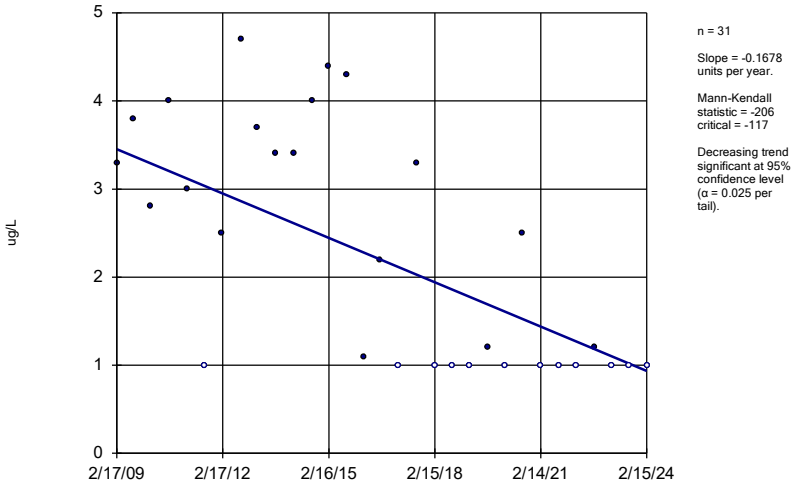
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chlorobenzene Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 31

Slope = -0.1678 units per year.

Mann-Kendall statistic = -206
critical = -117

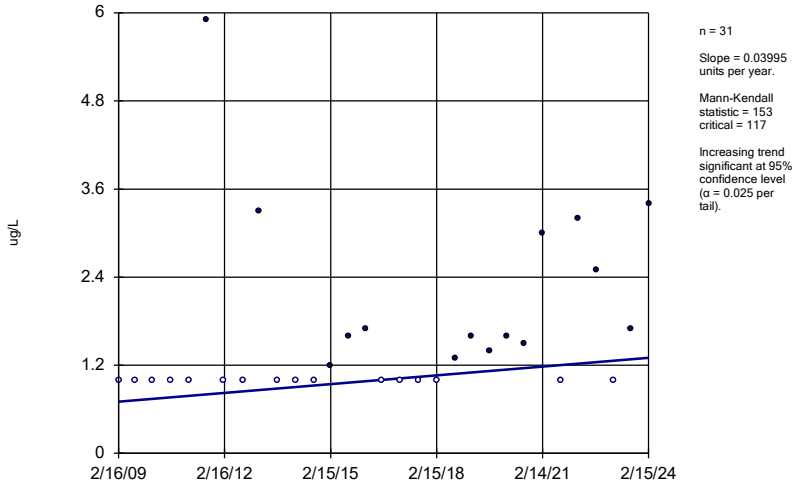
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chlorobenzene Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.03995 units per year.

Mann-Kendall statistic = 153
critical = 117

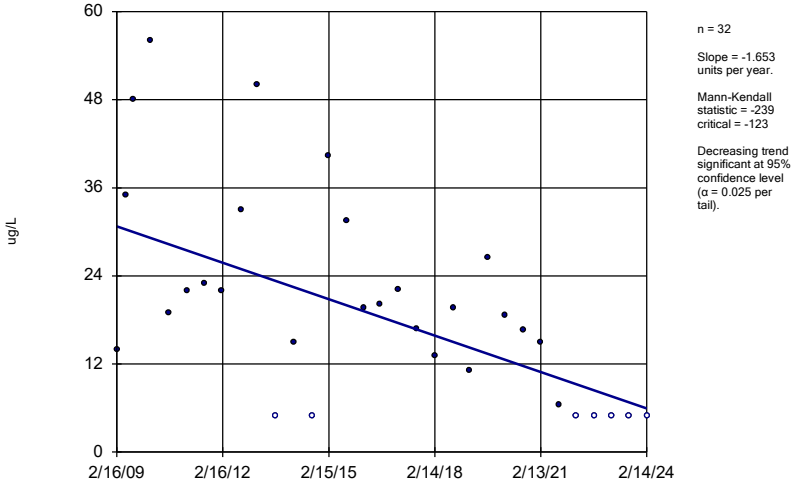
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chlorobenzene Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -1.653 units per year.

Mann-Kendall statistic = -239
critical = -123

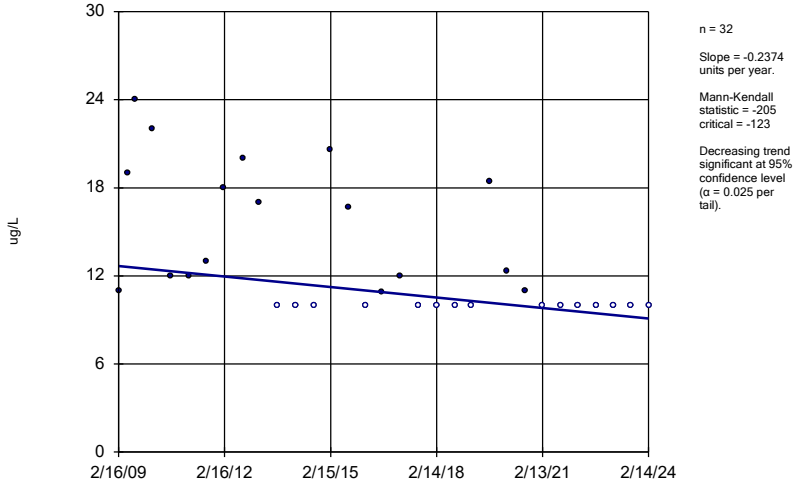
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chromium [Total] Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -0.2374 units per year.

Mann-Kendall statistic = -205
critical = -123

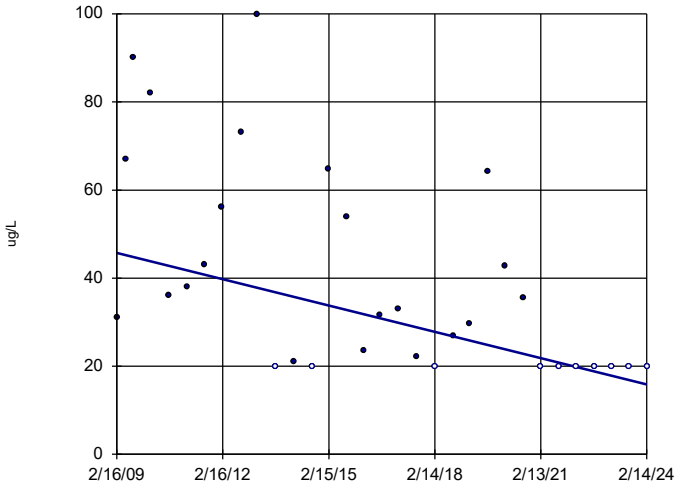
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt [Total] Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -1.989 units per year.

Mann-Kendall statistic = -219
critical = -123

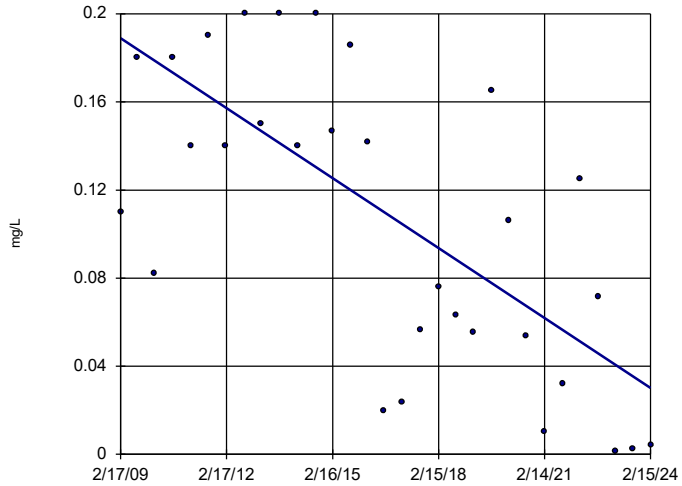
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Copper [Total] Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-16



n = 31

Slope = -0.01059 units per year.

Mann-Kendall statistic = -216
critical = -117

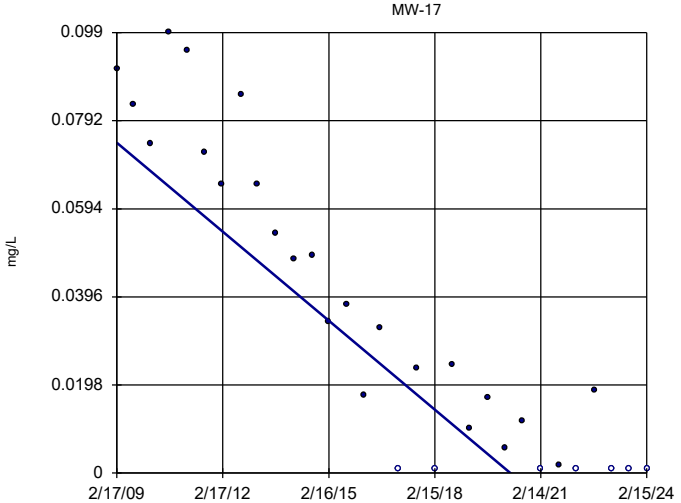
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 31

Slope = -0.006664 units per year.

Mann-Kendall statistic = -357
critical = -117

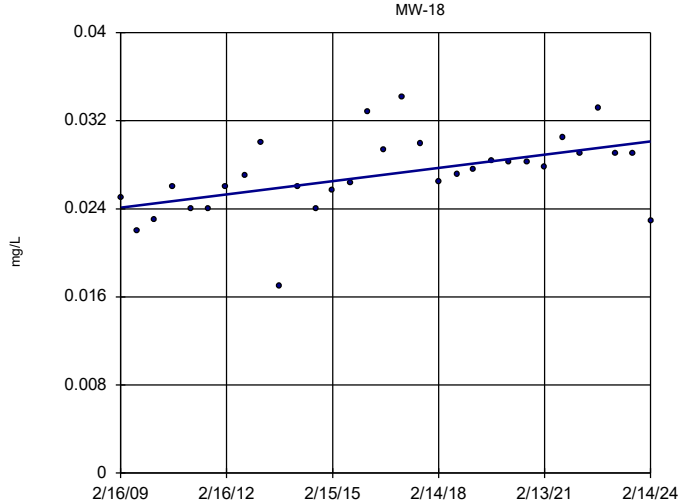
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 31

Slope = 0.0004026 units per year.

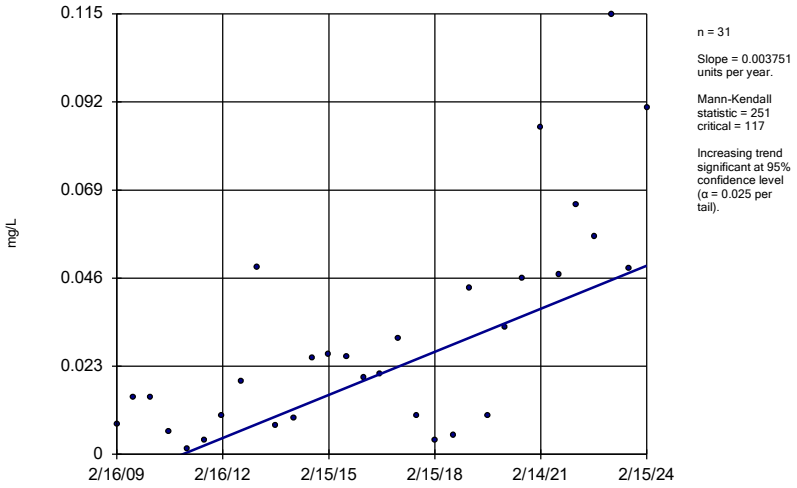
Mann-Kendall statistic = 201
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.003751 units per year.

Mann-Kendall statistic = 251
critical = 117

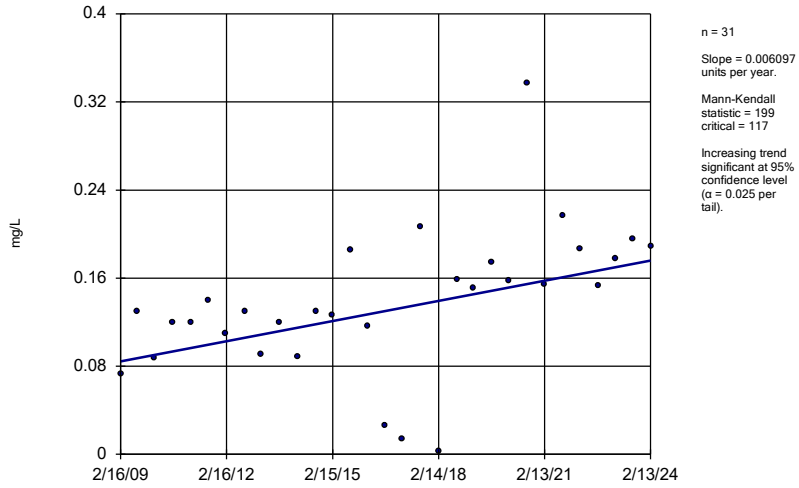
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3S



n = 31

Slope = 0.006097 units per year.

Mann-Kendall statistic = 199
critical = 117

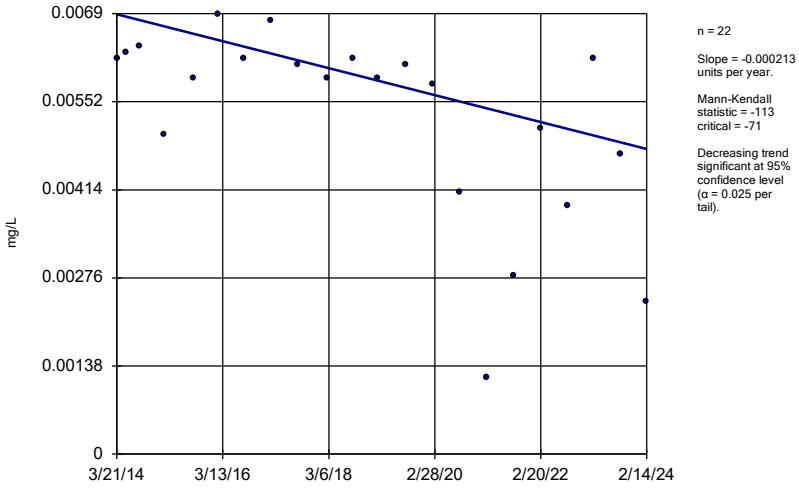
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.000213 units per year.

Mann-Kendall statistic = -113
critical = -71

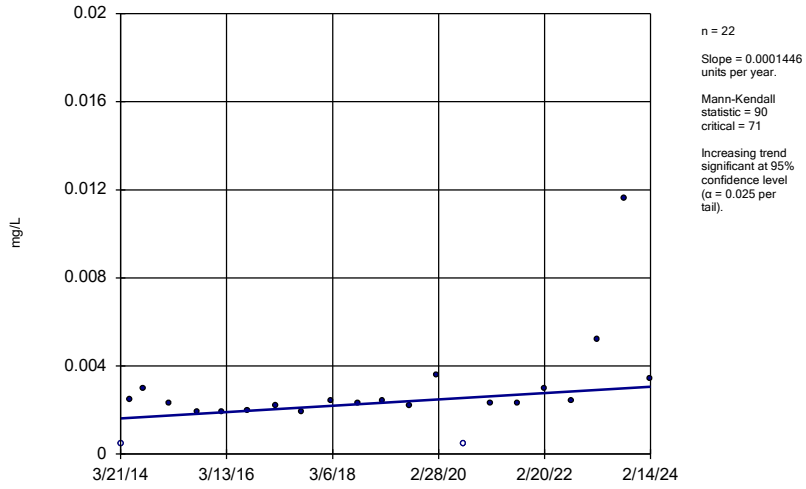
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = 0.0001446 units per year.

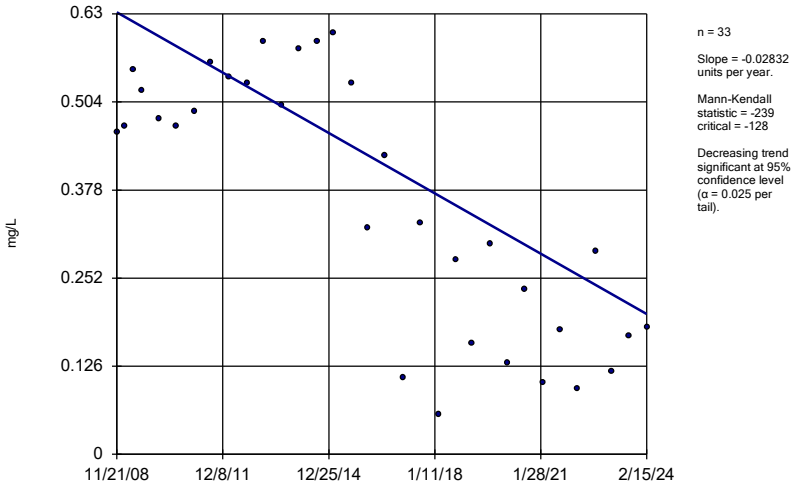
Mann-Kendall statistic = 90
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-17



n = 33

Slope = -0.02832 units per year.

Mann-Kendall statistic = -239
critical = -128

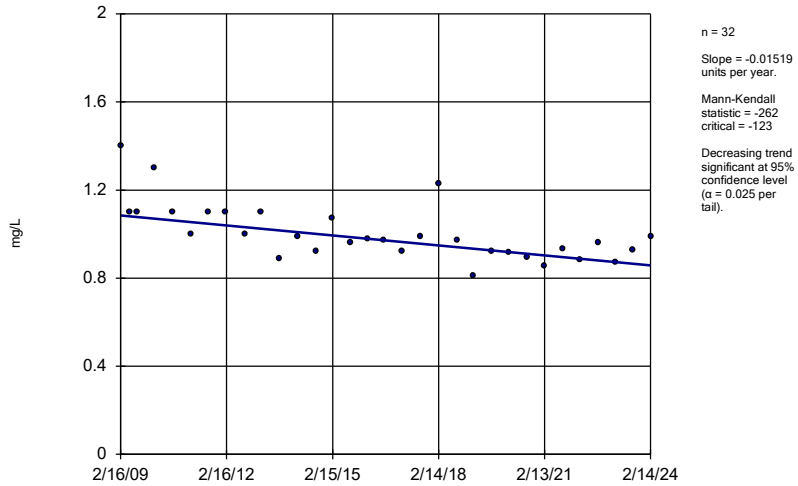
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 32

Slope = -0.01519 units per year.

Mann-Kendall statistic = -262
critical = -123

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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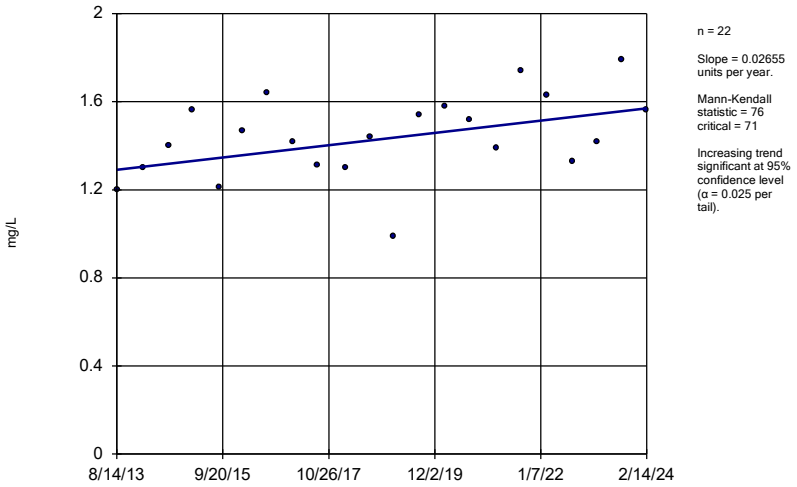
Sen's Slope Estimator

MW-3D



n = 22

Slope = 0.02655 units per year.

Mann-Kendall statistic = 76
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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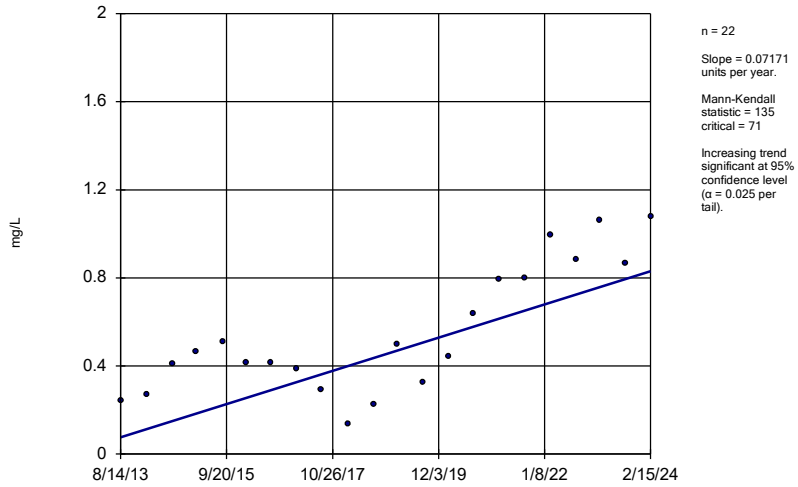
Sen's Slope Estimator

MW-3DR



n = 22

Slope = 0.07171 units per year.

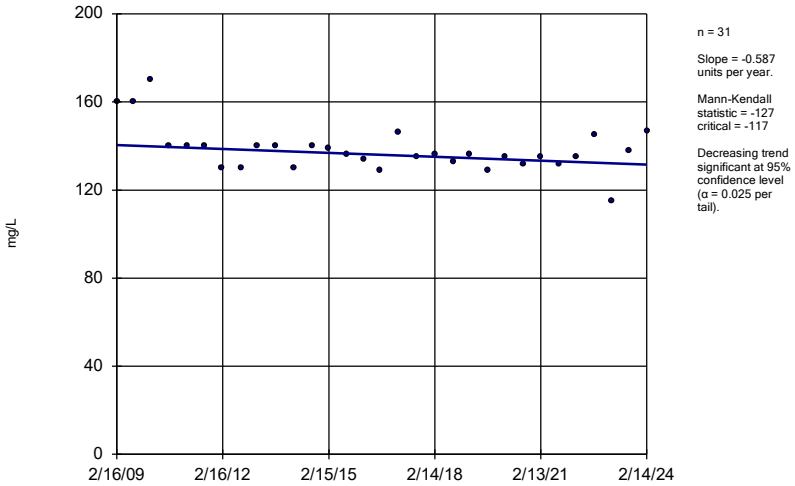
Mann-Kendall statistic = 135
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 10:05 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-18



n = 31

Slope = -0.587 units per year.

Mann-Kendall statistic = -127
critical = -117

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Calcium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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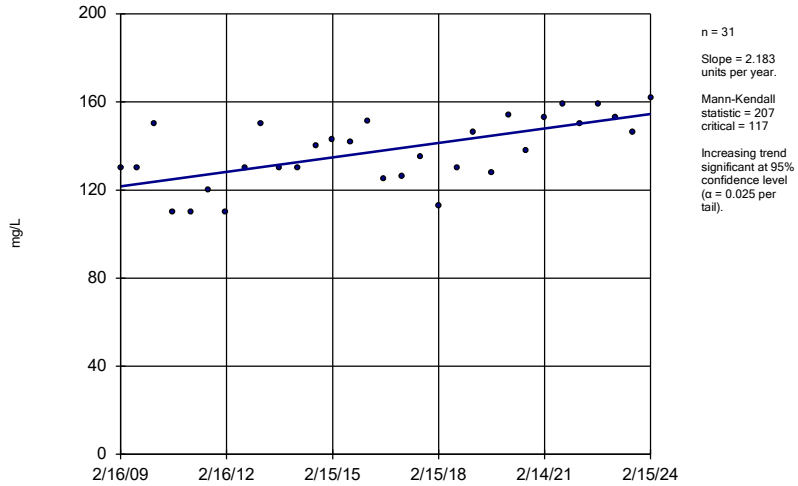
Sen's Slope Estimator

MW-3DR



n = 31

Slope = 2.183 units per year.

Mann-Kendall statistic = 207
critical = 117

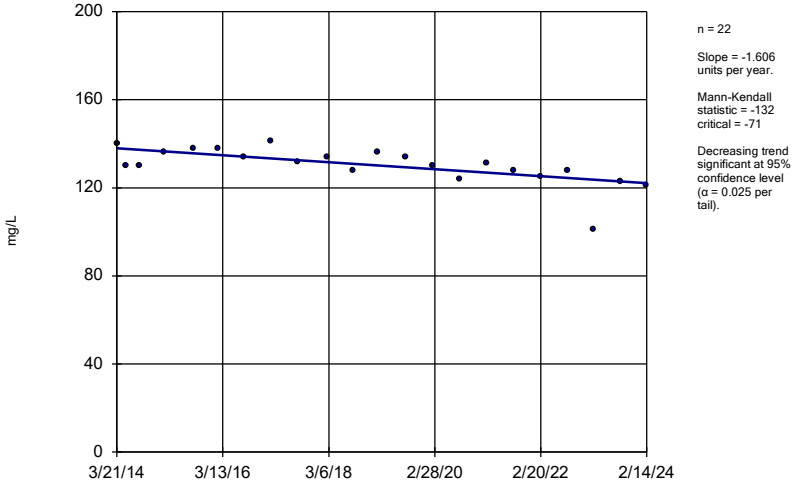
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Calcium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -1.606 units per year.

Mann-Kendall statistic = -132
critical = -71

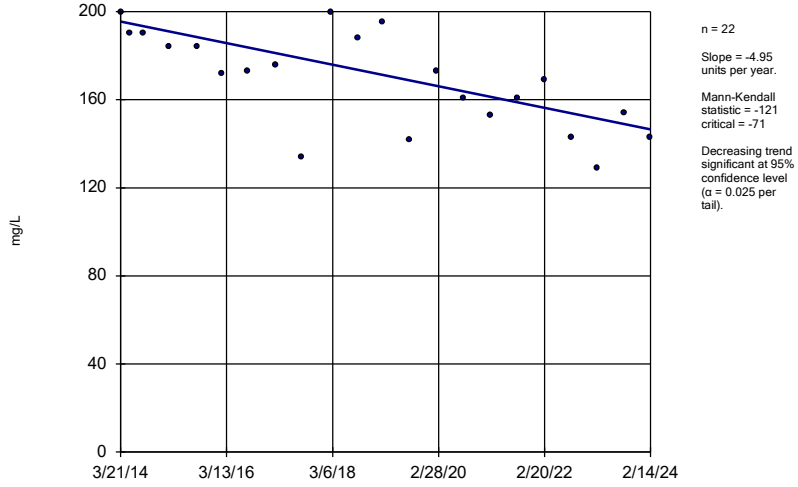
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Calcium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = -4.95 units per year.

Mann-Kendall statistic = -121
critical = -71

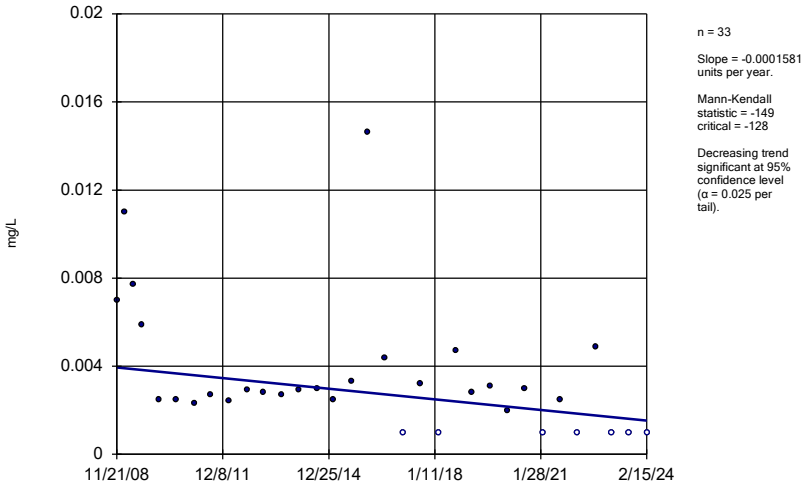
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Calcium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 33

Slope = -0.0001581 units per year.

Mann-Kendall statistic = -149
critical = -128

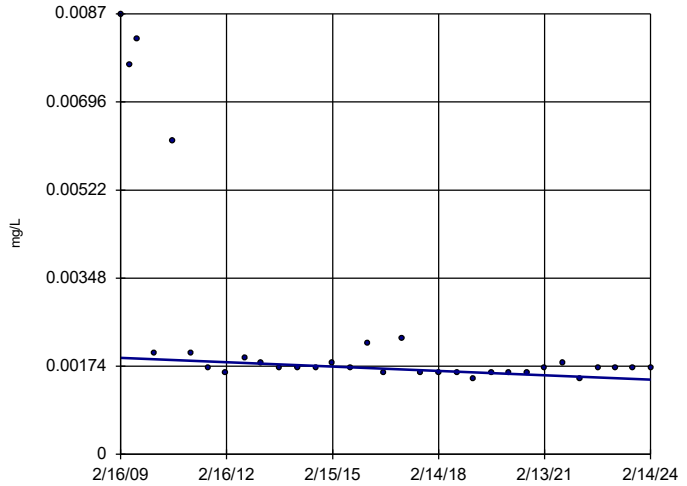
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 32

Slope = -0.00002856 units per year.

Mann-Kendall statistic = -206
critical = -123

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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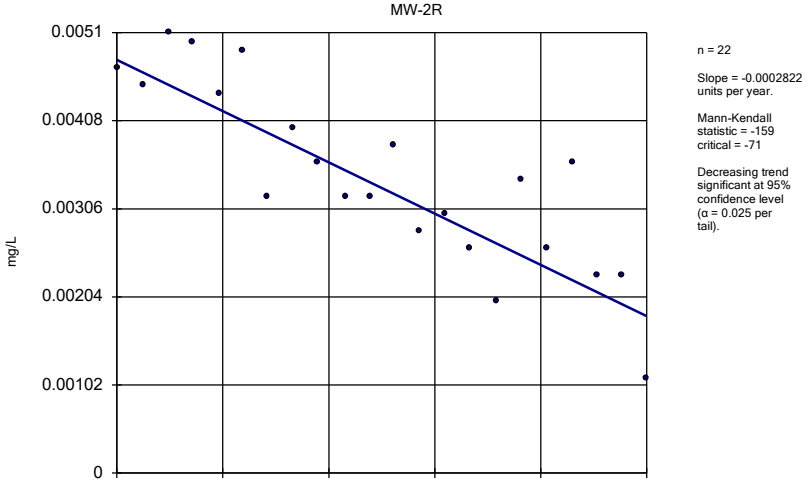
Sen's Slope Estimator

MW-2R



n = 22

Slope = -0.0002822 units per year.

Mann-Kendall statistic = -159
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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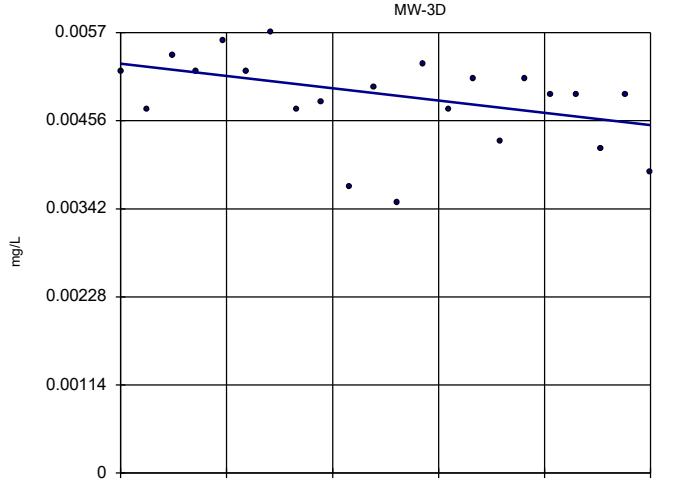
Sen's Slope Estimator

MW-3D



n = 22

Slope = -0.00007552 units per year.

Mann-Kendall statistic = -73
critical = -71

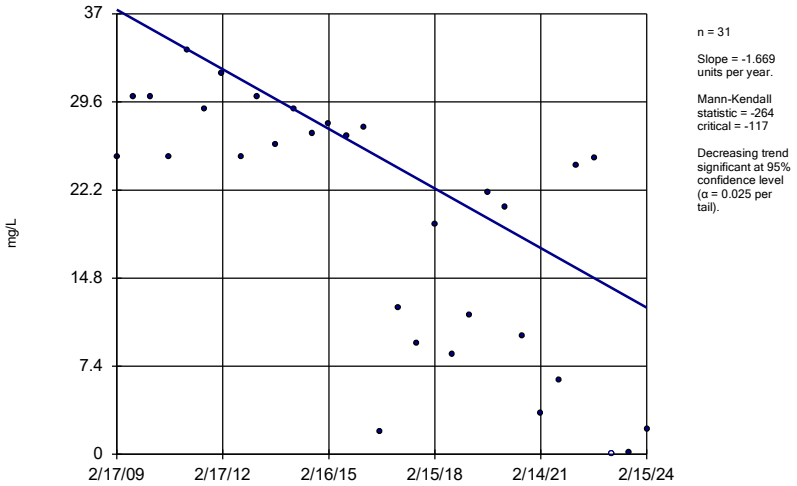
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-16



n = 31

Slope = -1.669 units per year.

Mann-Kendall statistic = -264
critical = -117

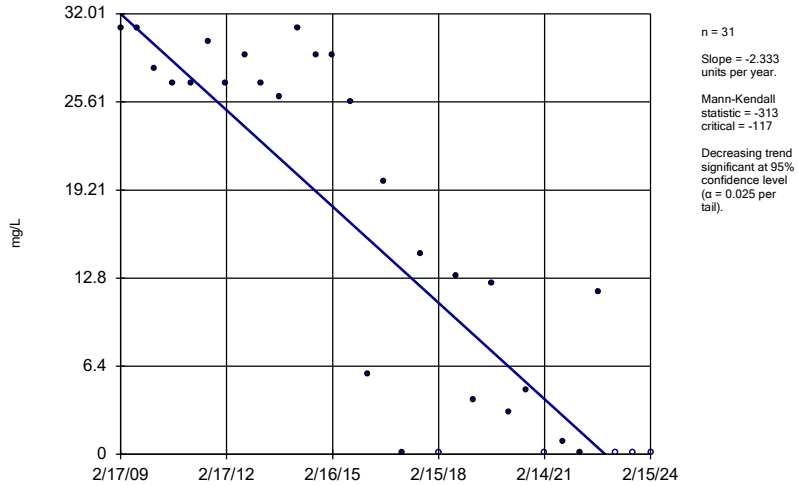
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 31

Slope = -2.333 units per year.

Mann-Kendall statistic = -313
critical = -117

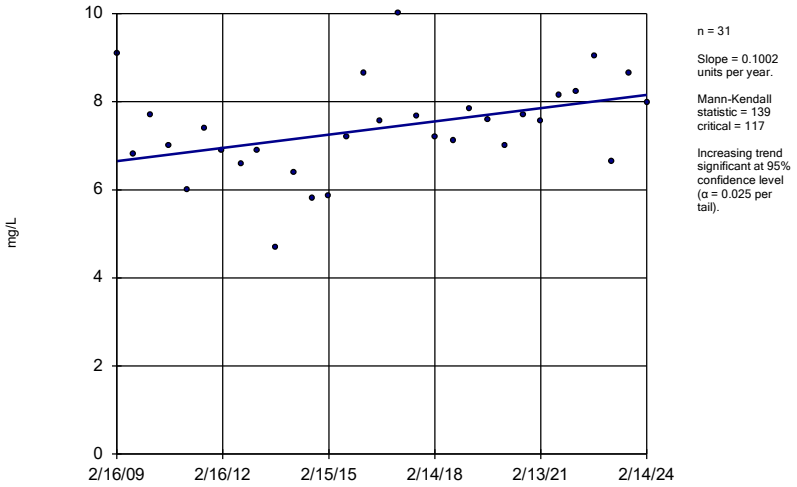
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 31

Slope = 0.1002 units per year.

Mann-Kendall statistic = 139
critical = 117

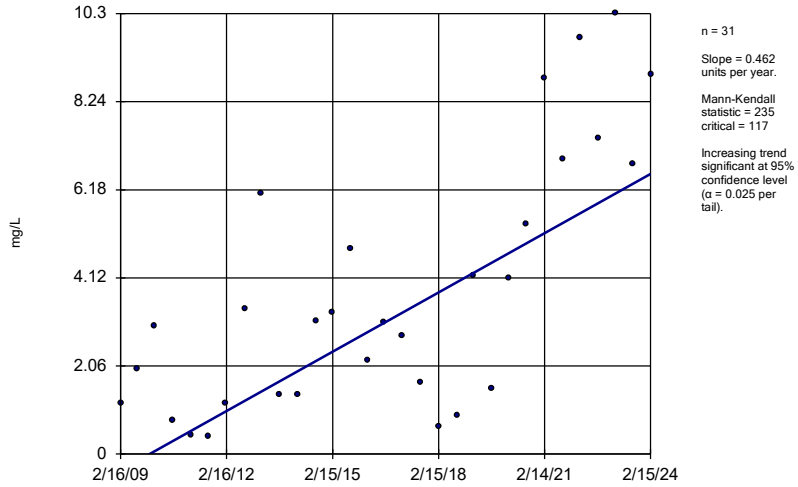
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.462 units per year.

Mann-Kendall statistic = 235
critical = 117

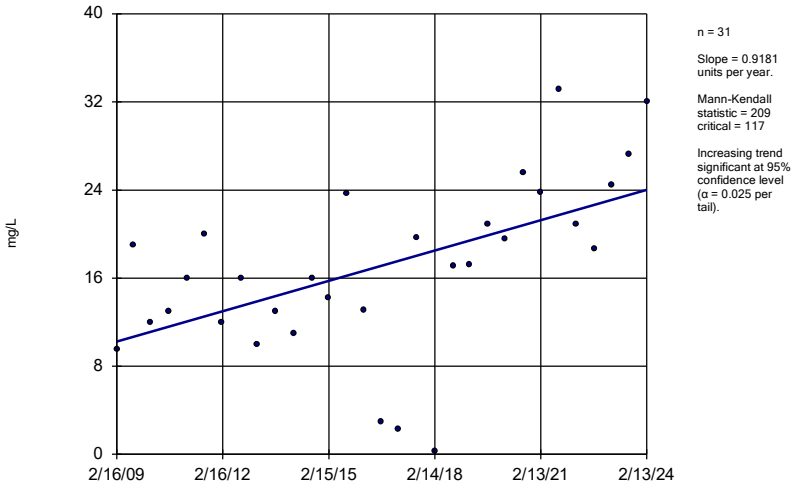
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3S



n = 31

Slope = 0.9181 units per year.

Mann-Kendall statistic = 209
critical = 117

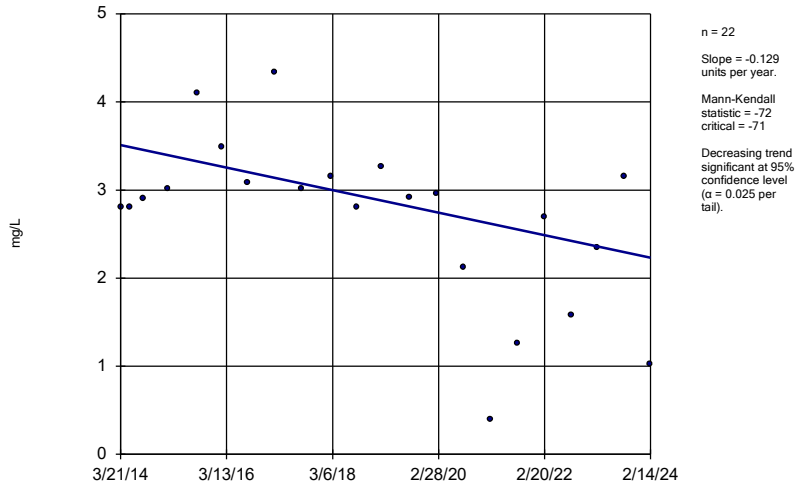
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.129 units per year.

Mann-Kendall statistic = -72
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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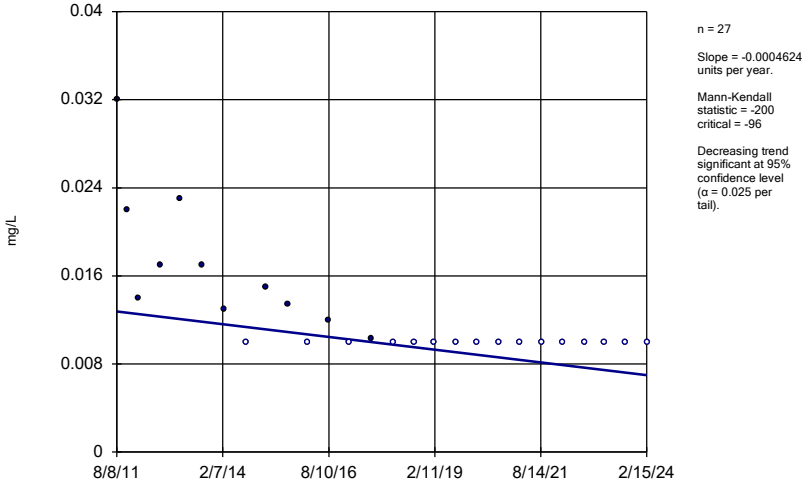
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 27

Slope = -0.0004624 units per year.

Mann-Kendall statistic = -200
critical = -96

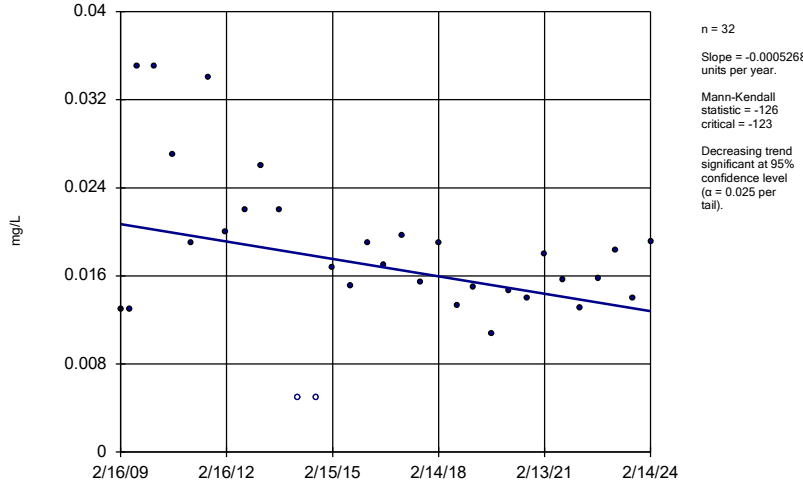
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Lithium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -0.0005268 units per year.

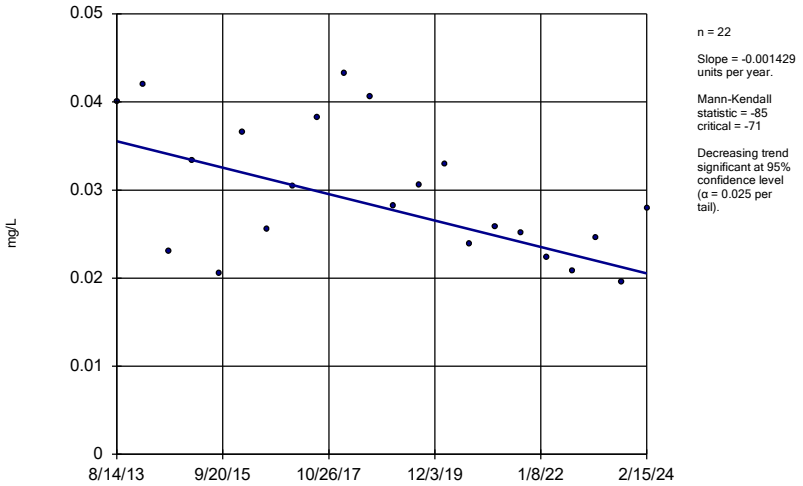
Mann-Kendall statistic = -126
critical = -123

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Lithium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



n = 22

Slope = -0.001429 units per year.

Mann-Kendall statistic = -85
critical = -71

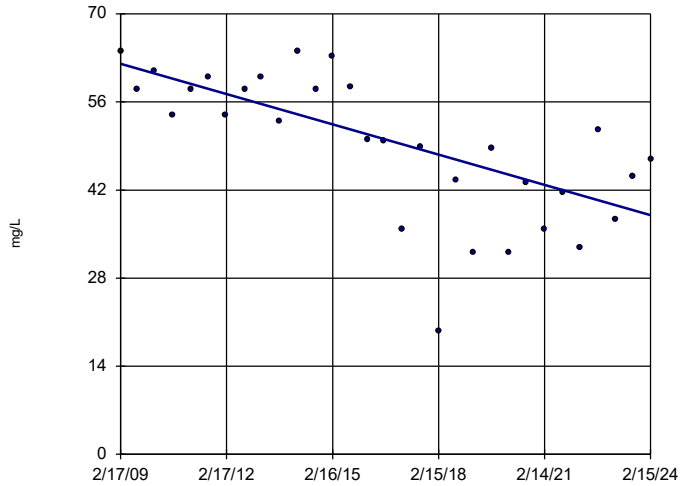
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Lithium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-17



n = 31

Slope = -1.604 units per year.

Mann-Kendall statistic = -244
critical = -117

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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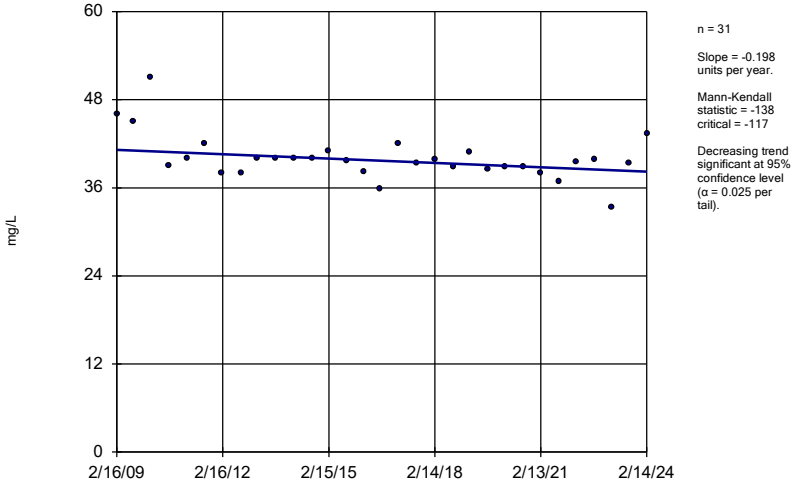
Sen's Slope Estimator

MW-18



n = 31

Slope = -0.198 units per year.

Mann-Kendall statistic = -138
critical = -117

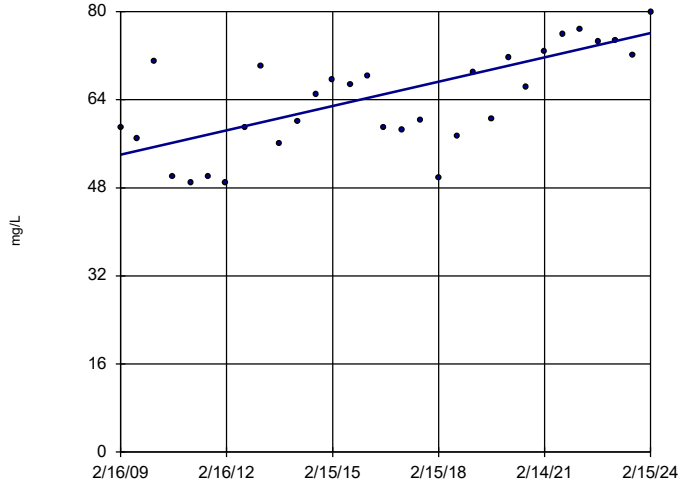
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 10:06 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 1.471 units per year.

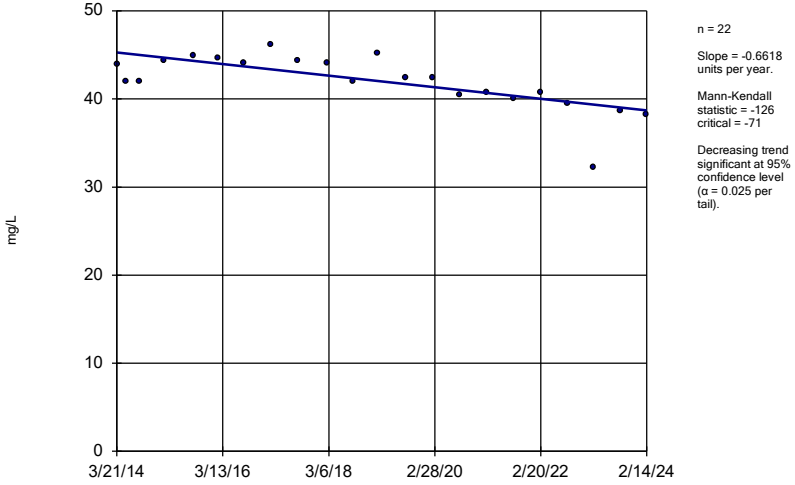
Mann-Kendall statistic = 238
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.6618 units per year.

Mann-Kendall statistic = -126
critical = -71

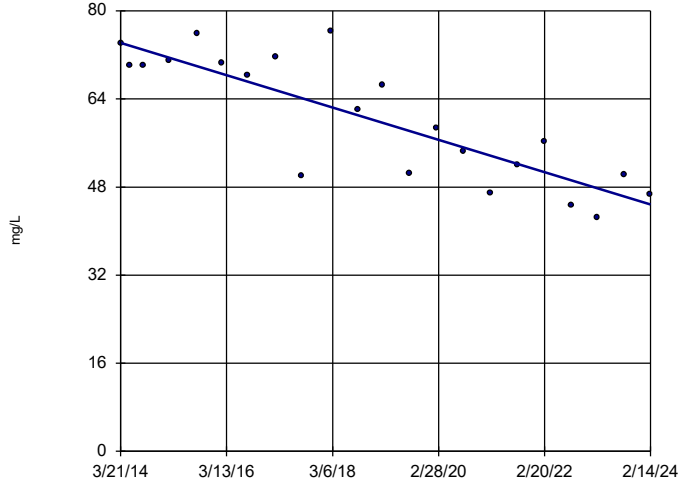
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = -2.965 units per year.

Mann-Kendall statistic = -142
critical = -71

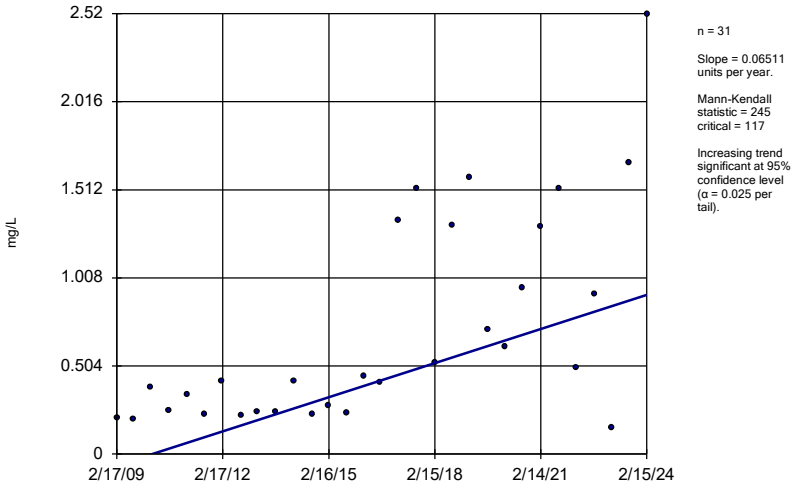
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-16



n = 31

Slope = 0.06511 units per year.

Mann-Kendall statistic = 245
critical = 117

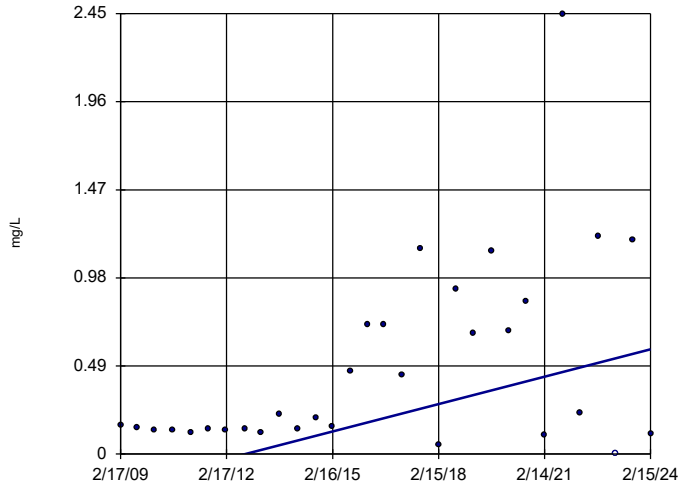
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 31

Slope = 0.0508 units per year.

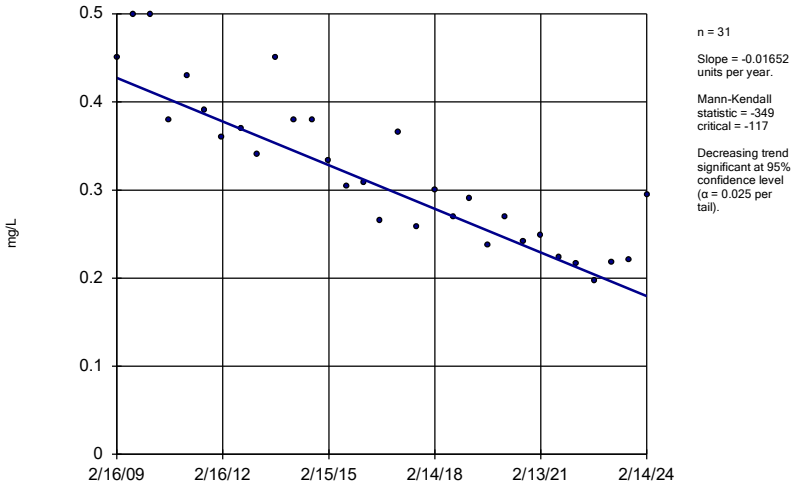
Mann-Kendall statistic = 144
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-18



n = 31

Slope = -0.01652 units per year.

Mann-Kendall statistic = -349
critical = -117

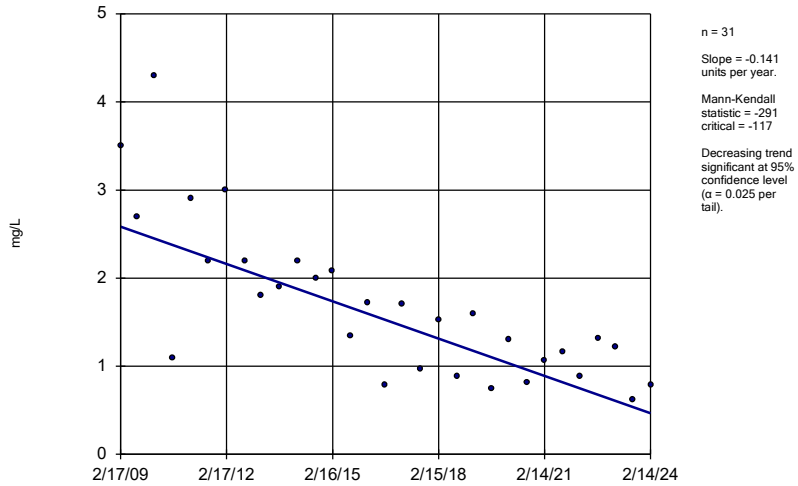
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-2R



n = 31

Slope = -0.141 units per year.

Mann-Kendall statistic = -291
critical = -117

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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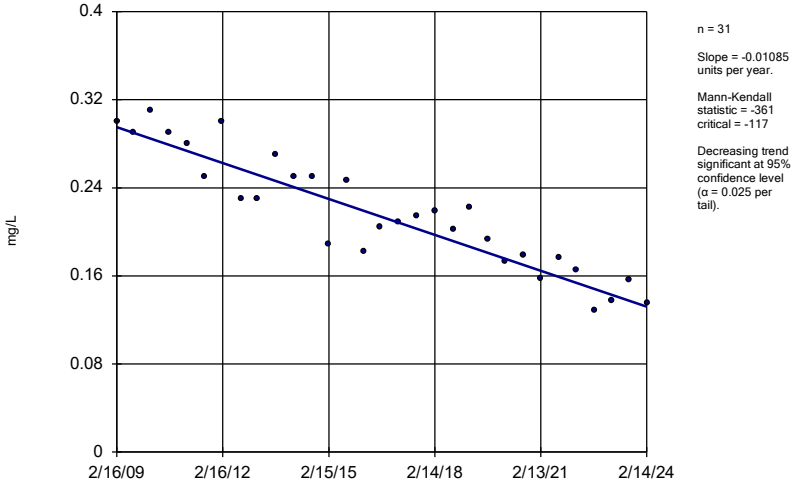
Sen's Slope Estimator

MW-3D



n = 31

Slope = -0.01085 units per year.

Mann-Kendall statistic = -361
critical = -117

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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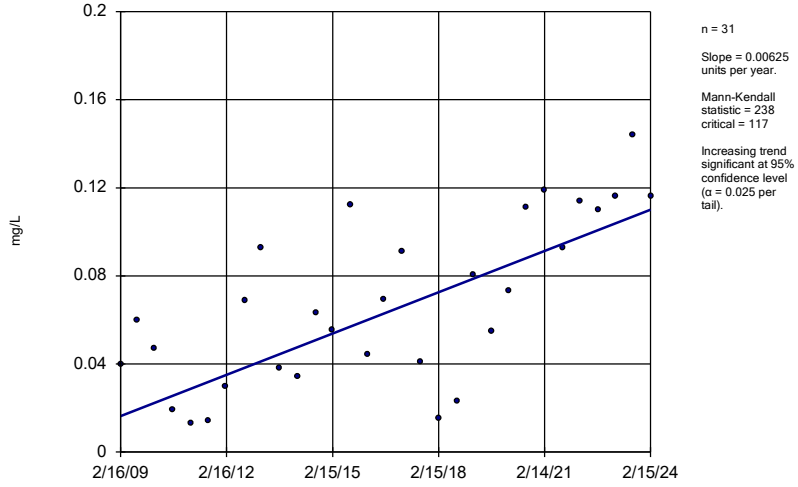
Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.00625 units per year.

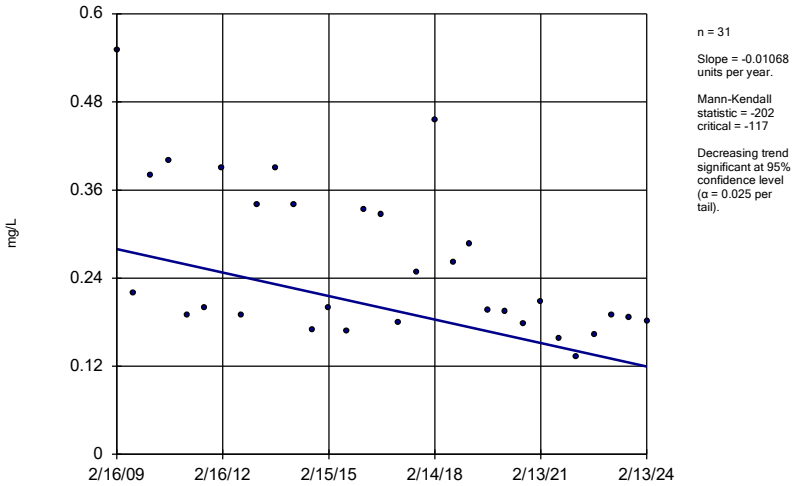
Mann-Kendall statistic = 238
critical = 117

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3S

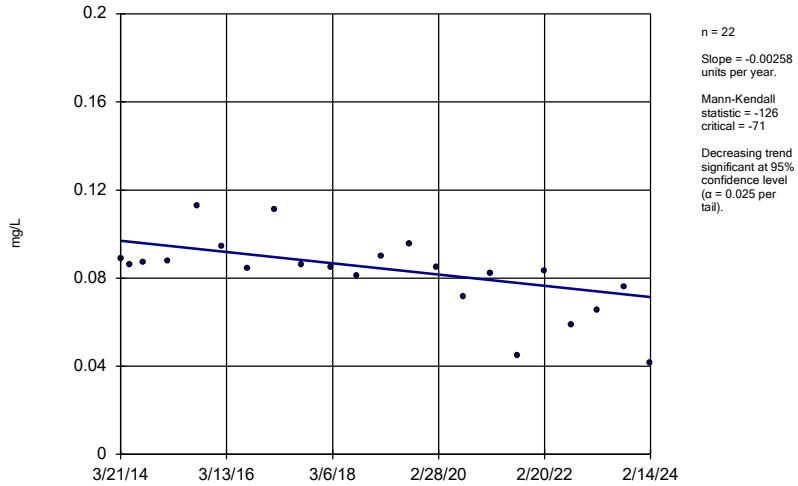


Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)

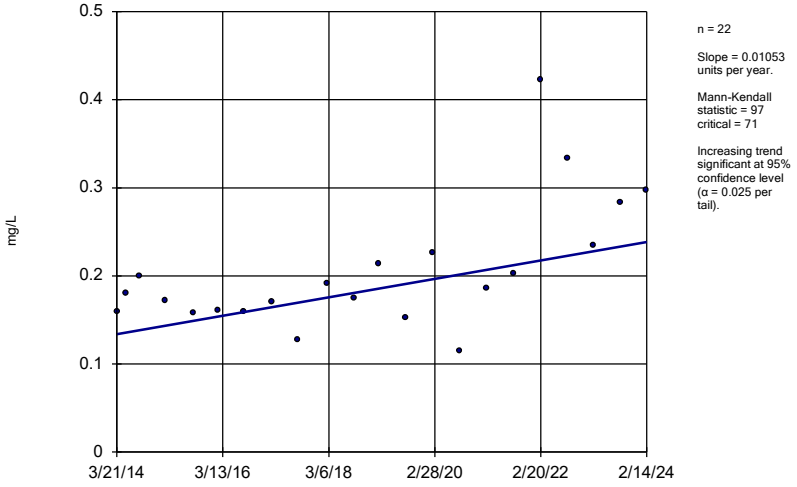


Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-2 (bg)

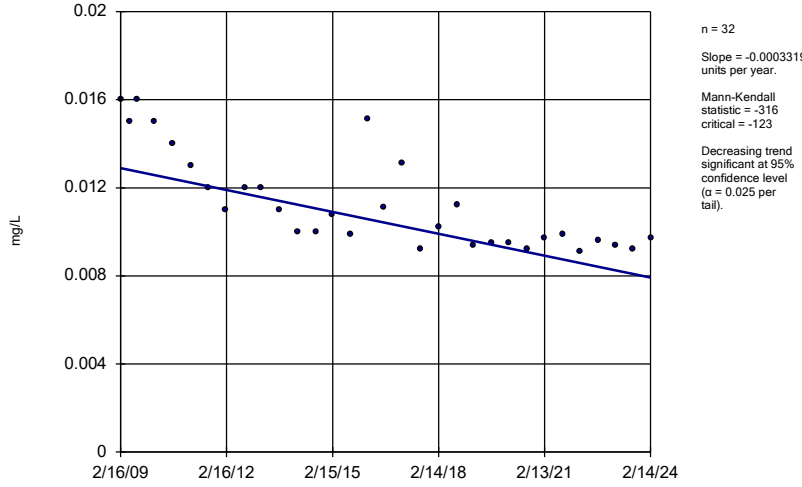


Constituent: Dissolved Manganese Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

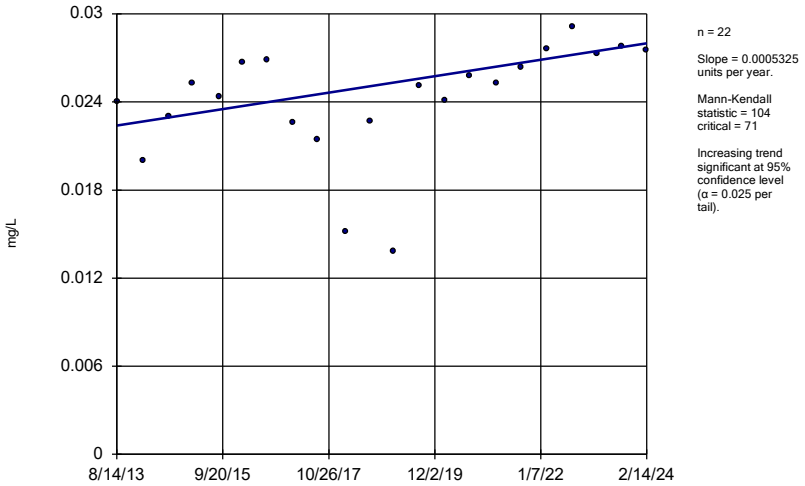
MW-18



Constituent: Dissolved Nickel Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3D



n = 22

Slope = 0.0005325 units per year.

Mann-Kendall statistic = 104
critical = 71

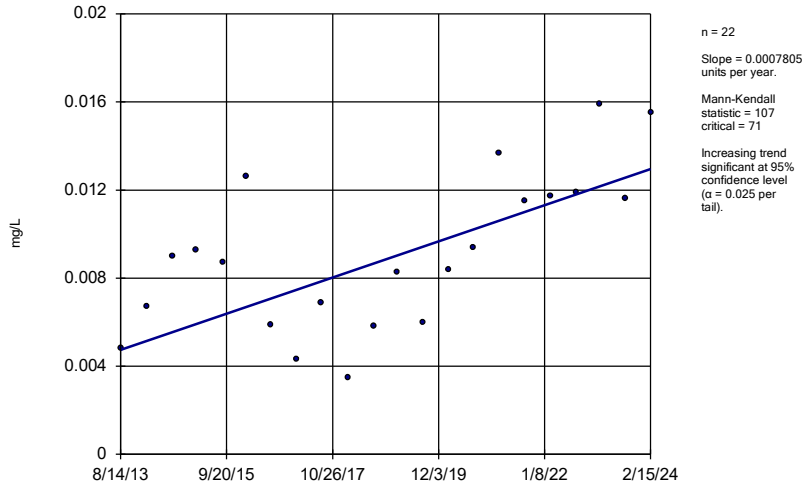
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Nickel Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3DR



n = 22

Slope = 0.0007805 units per year.

Mann-Kendall statistic = 107
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Nickel Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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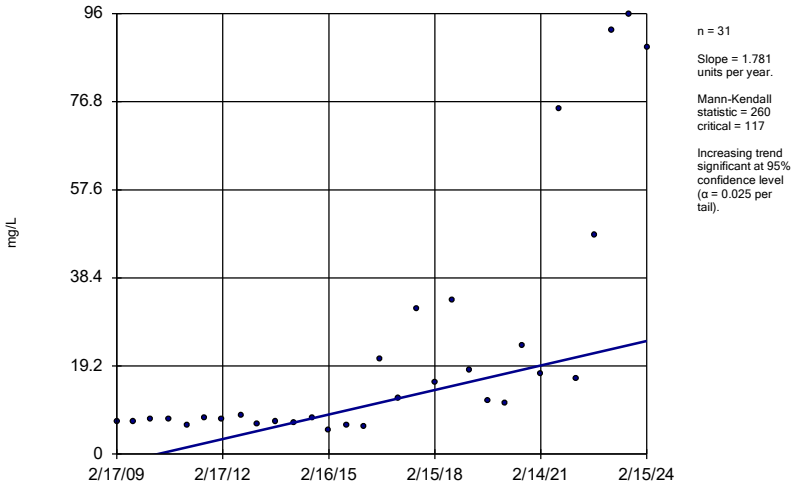
Sen's Slope Estimator

MW-16



n = 31

Slope = 1.781 units per year.

Mann-Kendall statistic = 260
critical = 117

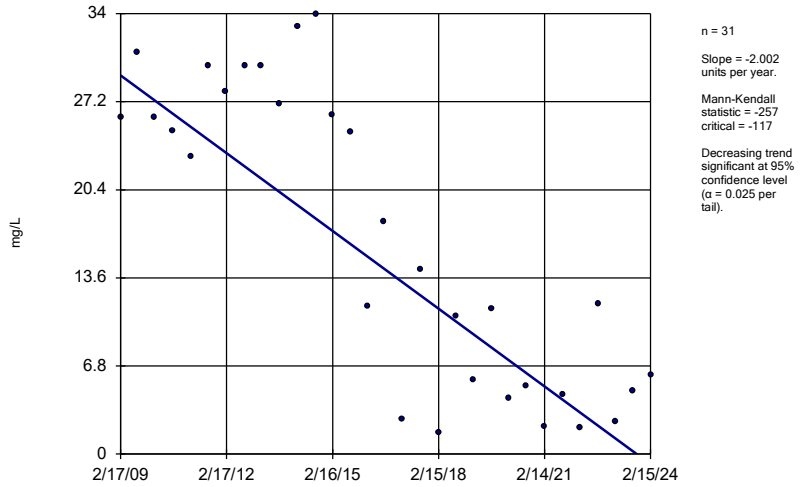
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-17



n = 31

Slope = -2.002 units per year.

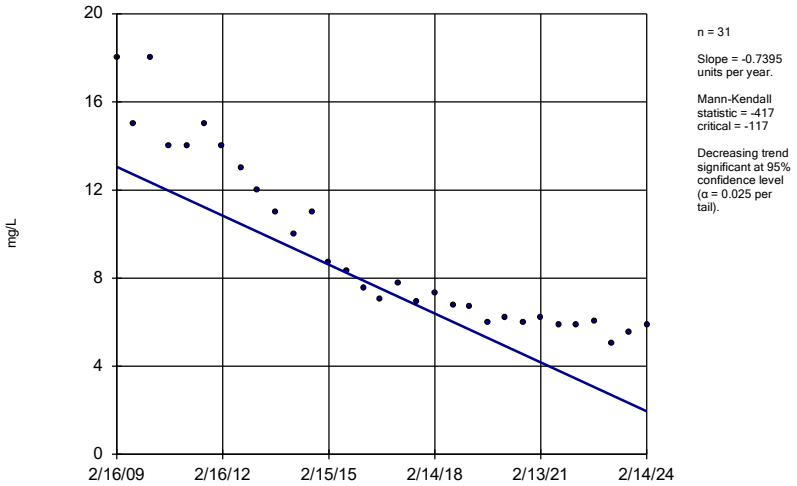
Mann-Kendall statistic = -257
critical = -117

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-18



n = 31

Slope = -0.7395 units per year.

Mann-Kendall statistic = -417
critical = -117

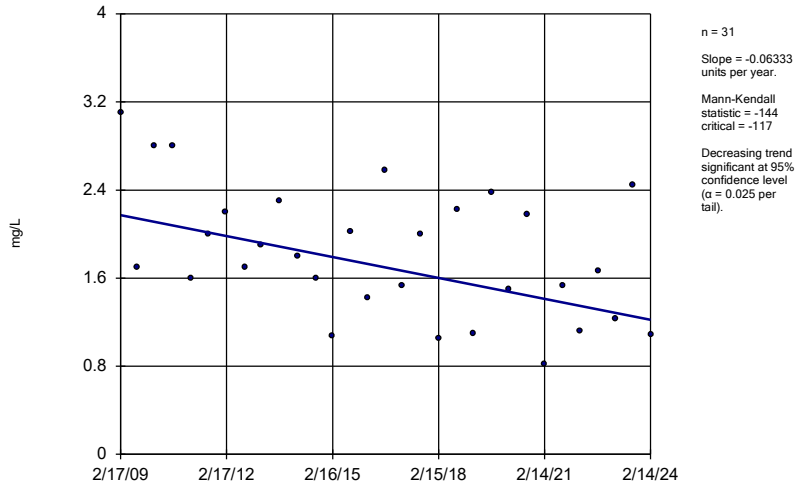
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-2R



n = 31

Slope = -0.06333 units per year.

Mann-Kendall statistic = -144
critical = -117

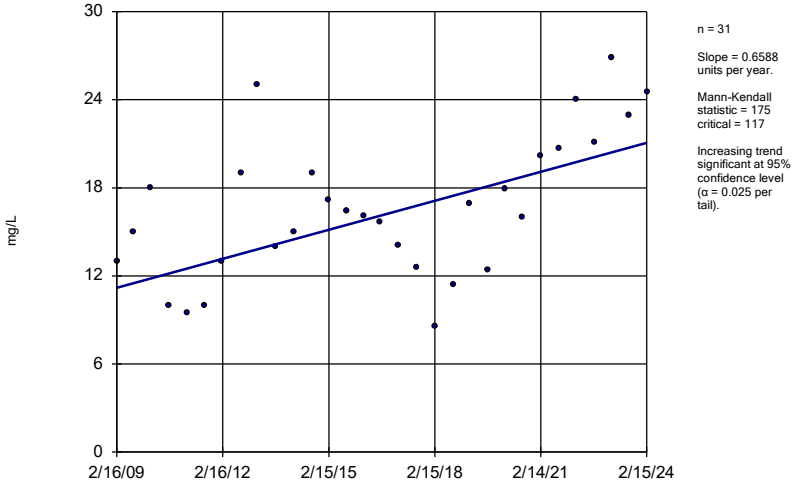
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 0.6588 units per year.

Mann-Kendall statistic = 175
critical = 117

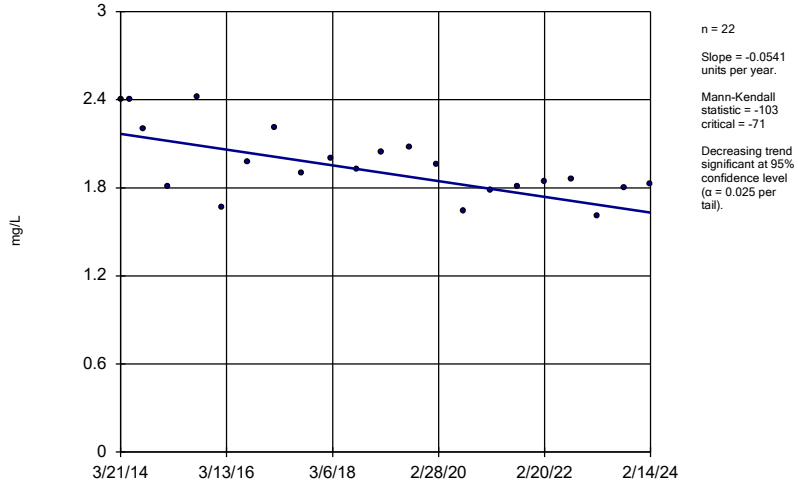
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.0541 units per year.

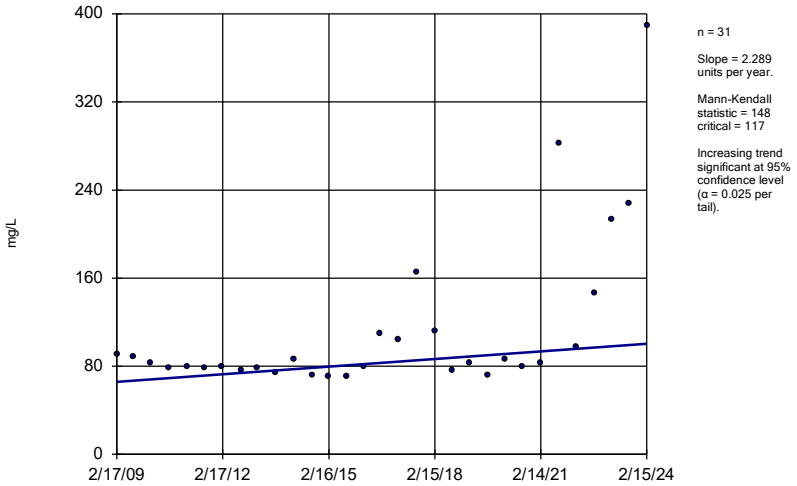
Mann-Kendall statistic = -103
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-16

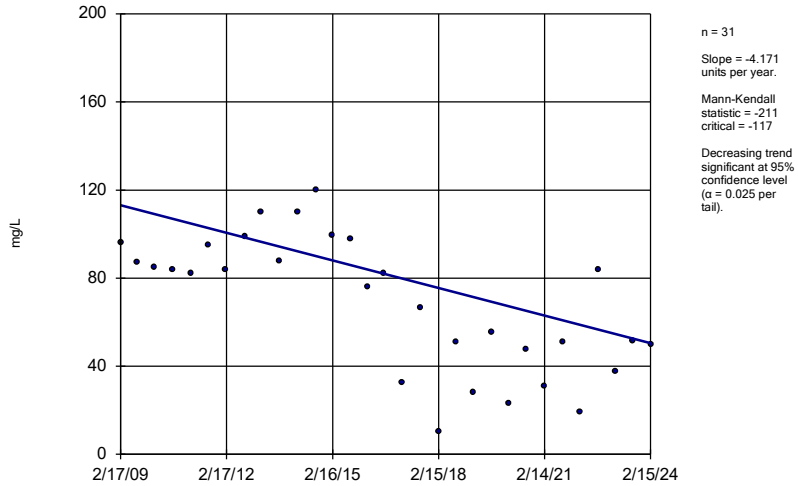


Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-17

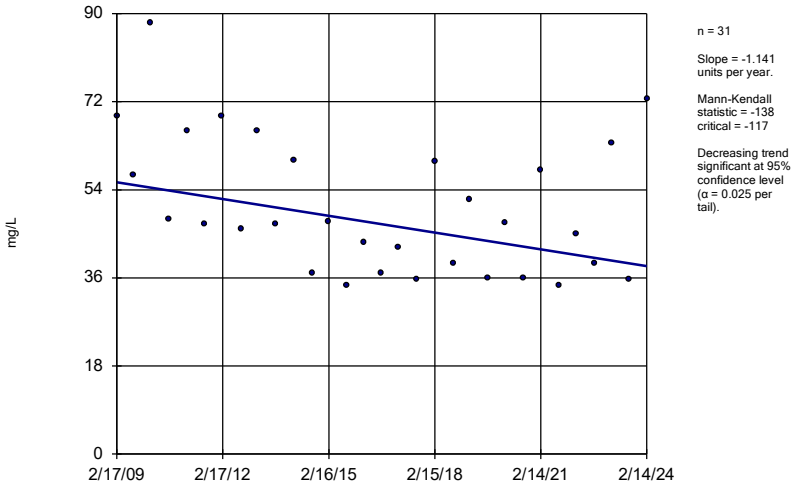


Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-2R

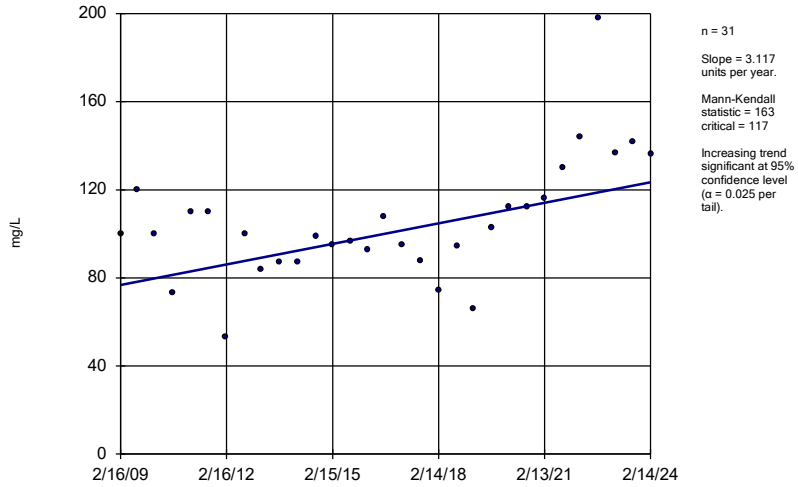


Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

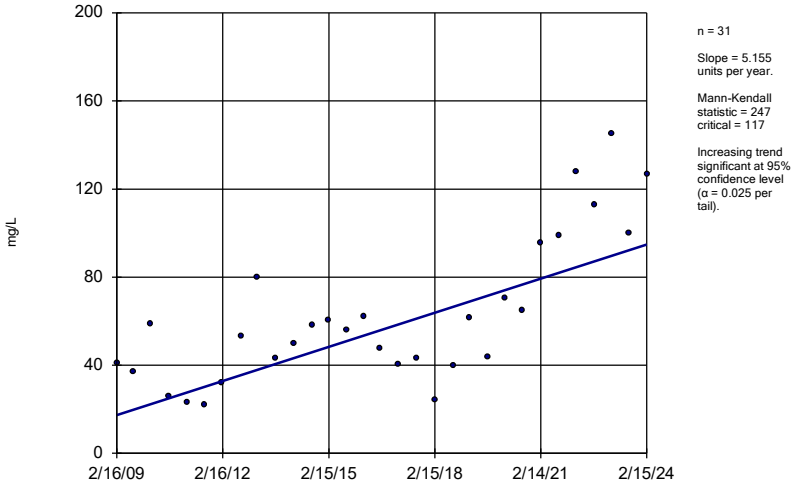
MW-3D



Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



n = 31

Slope = 5.155 units per year.

Mann-Kendall statistic = 247
critical = 117

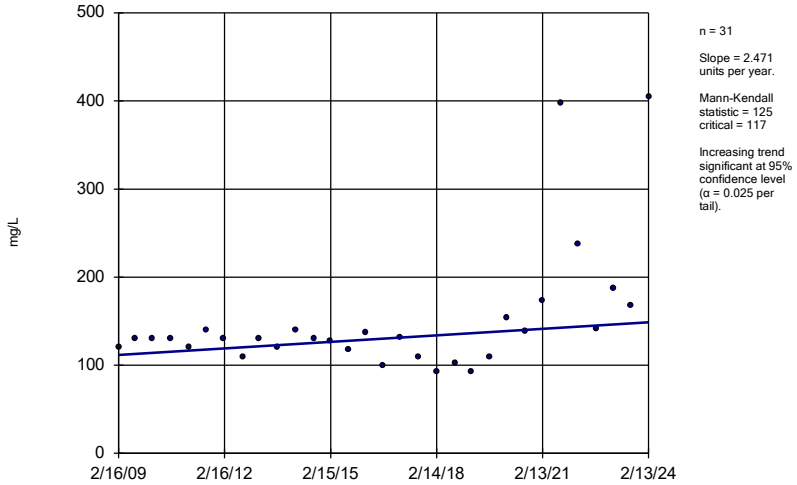
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3S



n = 31

Slope = 2.471 units per year.

Mann-Kendall statistic = 125
critical = 117

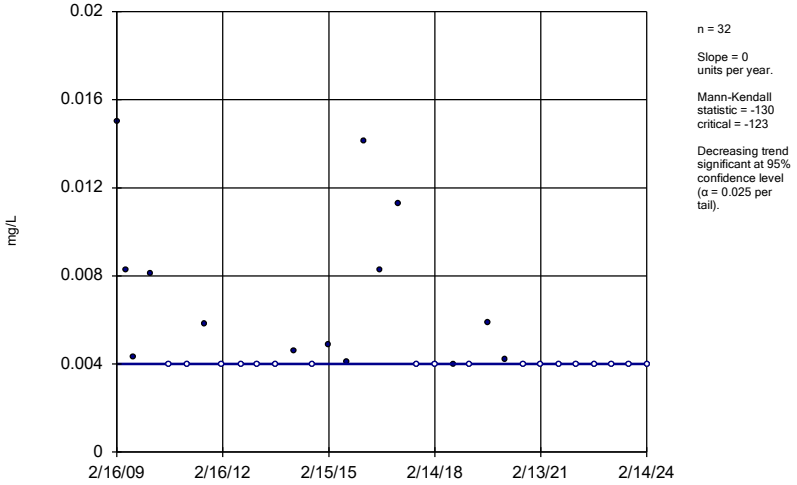
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Sodium Analysis Run 3/14/2024 10:07 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = 0 units per year.

Mann-Kendall statistic = -130
critical = -123

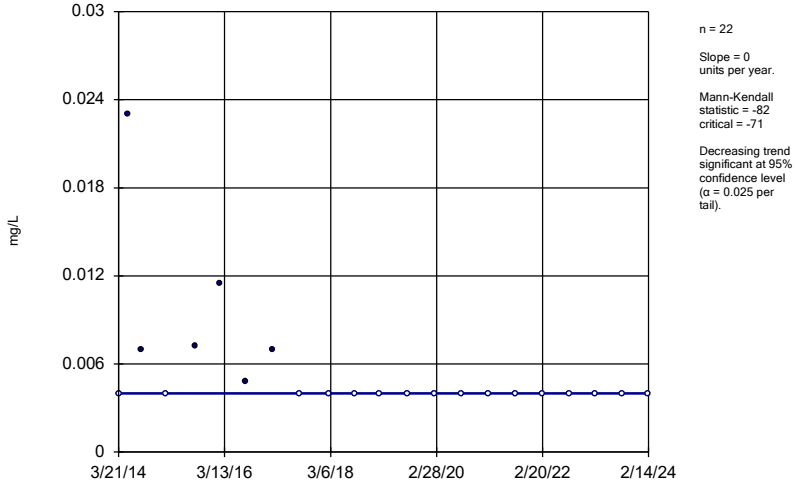
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Zinc Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -82
critical = -71

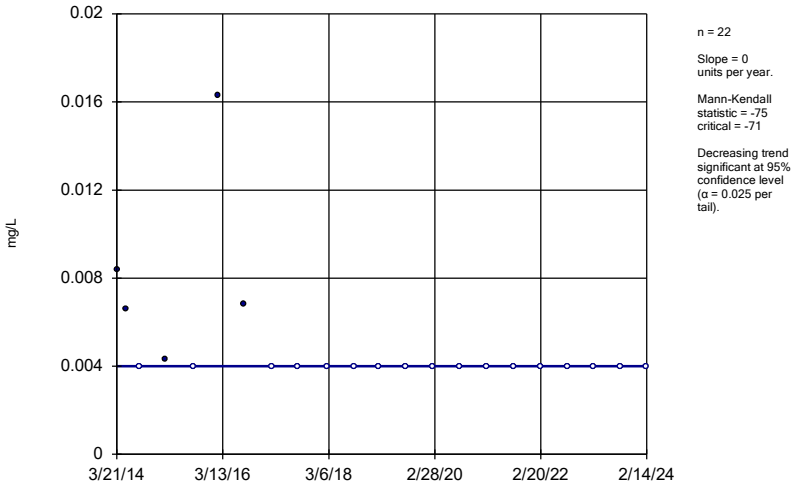
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Zinc Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -75
critical = -71

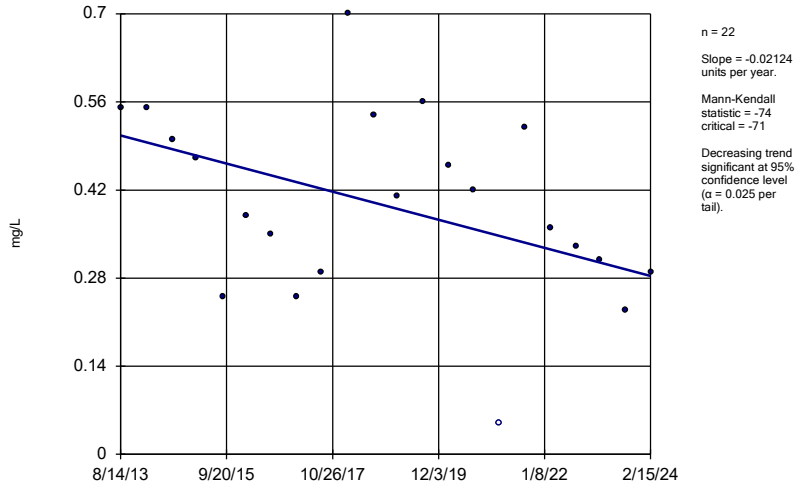
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Dissolved Zinc Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-3DR



n = 22

Slope = -0.02124
units per year.

Mann-Kendall
statistic = -74
critical = -71

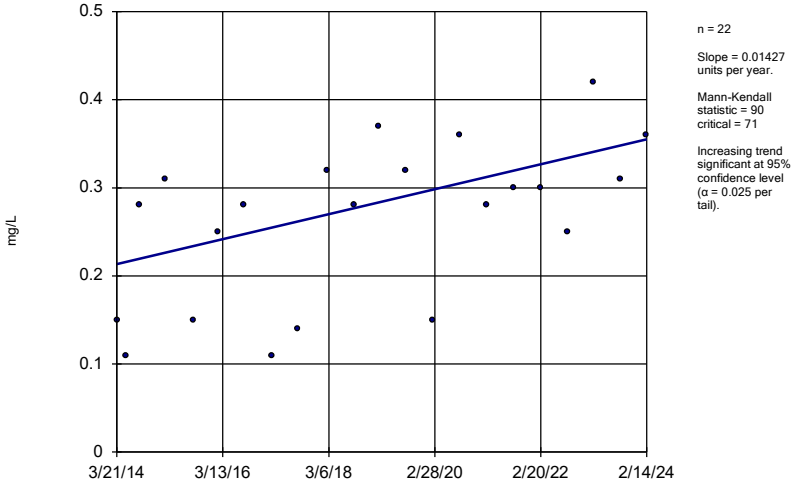
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Fluoride Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = 0.01427
units per year.

Mann-Kendall
statistic = 90
critical = 71

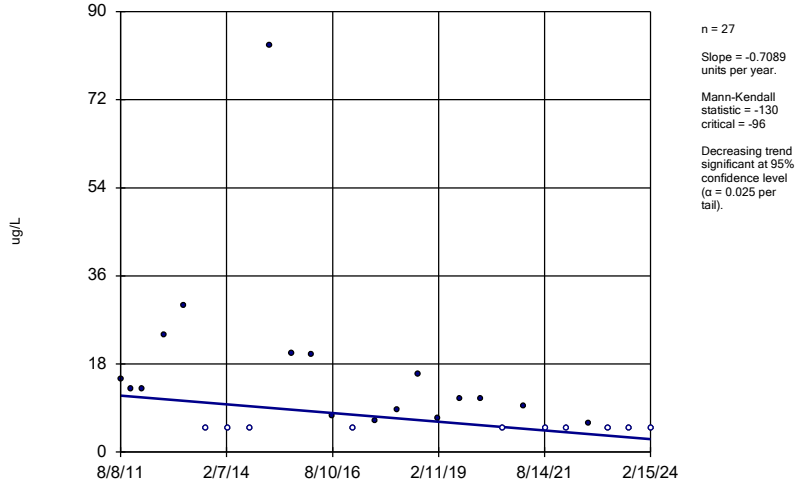
Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Fluoride Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 27

Slope = -0.7089
units per year.

Mann-Kendall
statistic = -130
critical = -96

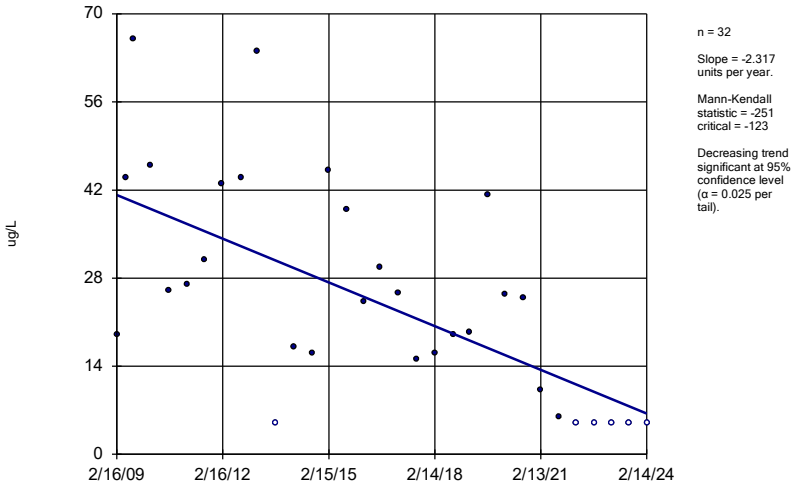
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lead [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -2.317 units per year.

Mann-Kendall statistic = -251
critical = -123

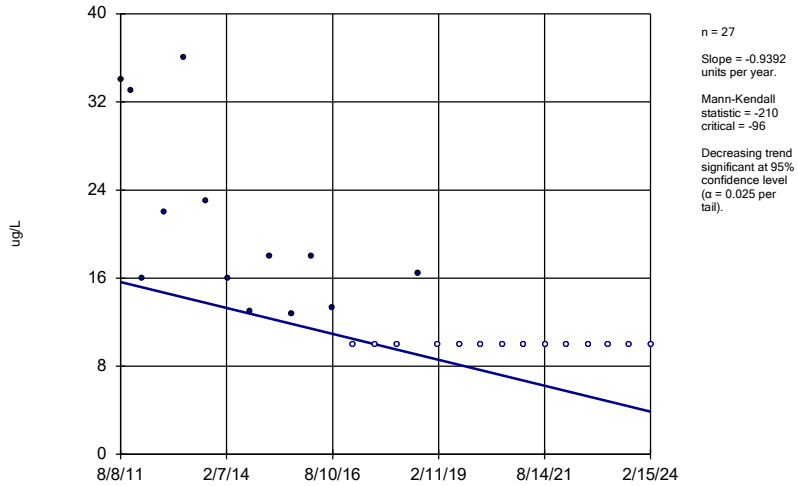
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lead [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 27

Slope = -0.9392 units per year.

Mann-Kendall statistic = -210
critical = -96

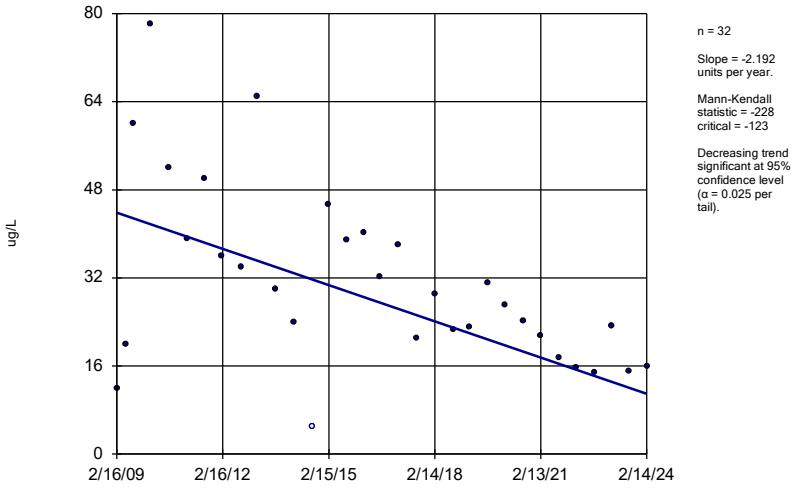
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -2.192 units per year.

Mann-Kendall statistic = -228
critical = -123

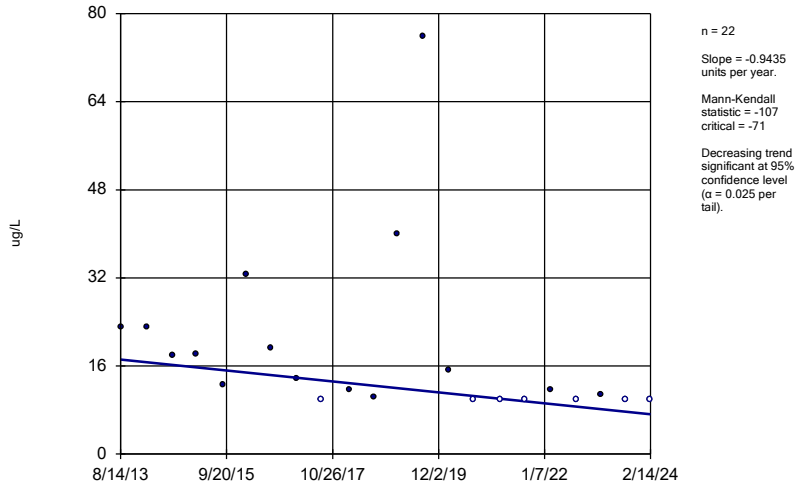
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2R



n = 22

Slope = -0.9435 units per year.

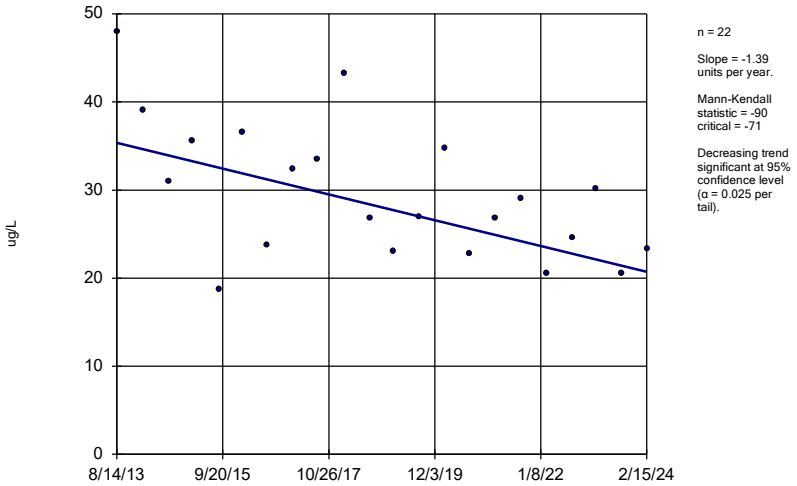
Mann-Kendall statistic = -107
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-3DR



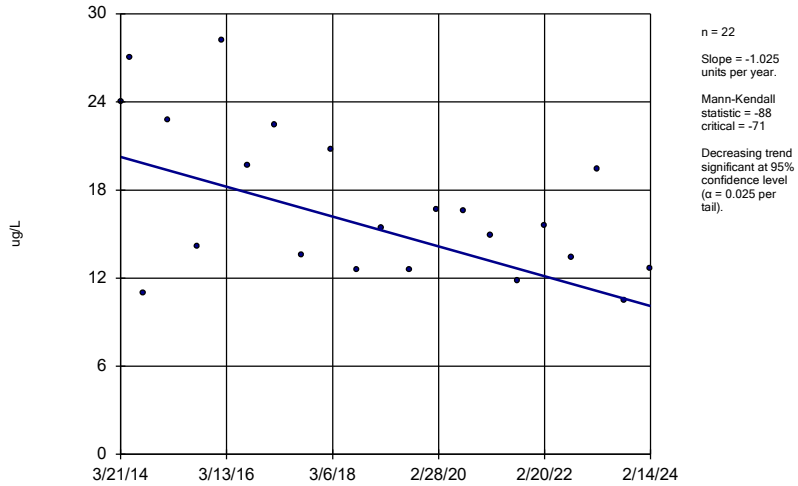
Constituent: Lithium [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



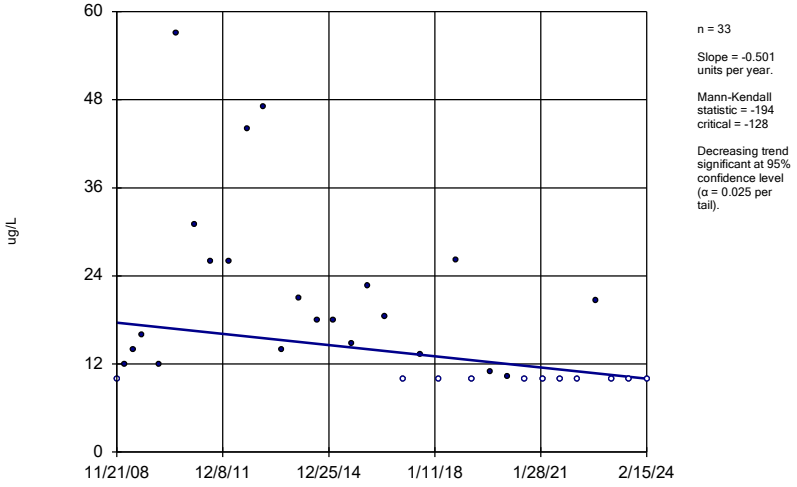
Constituent: Lithium [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



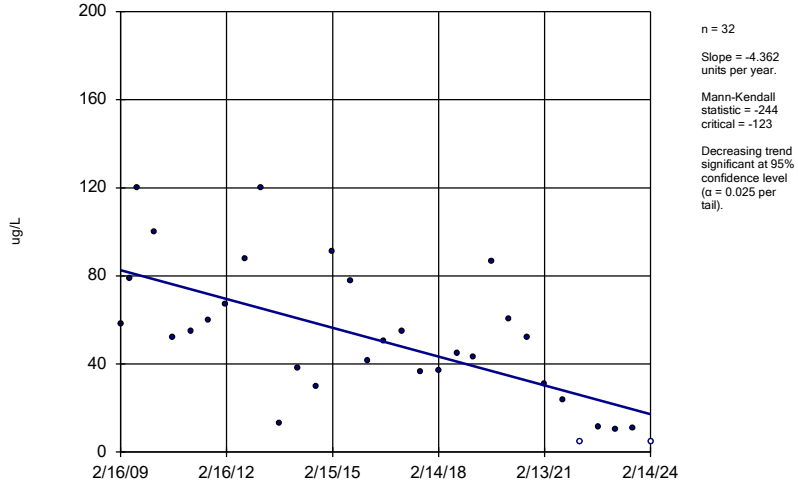
Constituent: Nickel [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



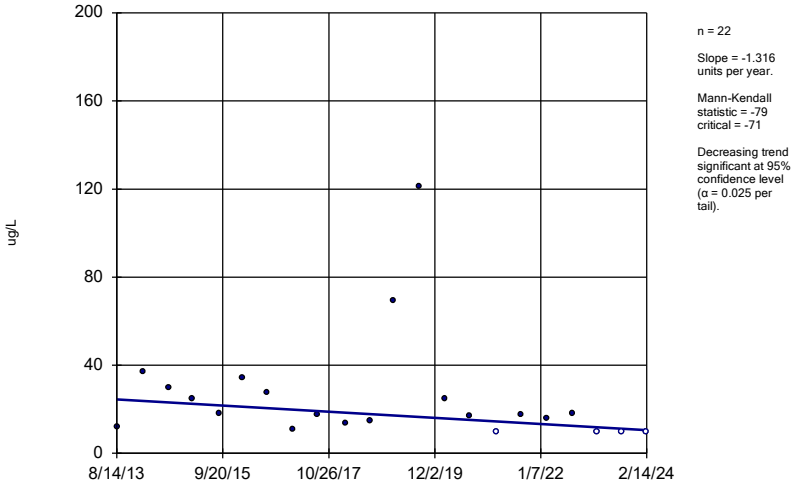
Constituent: Nickel [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2R



n = 22

Slope = -1.316 units per year.

Mann-Kendall statistic = -79
critical = -71

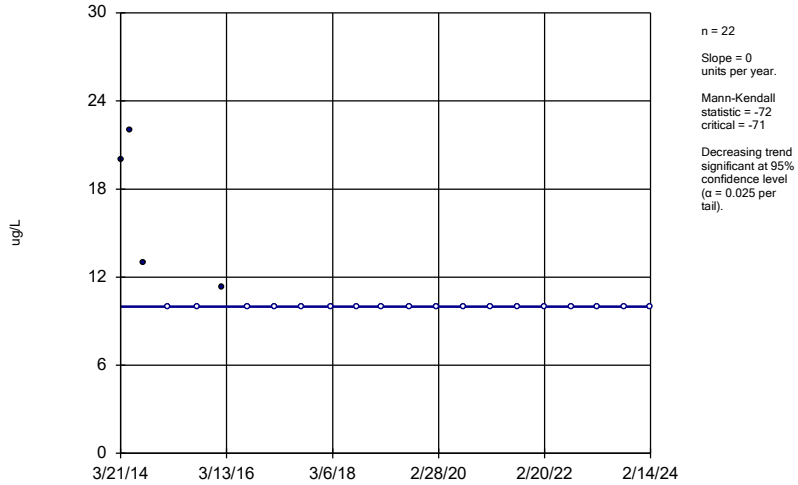
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Nickel [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -72
critical = -71

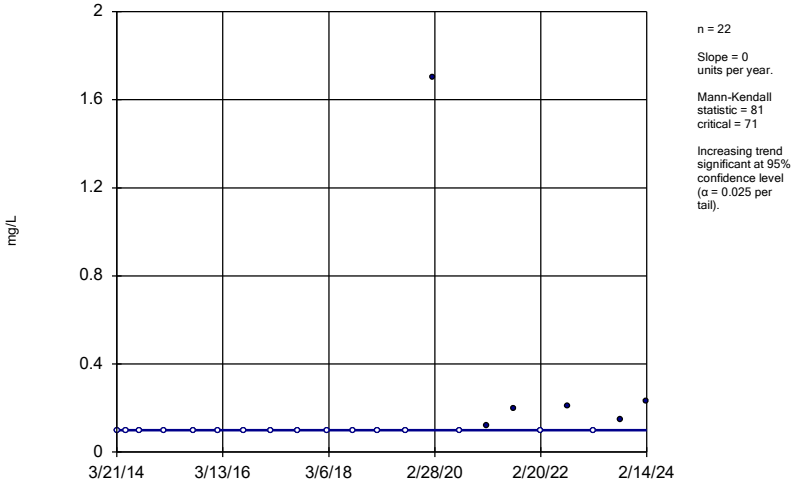
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Nickel [Total] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 81
critical = 71

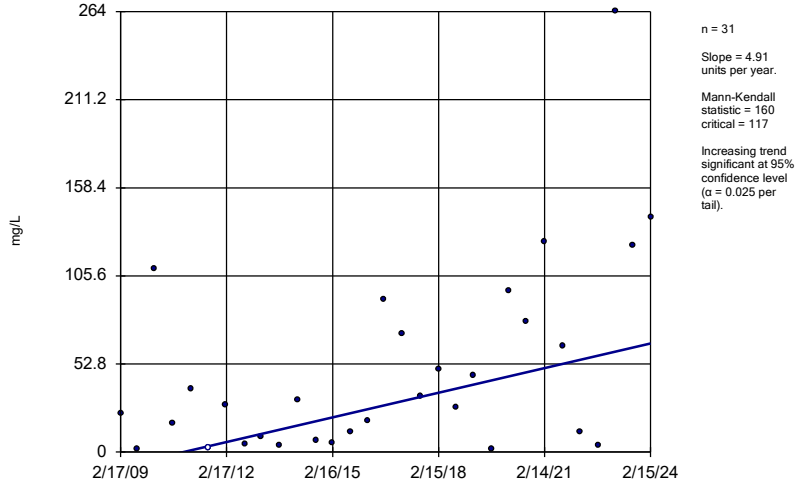
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Nitrate [as N] Analysis Run 3/14/2024 10:08 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-16



n = 31

Slope = 4.91 units per year.

Mann-Kendall statistic = 160
critical = 117

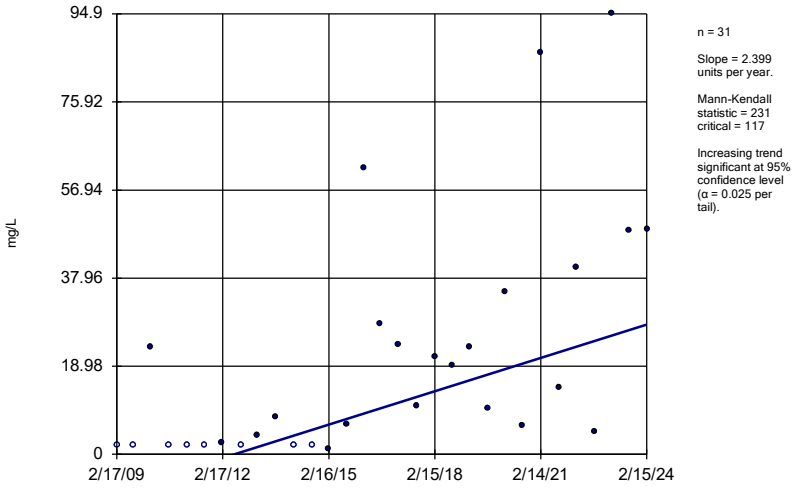
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 31

Slope = 2.399 units per year.

Mann-Kendall statistic = 231
critical = 117

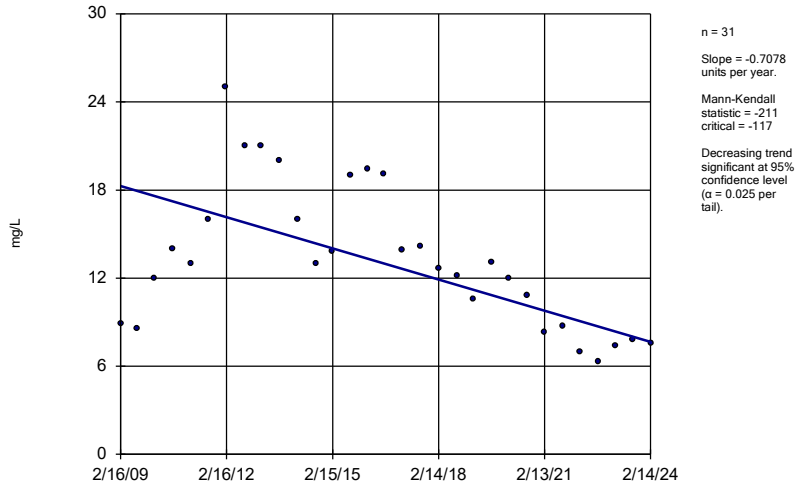
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-18



n = 31

Slope = -0.7078 units per year.

Mann-Kendall statistic = -211
critical = -117

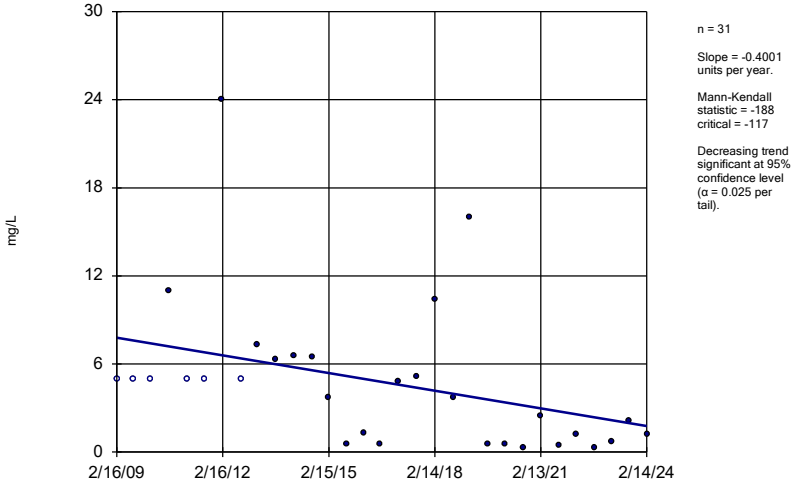
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-3D



n = 31

Slope = -0.4001 units per year.

Mann-Kendall statistic = -188
critical = -117

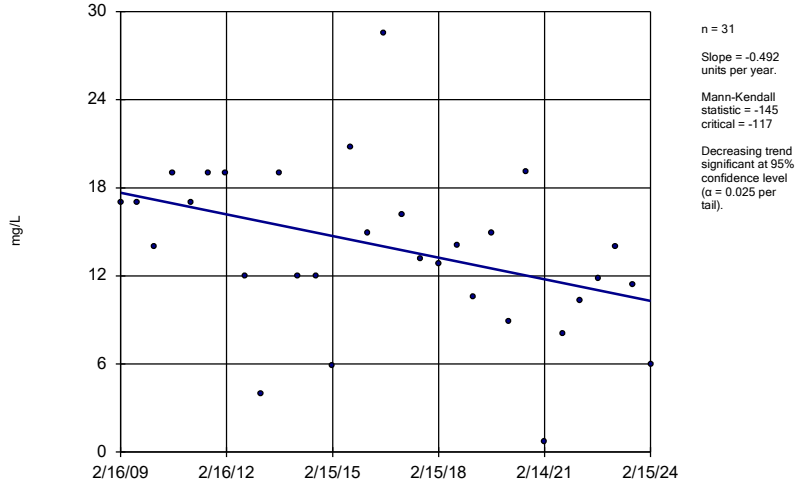
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-3DR



n = 31

Slope = -0.492 units per year.

Mann-Kendall statistic = -145
critical = -117

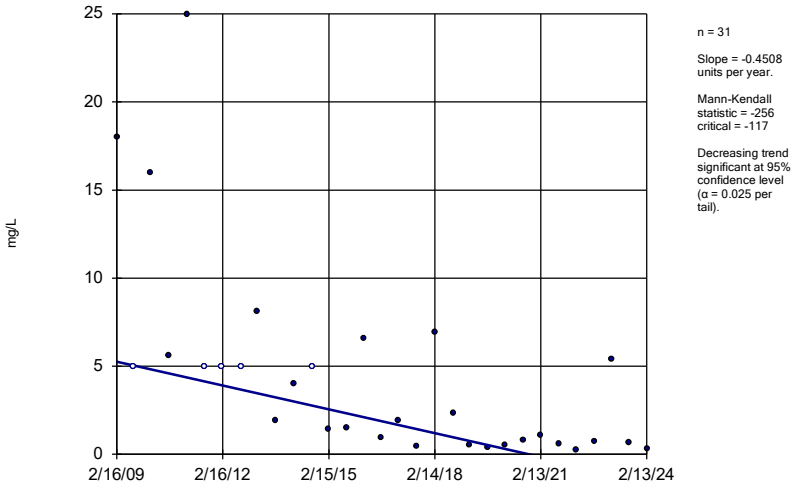
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-3S



n = 31

Slope = -0.4508 units per year.

Mann-Kendall statistic = -256
critical = -117

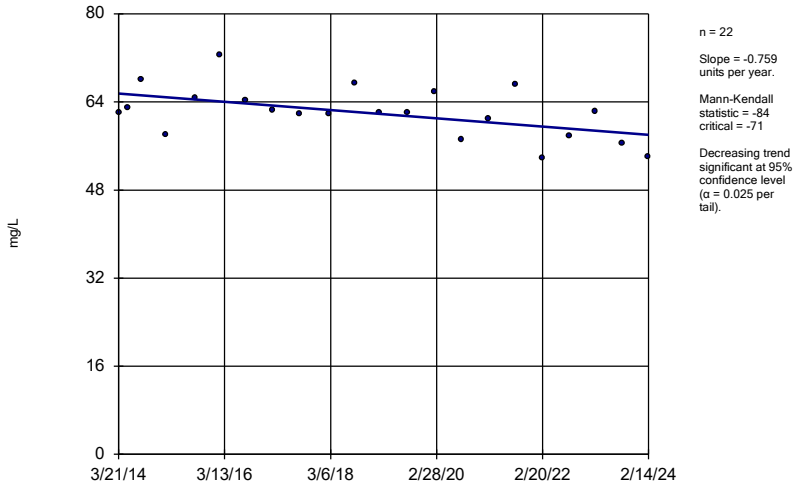
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = -0.759 units per year.

Mann-Kendall statistic = -84
critical = -71

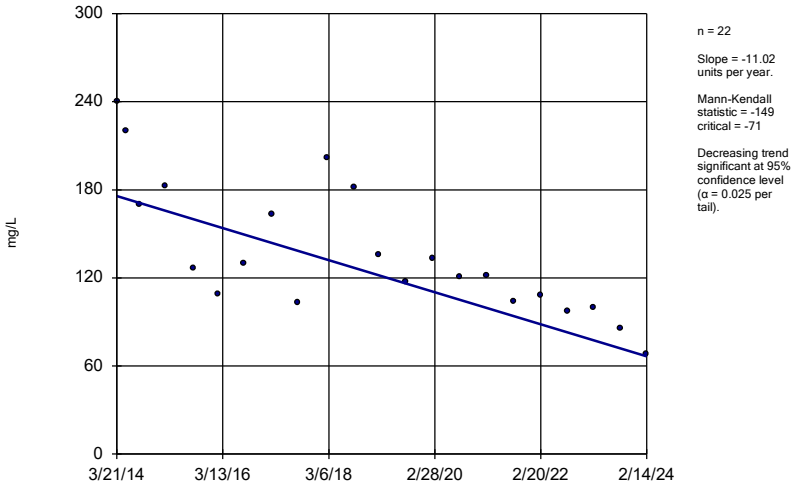
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

SP-2 (bg)



n = 22

Slope = -11.02 units per year.

Mann-Kendall statistic = -149
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

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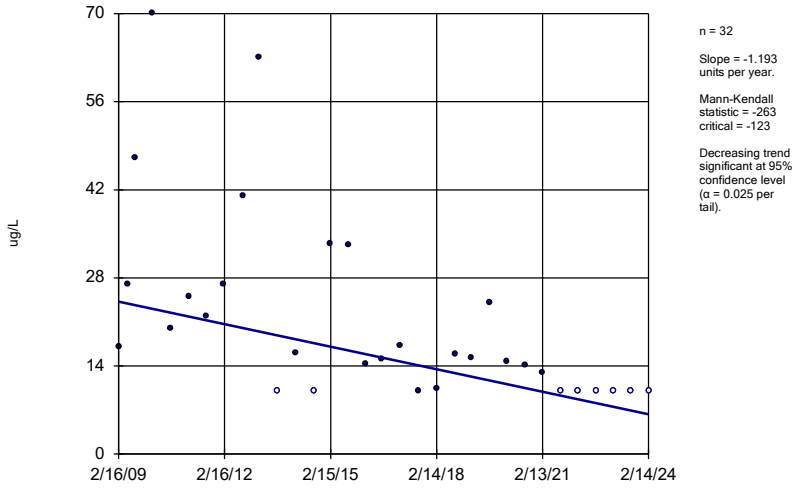
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -1.193 units per year.

Mann-Kendall statistic = -263
critical = -123

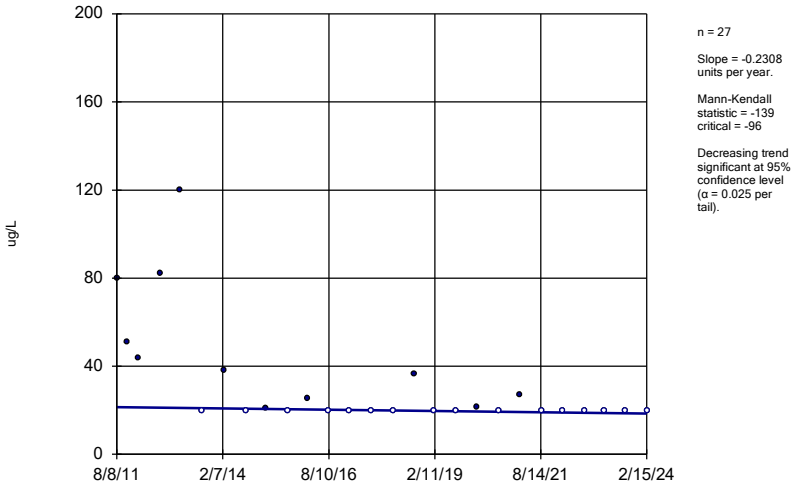
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Vanadium [Total] Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-17



n = 27

Slope = -0.2308 units per year.

Mann-Kendall statistic = -139
critical = -96

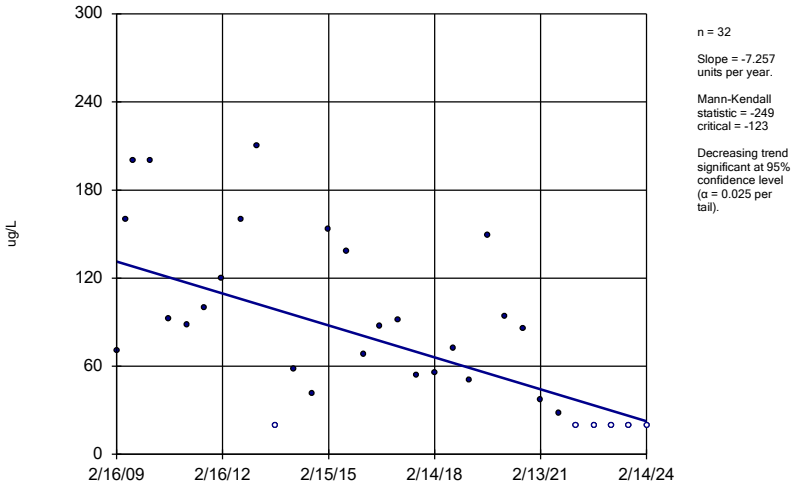
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Zinc [Total] Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-18



n = 32

Slope = -7.257 units per year.

Mann-Kendall statistic = -249
critical = -123

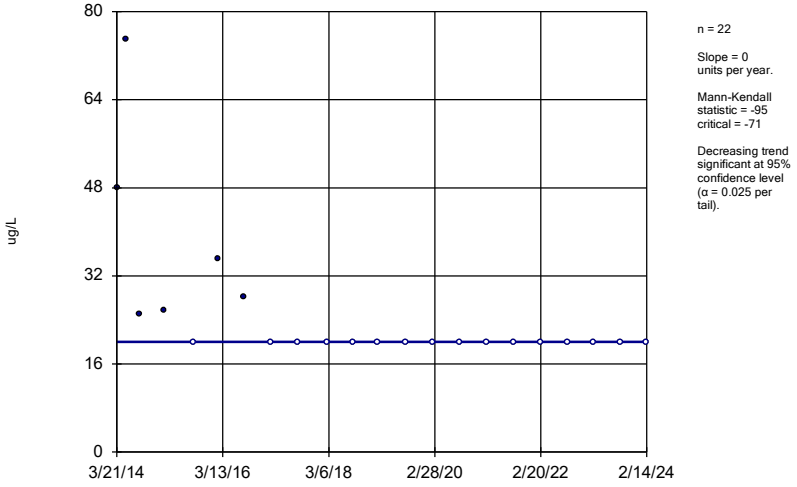
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Zinc [Total] Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

SP-1 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -95
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Zinc [Total] Analysis Run 3/14/2024 10:09 AM View: West CA Stats
Wabash Valley LF Client: Republic Data: WV0810

APPENDIX 4

SOUTH OF TRACKS DETECTION/ ASSESSMENT
WELL STATISTICAL OUTPUT

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 12:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
1,4-Dichlorobenzene (ug/L)	MW-19D	0	0	85	No	25	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-19S	0	0	85	No	25	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-20	0	0	85	No	25	100	n/a	n/a	0.05	NP
1,4-Dichlorobenzene (ug/L)	MW-21	0	0	85	No	25	100	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	MW-19D	0.003511	55	106	No	29	3.448	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	MW-19S	0.1279	54	106	No	29	0	n/a	n/a	0.05	NP
Ammonia-N (mg/L)	**MW-20**	**-0.4432**	**-241**	**-106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Ammonia-N (mg/L)	MW-21	0	0	106	No	29	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Antimony-Total (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	MW-19D	0	-26	-53	No	18	83.33	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	**MW-19S**	**1.194**	**86**	**71**	**Yes**	**22**	**18.18**	**n/a**	**n/a**	**0.05**	**NP**
Arsenic-Total (ug/L)	MW-20	6.969	66	106	No	29	3.448	n/a	n/a	0.05	NP
Arsenic-Total (ug/L)	MW-21	0	-89	-101	No	28	57.14	n/a	n/a	0.05	NP
Barium [Total] (ug/L)	**MW-19D**	**1.33**	**174**	**106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-19S**	**-16.77**	**-180**	**-106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-20**	**-22.03**	**-181**	**-106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Barium [Total] (ug/L)	**MW-21**	**6.321**	**163**	**106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Benzene (ug/L)	MW-19D	0	0	101	No	28	100	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-19S	0	0	101	No	28	100	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Benzene (ug/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Beryllium [Total] (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cadmium [Total] (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Chloride (mg/L)	MW-19D	0.08348	26	106	No	29	0	n/a	n/a	0.05	NP
Chloride (mg/L)	MW-19S	-0.3465	-16	-106	No	29	0	n/a	n/a	0.05	NP
Chloride (mg/L)	MW-20	-3.113	-95	-106	No	29	0	n/a	n/a	0.05	NP
Chloride (mg/L)	**MW-21**	**4.163**	**194**	**106**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Chlorobenzene (ug/L)	MW-19D	0	0	96	No	27	100	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	MW-19S	0	0	96	No	27	100	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Chlorobenzene (ug/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Chromium [Total] (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-19S	0	-11	-96	No	27	81.48	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cobalt [Total] (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 12:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Copper [Total] (ug/L)	MW-20	0	-17	-49	No	17	82.35	n/a	n/a	0.05	NP
Copper [Total] (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Cyanide (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-19D	0	-5	-101	No	28	92.86	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-19S	0	-27	-101	No	28	92.86	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-20	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Antimony (mg/L)	MW-21	0	-27	-101	No	28	92.86	n/a	n/a	0.05	NP
Dissolved Arsenic (mg/L)	MW-19D	-0.00...	-70	-96	No	27	14.81	n/a	n/a	0.05	NP
Dissolved Arsenic (mg/L)	**MW-19S**	**0.000...**	**138**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	**MW-20**	**0.000...**	**104**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Arsenic (mg/L)	MW-21	0	-58	-96	No	27	81.48	n/a	n/a	0.05	NP
Dissolved Barium (mg/L)	**MW-19D**	**0.000...**	**182**	**101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	**MW-19S**	**-0.01788**	**-190**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	**MW-20**	**-0.0268**	**-217**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Barium (mg/L)	**MW-21**	**0.008052**	**223**	**101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Beryllium (ug/L)	MW-19D	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-19S	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-20	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Beryllium (ug/L)	MW-21	0	NaN	NaN	No	2	100	n/a	n/a	NaN	NP
Dissolved Cadmium (mg/L)	MW-19D	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-19S	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Cadmium (mg/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	MW-19D	0.1179	37	96	No	27	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	MW-19S	-1.27	-92	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Calcium (mg/L)	**MW-20**	**-1.053**	**-110**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Calcium (mg/L)	MW-21	0	-12	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-19D	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-19S	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Chromium (mg/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	MW-19D	0	-50	-101	No	28	85.71	n/a	n/a	0.05	NP
Dissolved Cobalt (mg/L)	**MW-19S**	**-0.00...**	**-247**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	**MW-20**	**-0.00...**	**-305**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Cobalt (mg/L)	MW-21	0	-79	-101	No	28	82.14	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-19D	0.000...	91	96	No	27	48.15	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	MW-19S	-0.00...	-55	-96	No	27	25.93	n/a	n/a	0.05	NP
Dissolved Copper (mg/L)	**MW-20**	**-0.00...**	**-114**	**-96**	**Yes**	**27**	**25.93**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Copper (mg/L)	MW-21	0	21	96	No	27	18.52	n/a	n/a	0.05	NP
Dissolved Iron (mg/L)	**MW-19D**	**0.006685**	**98**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**MW-19S**	**0.1452**	**109**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	**MW-20**	**-0.09911**	**-122**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Iron (mg/L)	MW-21	0	18	96	No	27	96.3	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-19D	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-19S	0	0	12	No	6	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Lead (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 12:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Lithium (mg/L)	MW-19D	-0.00...	-93	-101	No	28	0	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	MW-19S	-0.00...	-85	-101	No	28	0	n/a	n/a	0.05	NP
Dissolved Lithium (mg/L)	**MW-20**	**-0.00...**	**-123**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Lithium (mg/L)	MW-21	-0.00...	-61	-71	No	22	50	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	MW-19D	-0.07487	-40	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	MW-19S	-0.2525	-81	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Magnesium (mg/L)	**MW-20**	**-1.131**	**-201**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Magnesium (mg/L)	MW-21	0.2003	81	96	No	27	0	n/a	n/a	0.05	NP
Dissolved Manganese (mg/L)	MW-19D	-0.00...	-3	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Manganese (mg/L)	**MW-19S**	**-0.0492**	**-235**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	**MW-20**	**-0.04724**	**-269**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Manganese (mg/L)	MW-21	0	43	96	No	27	92.59	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Mercury (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	MW-19D	0	-88	-101	No	28	64.29	n/a	n/a	0.05	NP
Dissolved Nickel (mg/L)	**MW-19S**	**-0.00...**	**-247**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Nickel (mg/L)	**MW-20**	**-0.00...**	**-298**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Nickel (mg/L)	MW-21	-0.00...	-4	-101	No	28	0	n/a	n/a	0.05	NP
Dissolved Potassium (mg/L)	**MW-19D**	**-0.03457**	**-120**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	MW-19S	0.1811	15	96	No	27	0	n/a	n/a	0.05	NP
Dissolved Potassium (mg/L)	**MW-20**	**-1.3**	**-178**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Potassium (mg/L)	MW-21	-0.03751	-21	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Selenium (mg/L)	MW-21	0	-31	-96	No	27	92.59	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Silver (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Sodium (mg/L)	**MW-19D**	**-0.1738**	**-154**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	MW-19S	-1.9	-74	-96	No	27	0	n/a	n/a	0.05	NP
Dissolved Sodium (mg/L)	**MW-20**	**-3.935**	**-172**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Sodium (mg/L)	**MW-21**	**0.9835**	**106**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Thallium (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	**MW-19S**	**0**	**-121**	**-96**	**Yes**	**27**	**62.96**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Thallium (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Thallium (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Tin (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Vanadium (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Dissolved Zinc (mg/L)	MW-19S	0	-28	-66	No	21	80.95	n/a	n/a	0.05	NP

Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 12:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Dissolved Zinc (mg/L)	**MW-20**	**-0.00...**	**-145**	**-96**	**Yes**	**27**	**62.96**	**n/a**	**n/a**	**0.05**	**NP**
Dissolved Zinc (mg/L)	MW-21	0	-41	-96	No	27	92.59	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-19D	-0.00...	-54	-106	No	29	0	n/a	n/a	0.05	NP
Fluoride (mg/L)	MW-19S	0.001133	28	101	No	28	3.571	n/a	n/a	0.05	NP
Fluoride (mg/L)	**MW-20**	**0.004997**	**107**	**106**	**Yes**	**29**	**3.448**	**n/a**	**n/a**	**0.05**	**NP**
Fluoride (mg/L)	MW-21	0	-13	-106	No	29	3.448	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	MW-19D	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	MW-19S	0	0	12	No	6	100	n/a	n/a	0.05	NP
Lead [Total] (ug/L)	**MW-20**	**-0.2443**	**-103**	**-101**	**Yes**	**28**	**25**	**n/a**	**n/a**	**0.05**	**NP**
Lead [Total] (ug/L)	**MW-21**	**0**	**-109**	**-101**	**Yes**	**28**	**71.43**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	MW-19D	-0.2216	-40	-101	No	28	0	n/a	n/a	0.05	NP
Lithium [Total] (ug/L)	MW-19S	-0.4993	-75	-101	No	28	0	n/a	n/a	0.05	NP
Lithium [Total] (ug/L)	**MW-20**	**-0.7305**	**-103**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium [Total] (ug/L)	MW-21	0	-25	-71	No	22	45.45	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Mercury [Total] (ug/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Nickel [Total] (ug/L)	MW-19D	0	0	12	No	6	100	n/a	n/a	0.05	NP
Nickel [Total] (ug/L)	**MW-19S**	**-1.314**	**-219**	**-96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	**MW-20**	**-1.378**	**-202**	**-96**	**Yes**	**27**	**7.407**	**n/a**	**n/a**	**0.05**	**NP**
Nickel [Total] (ug/L)	MW-21	0	-53	-96	No	27	33.33	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-19D	0	-1	-12	No	6	83.33	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-19S	0	-1	-12	No	6	83.33	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	MW-20	0	-18	-101	No	28	89.29	n/a	n/a	0.05	NP
Nitrate [as N] (mg/L)	**MW-21**	**-0.09705**	**-185**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Selenium [Total] (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Selenium [Total] (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Silver [Total] (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Sulfate (mg/L)	MW-19D	-0.03092	-22	-101	No	28	0	n/a	n/a	0.05	NP
Sulfate (mg/L)	**MW-19S**	**0.622**	**171**	**101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-20**	**0.3626**	**130**	**101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfate (mg/L)	**MW-21**	**-1.896**	**-168**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Sulfide (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Sulfide (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Thallium [Total] (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Tin [Total] (mg/L)	MW-21	0	0	10	No	5	100	n/a	n/a	0.05	NP

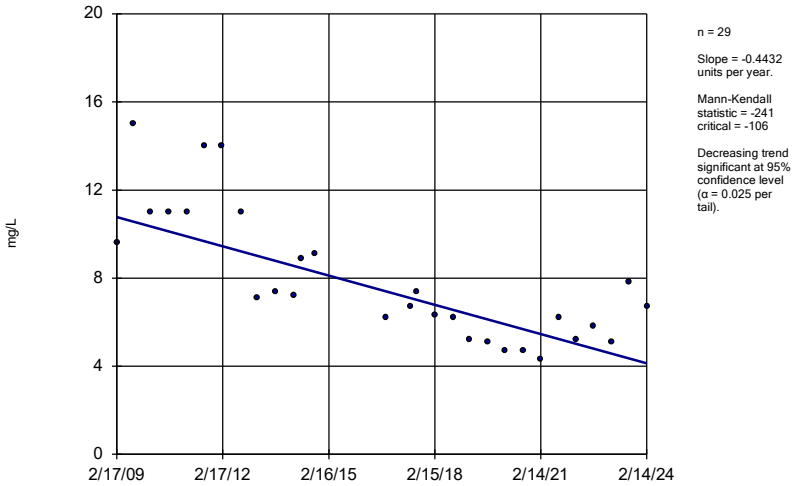
Trend Test

Wabash Valley LF Client: Republic Data: WV0810 Printed 3/14/2024, 12:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Toluene (ug/L)	MW-19D	0	0	96	No	27	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-19S	0	0	96	No	27	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Toluene (ug/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-19D	0	-6	-90	No	26	88.46	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-19S	0	-54	-90	No	26	84.62	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-20	0	-77	-90	No	26	76.92	n/a	n/a	0.05	NP
Total phenolics (mg/L)	MW-21	0	-35	-90	No	26	84.62	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-19D	0	0	96	No	27	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-19S	0	0	96	No	27	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-20	0	0	96	No	27	100	n/a	n/a	0.05	NP
Total Xylenes (ug/L)	MW-21	0	0	96	No	27	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-19S	0	0	10	No	5	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-20	0	0	10	No	5	100	n/a	n/a	0.05	NP
Vanadium [Total] (ug/L)	MW-21	0	-68	-96	No	27	81.48	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-19D	0	0	10	No	5	100	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-19S	0	-5	-30	No	12	91.67	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-20	-0.4642	-58	-66	No	21	42.86	n/a	n/a	0.05	NP
Zinc [Total] (ug/L)	MW-21	0	-95	-96	No	27	70.37	n/a	n/a	0.05	NP

Sen's Slope Estimator

MW-20



n = 29

Slope = -0.4432 units per year.

Mann-Kendall statistic = -241
critical = -106

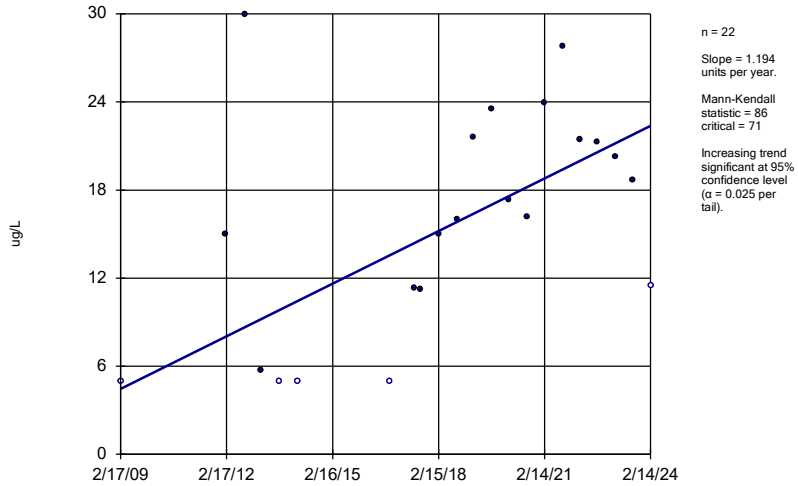
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Ammonia-N Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 22

Slope = 1.194 units per year.

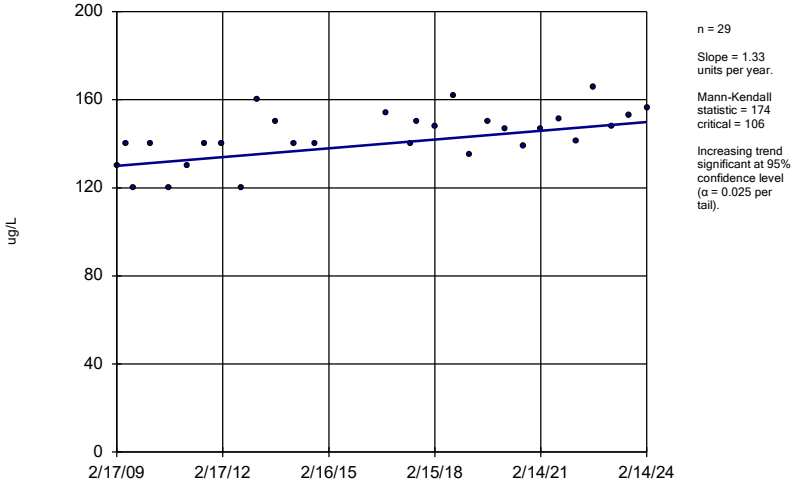
Mann-Kendall statistic = 86
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic-Total Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-19D



n = 29

Slope = 1.33 units per year.

Mann-Kendall statistic = 174
critical = 106

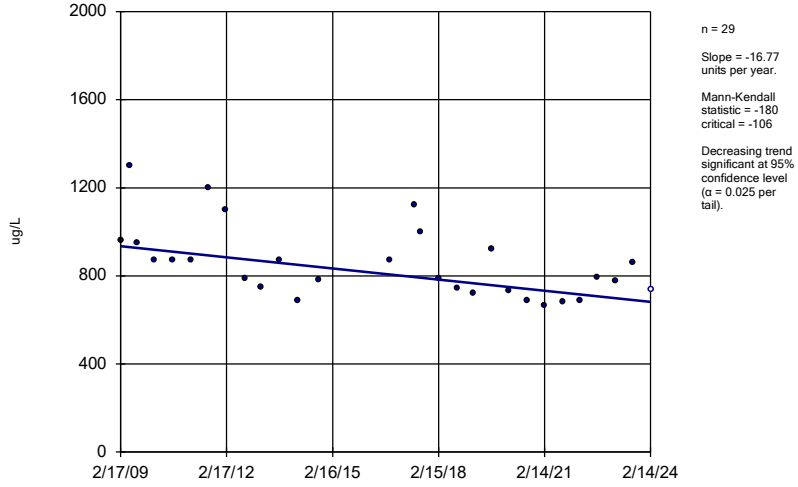
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 29

Slope = -16.77 units per year.

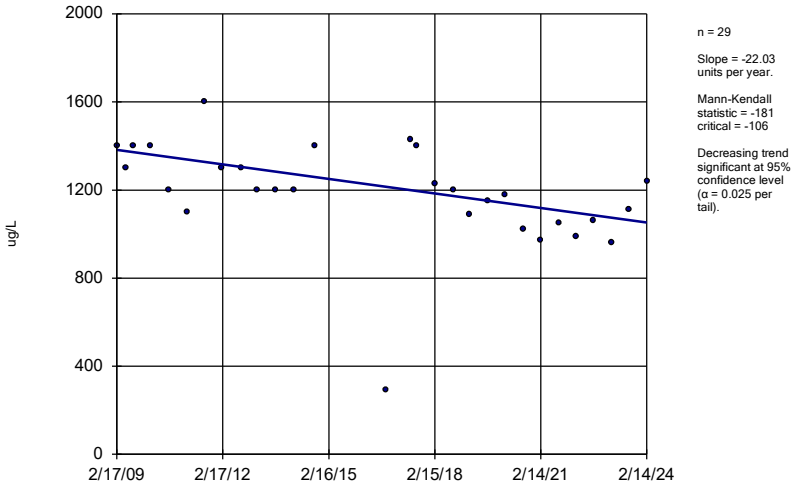
Mann-Kendall statistic = -180
critical = -106

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 29

Slope = -22.03 units per year.

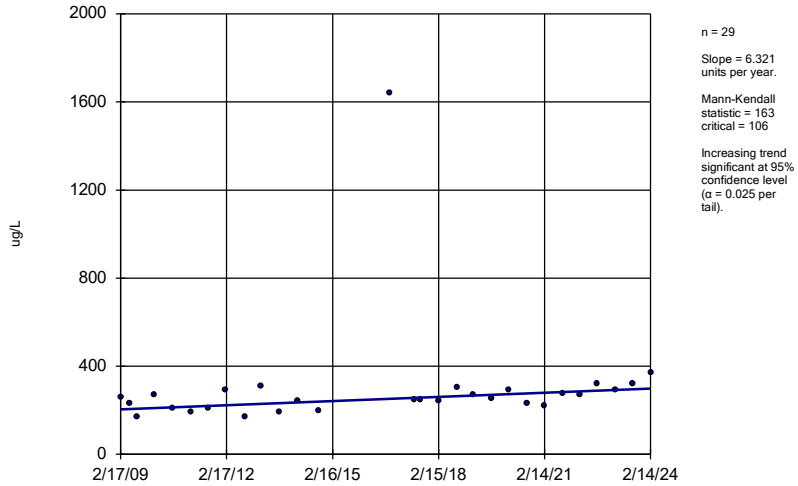
Mann-Kendall statistic = -181
critical = -106

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-21



n = 29

Slope = 6.321 units per year.

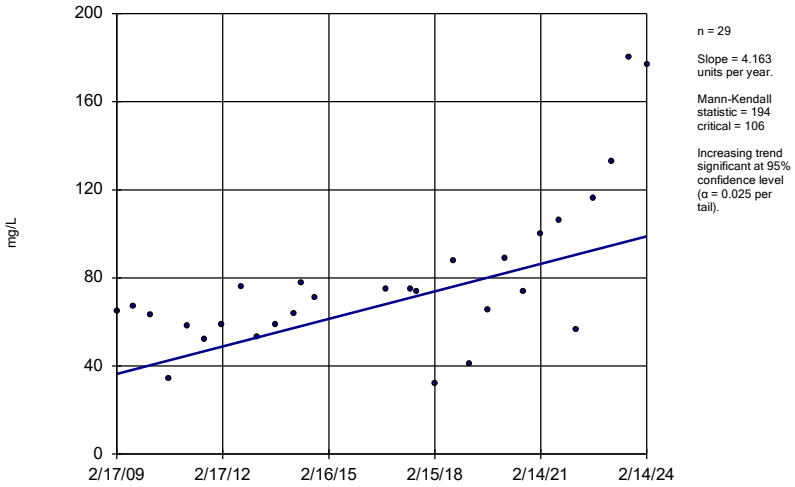
Mann-Kendall statistic = 163
critical = 106

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium [Total] Analysis Run 3/14/2024 11:55 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-21



n = 29

Slope = 4.163 units per year.

Mann-Kendall statistic = 194
critical = 106

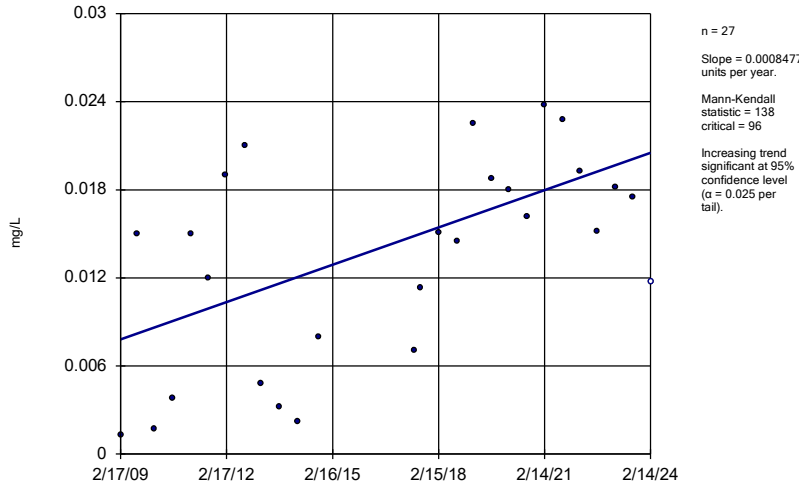
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Chloride Analysis Run 3/14/2024 11:56 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 27

Slope = 0.0008477 units per year.

Mann-Kendall statistic = 138
critical = 96

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 11:56 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

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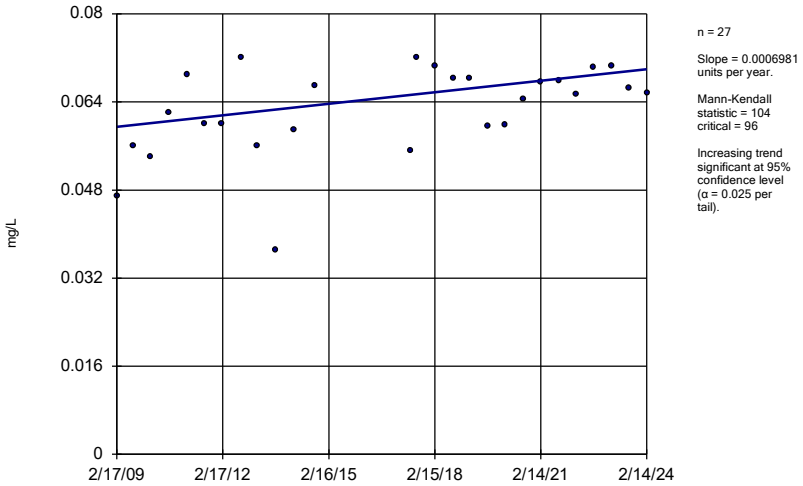
Sen's Slope Estimator

MW-20



n = 27

Slope = 0.0006981 units per year.

Mann-Kendall statistic = 104
critical = 96

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Arsenic Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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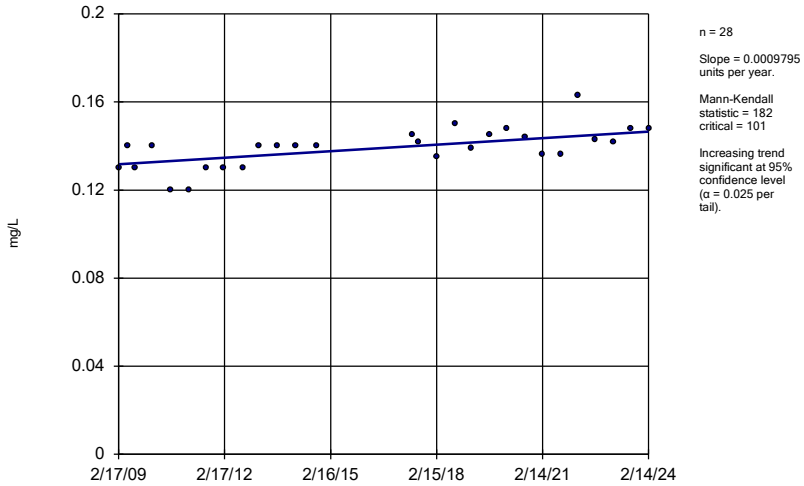
Sen's Slope Estimator

MW-19D



n = 28

Slope = 0.0009795 units per year.

Mann-Kendall statistic = 182
critical = 101

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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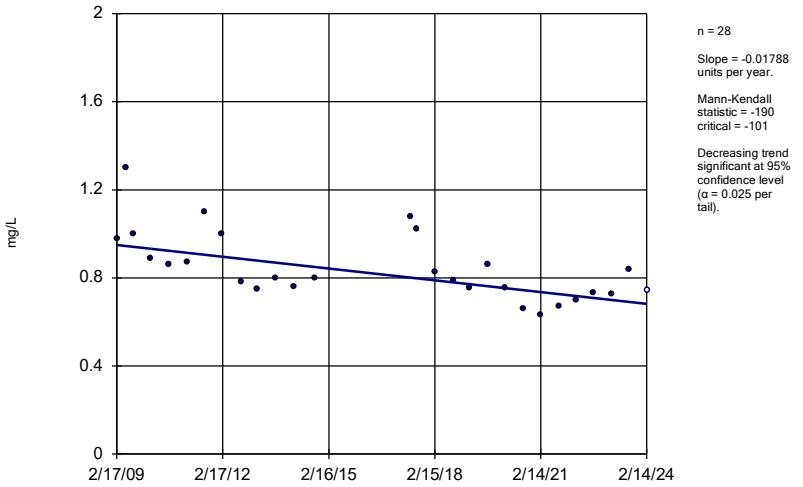
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 28

Slope = -0.01788 units per year.

Mann-Kendall statistic = -190
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

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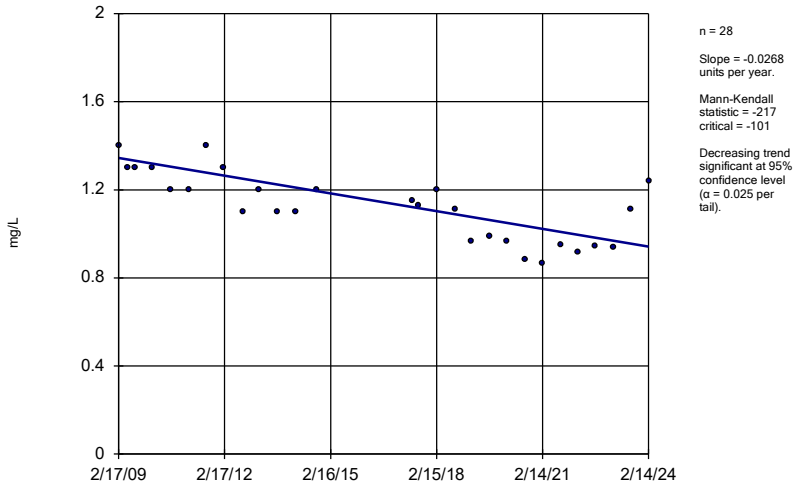
Sen's Slope Estimator

MW-20



n = 28

Slope = -0.0268 units per year.

Mann-Kendall statistic = -217
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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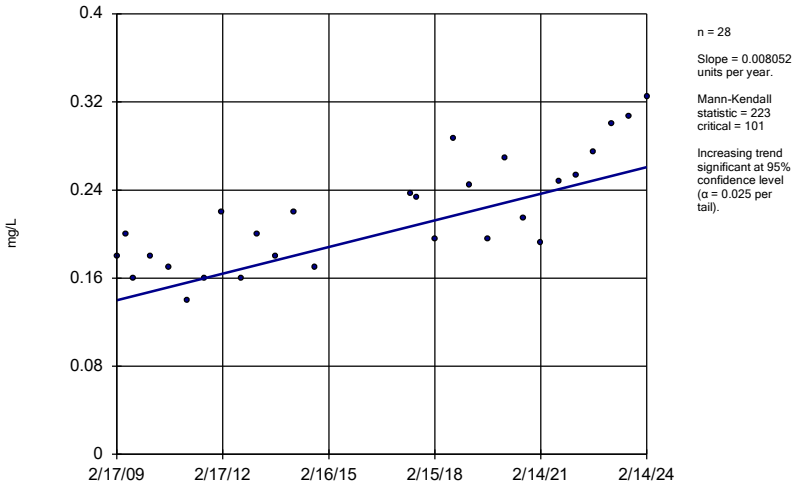
Sen's Slope Estimator

MW-21



n = 28

Slope = 0.008052 units per year.

Mann-Kendall statistic = 223
critical = 101

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Barium Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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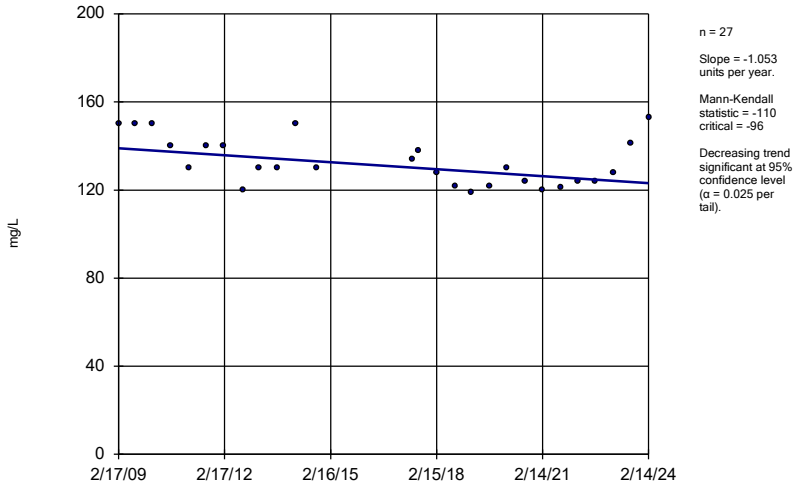
Sen's Slope Estimator

MW-20



n = 27

Slope = -1.053 units per year.

Mann-Kendall statistic = -110
critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Calcium Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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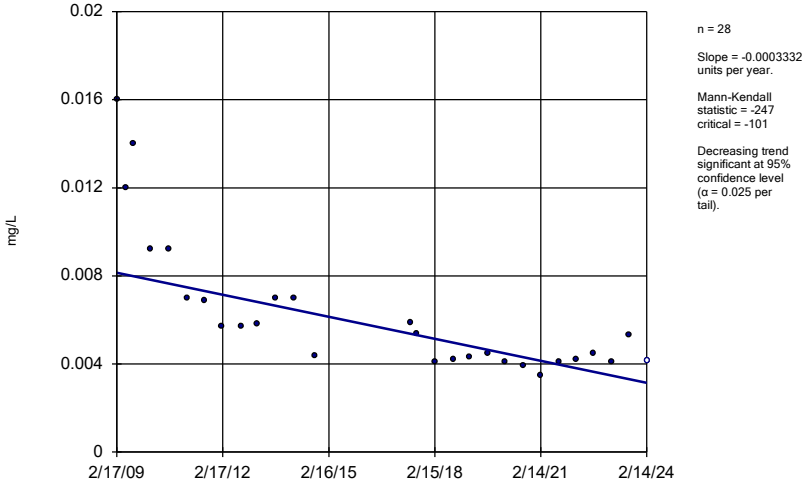
Sen's Slope Estimator

MW-19S



n = 28

Slope = -0.0003332 units per year.

Mann-Kendall statistic = -247
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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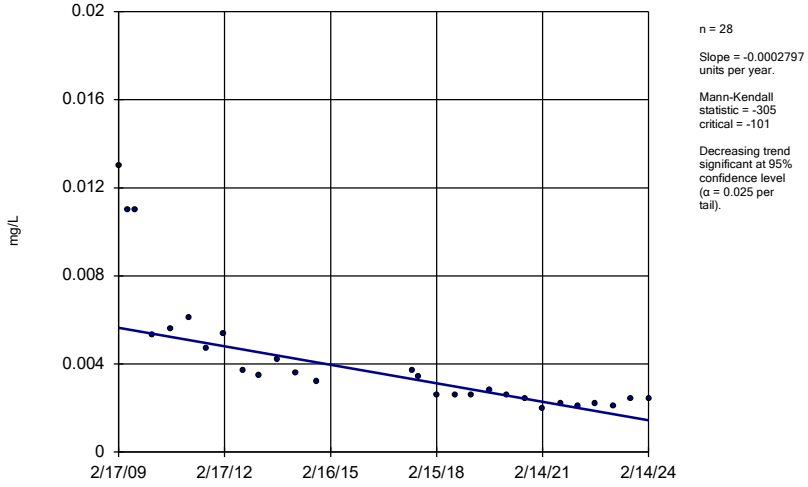
Sen's Slope Estimator

MW-20



n = 28

Slope = -0.0002797 units per year.

Mann-Kendall statistic = -305
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Cobalt Analysis Run 3/14/2024 11:56 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

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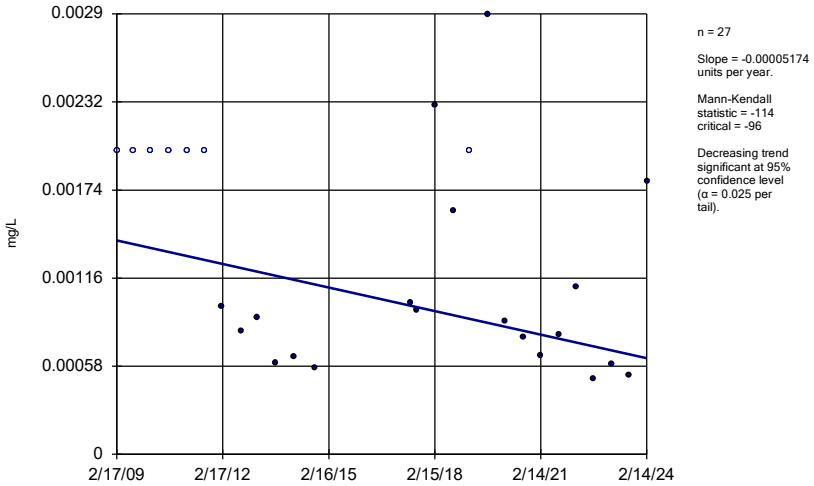
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



n = 27

Slope = -0.00005174 units per year.

Mann-Kendall statistic = -114
critical = -96

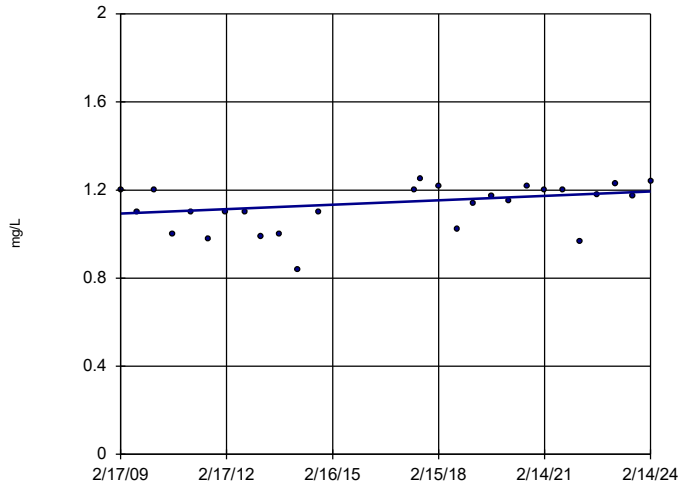
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Copper Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-19D



n = 27

Slope = 0.006685 units per year.

Mann-Kendall statistic = 98
critical = 96

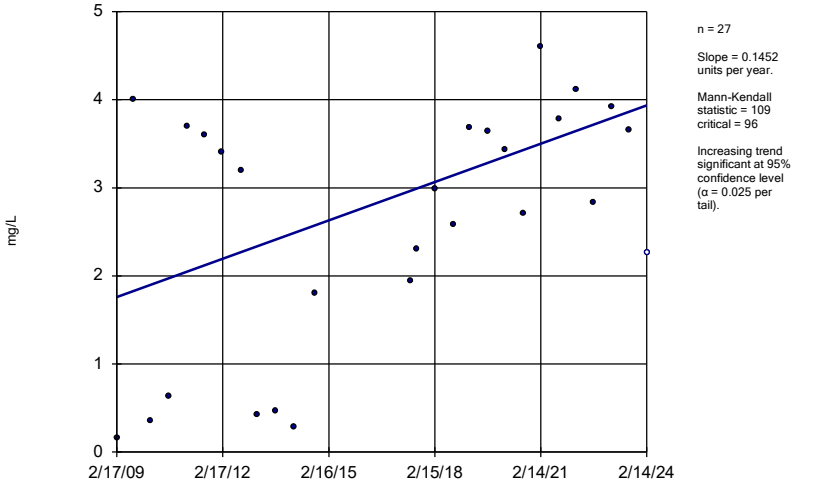
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 27

Slope = 0.1452 units per year.

Mann-Kendall statistic = 109
critical = 96

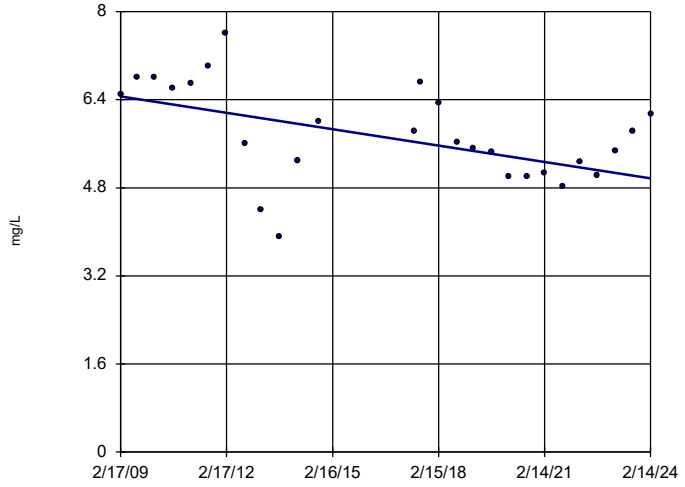
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-20



n = 27

Slope = -0.09911 units per year.

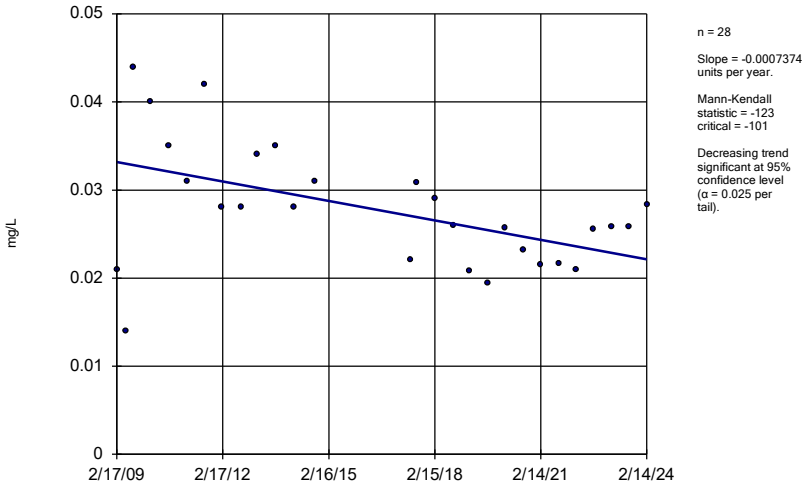
Mann-Kendall statistic = -122
critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Iron Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 28

Slope = -0.0007374 units per year.

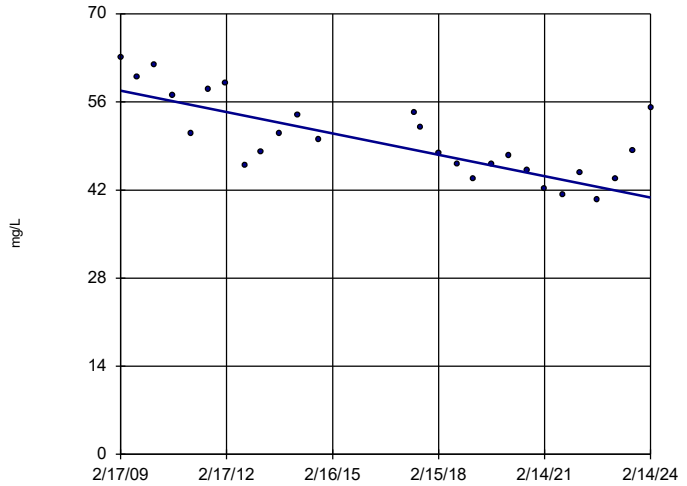
Mann-Kendall statistic = -123
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Lithium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 27

Slope = -1.131 units per year.

Mann-Kendall statistic = -201
critical = -96

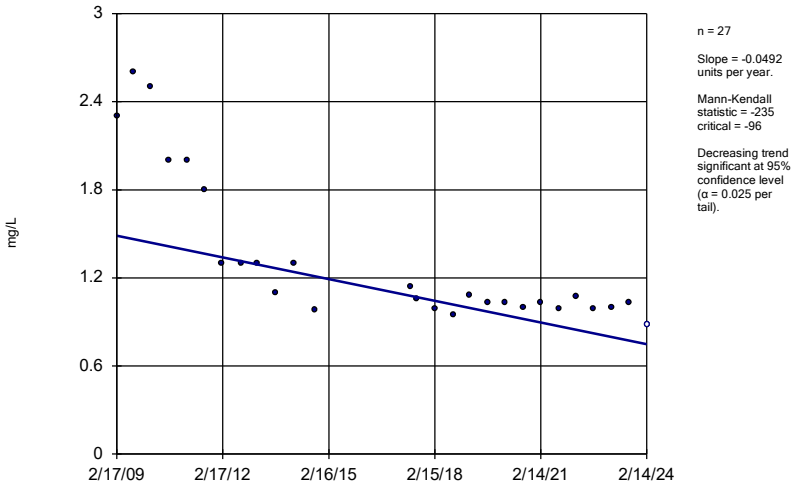
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Magnesium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 27

Slope = -0.0492 units per year.

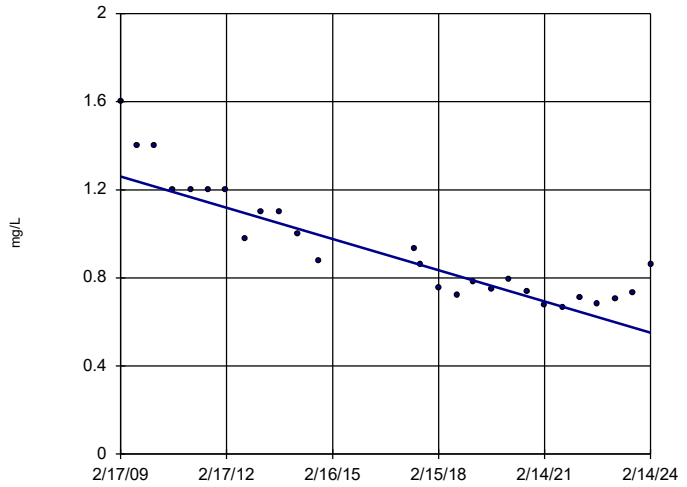
Mann-Kendall statistic = -235
critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 27

Slope = -0.04724 units per year.

Mann-Kendall statistic = -269
critical = -96

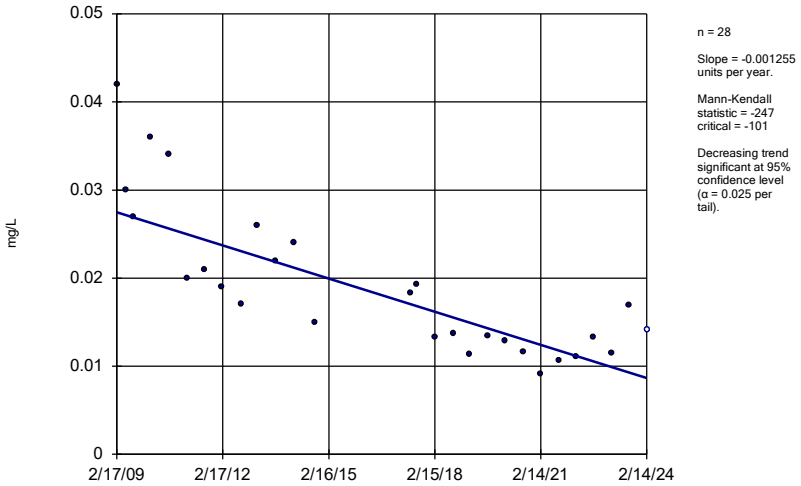
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Manganese Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 28

Slope = -0.001255 units per year.

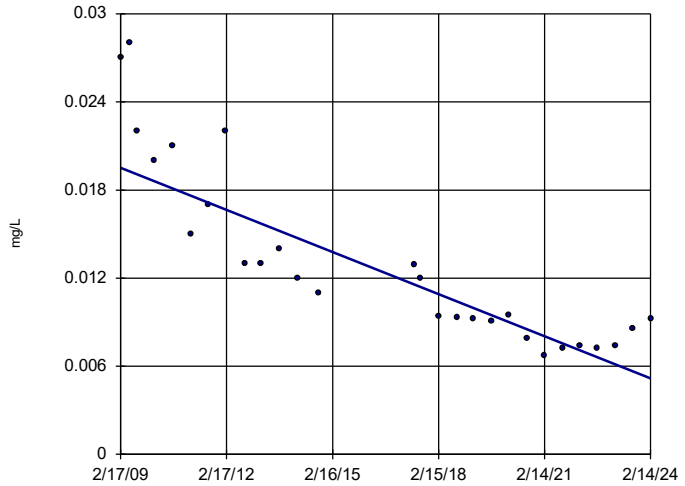
Mann-Kendall statistic = -247
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Nickel Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 28

Slope = -0.0009556 units per year.

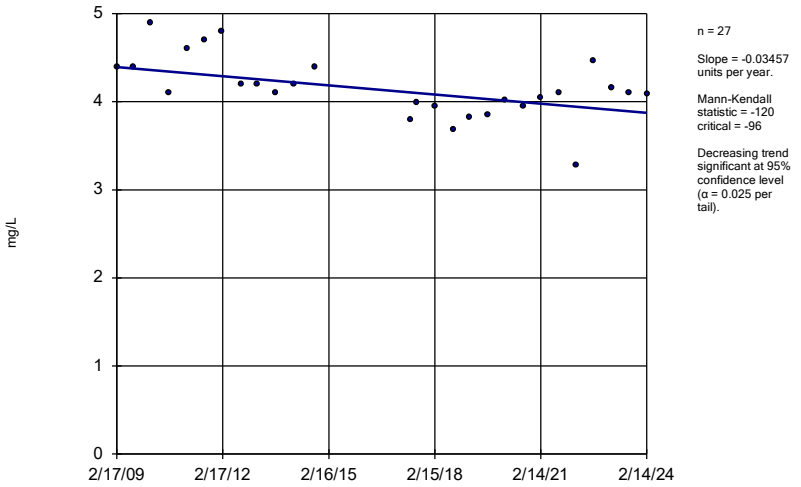
Mann-Kendall statistic = -298
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Nickel Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-19D



n = 27

Slope = -0.03457 units per year.

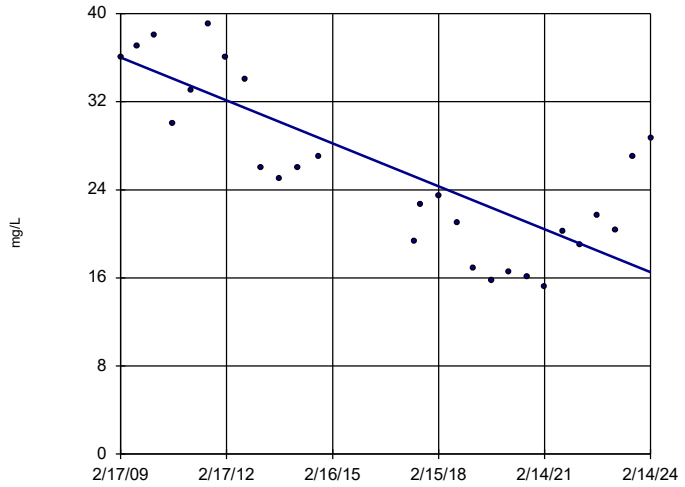
Mann-Kendall statistic = -120
critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 27

Slope = -1.3 units per year.

Mann-Kendall statistic = -178
critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Potassium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

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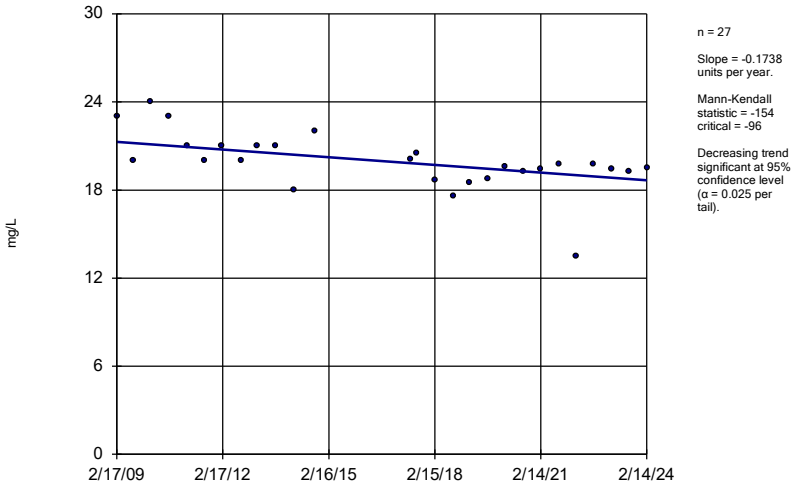
Sen's Slope Estimator

MW-19D



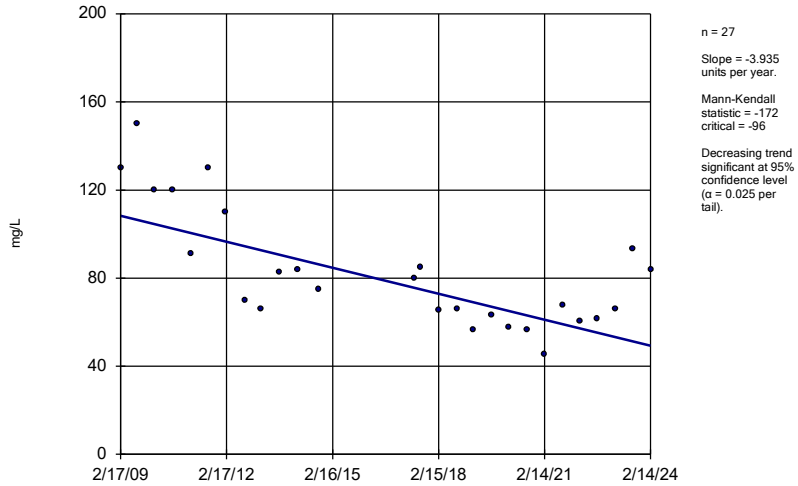
Constituent: Dissolved Sodium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-20



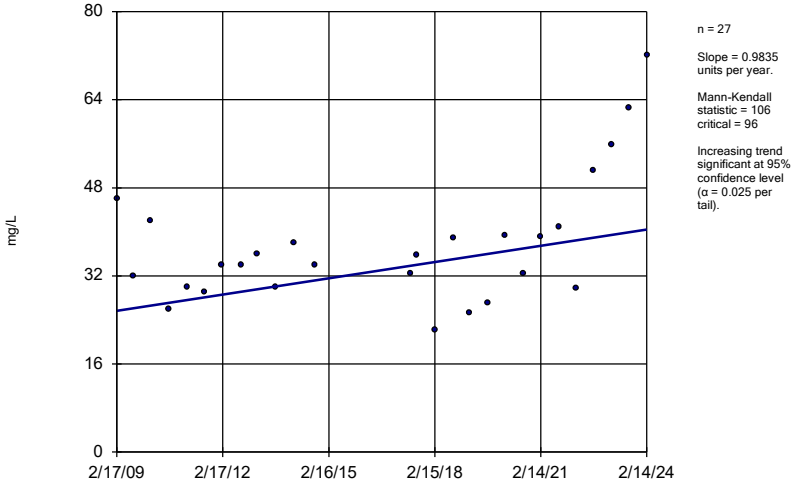
Constituent: Dissolved Sodium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-21



Constituent: Dissolved Sodium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009

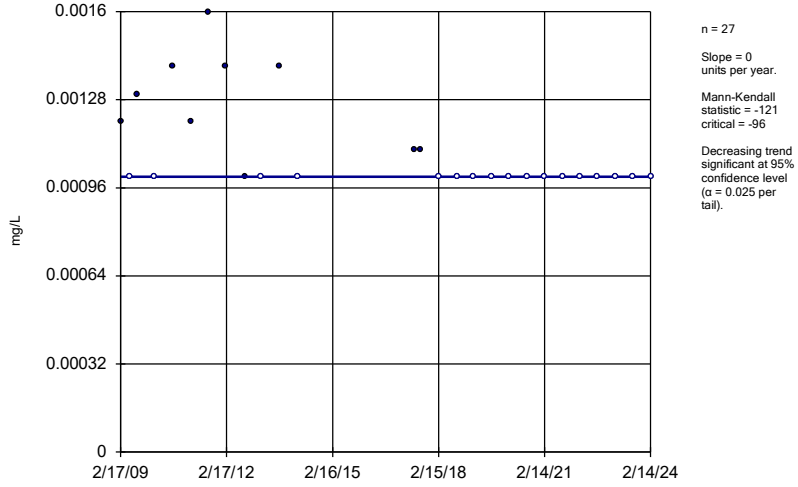
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



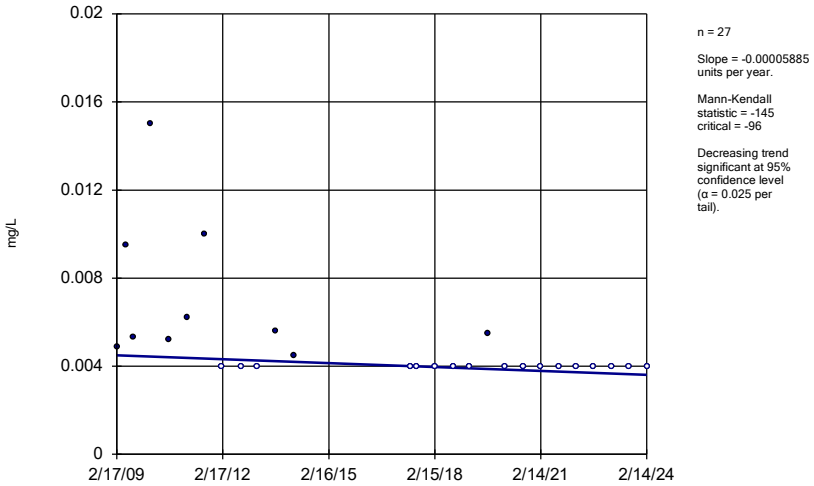
Constituent: Dissolved Thallium Analysis Run 3/14/2024 11:57 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



n = 27

Slope = -0.00005885 units per year.

Mann-Kendall statistic = -145
critical = -96

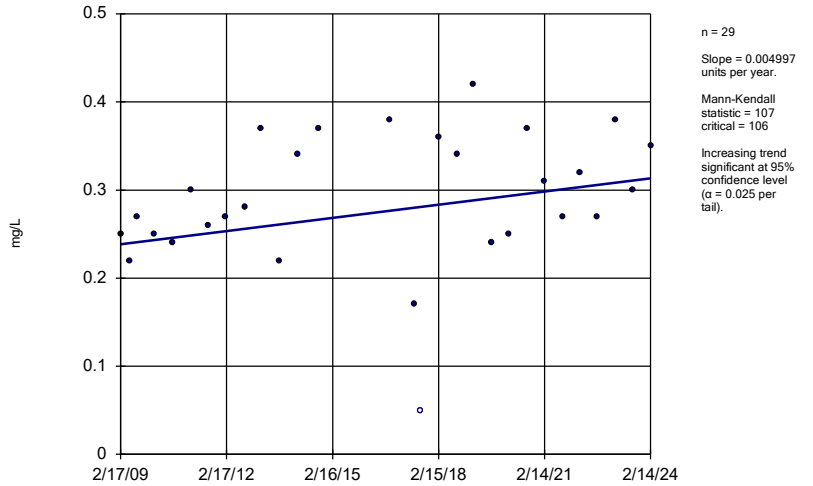
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Dissolved Zinc Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



n = 29

Slope = 0.004997 units per year.

Mann-Kendall statistic = 107
critical = 106

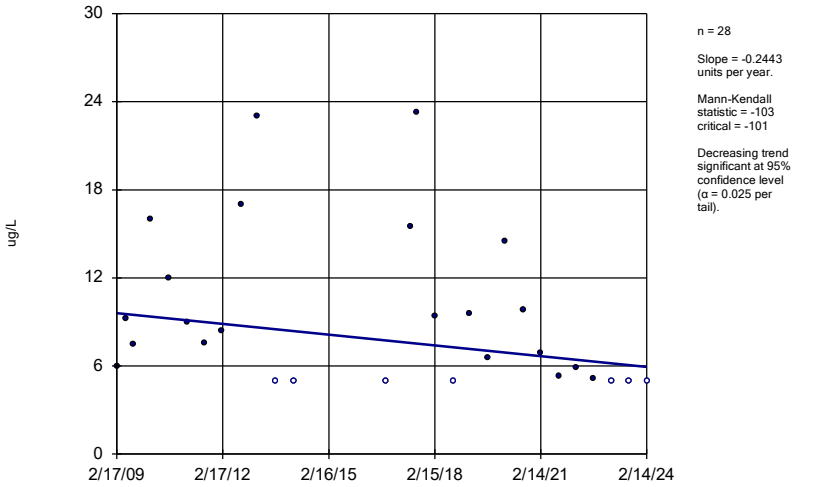
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Fluoride Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



n = 28

Slope = -0.2443 units per year.

Mann-Kendall statistic = -103
critical = -101

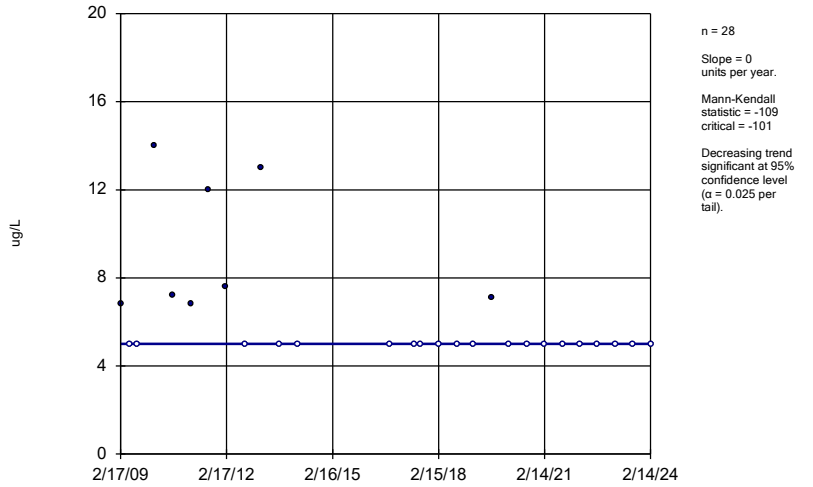
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lead [Total] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-21



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = -109
critical = -101

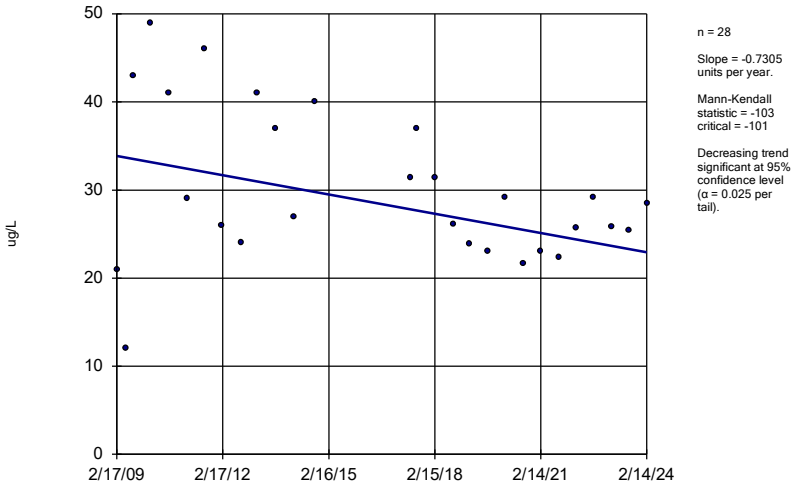
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lead [Total] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-20



Constituent: Lithium [Total] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009

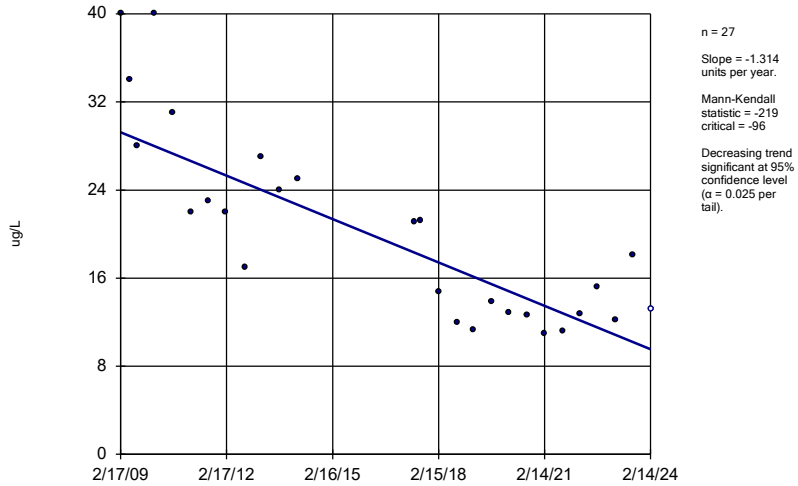
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



Constituent: Nickel [Total] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009

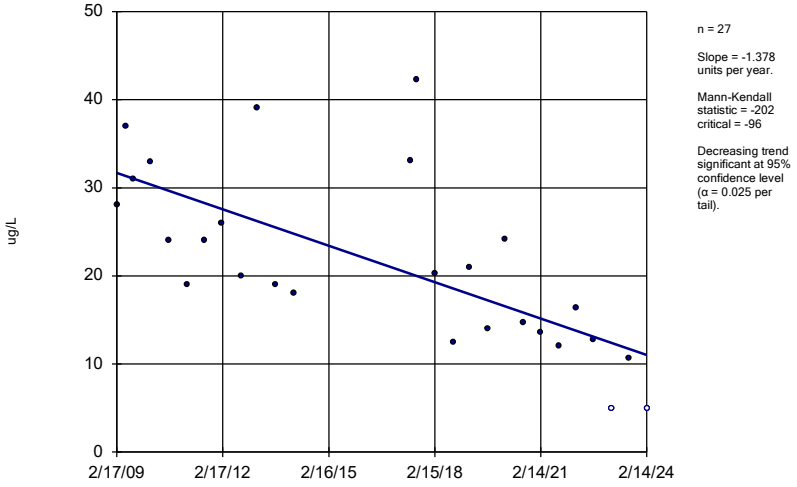
Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-20



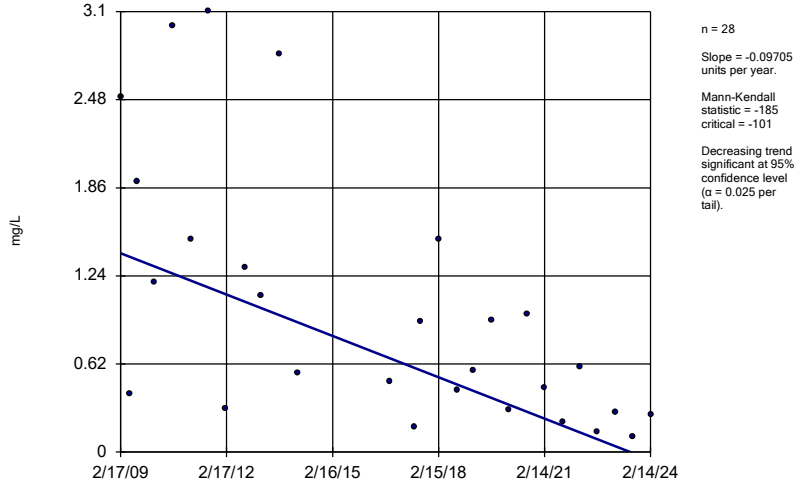
Constituent: Nickel [Total] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

Sanitas™ v.10.0.15 Software licensed to SESCO Group. EPA

Sen's Slope Estimator

MW-21



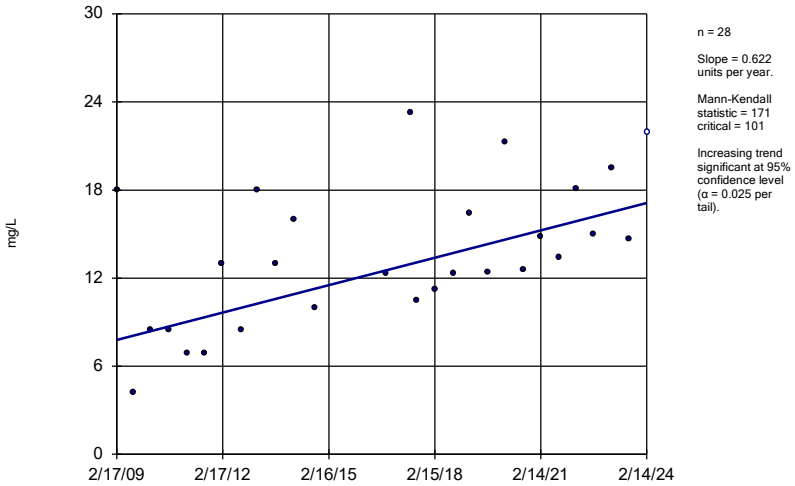
Constituent: Nitrate [as N] Analysis Run 3/14/2024 11:58 AM View: S of T post 2009

Wabash Valley LF Client: Republic Data: WV0810

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-19S



n = 28

Slope = 0.622 units per year.

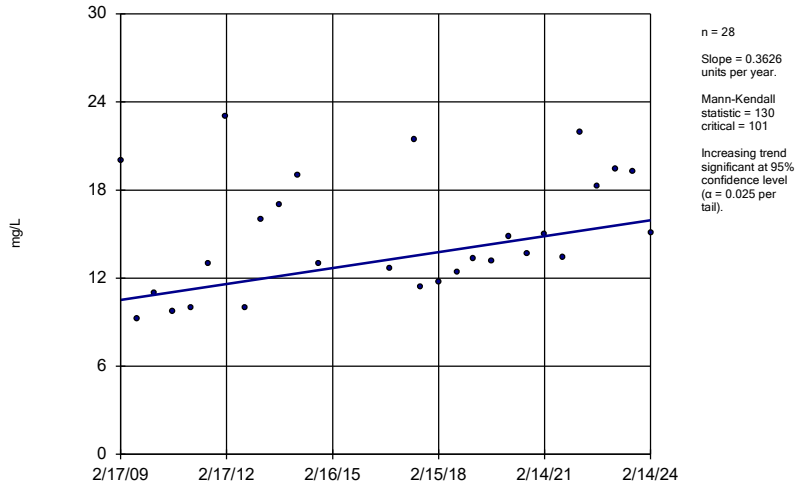
Mann-Kendall statistic = 171
critical = 101

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-20



n = 28

Slope = 0.3626 units per year.

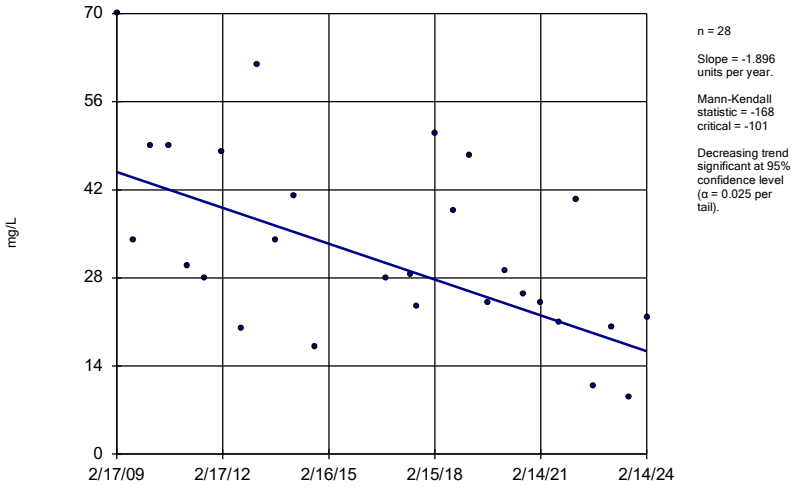
Mann-Kendall statistic = 130
critical = 101

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

Sen's Slope Estimator

MW-21



n = 28

Slope = -1.896 units per year.

Mann-Kendall statistic = -168
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Sulfate Analysis Run 3/14/2024 11:58 AM View: S of T post 2009
Wabash Valley LF Client: Republic Data: WV0810

APPENDIX 5

EAST AREA STATISTICAL OUTPUT

Time Series

Constituent: Dissolved Zinc (mg/L) Analysis Run 3/29/2024 6:04 PM View: East background

Wabash Valley LF Data: WV0810

	MW-1 (bg)	MW-111SAL (bg)	MW-113SALr (bg)	MW-22AL (bg)	MW-22BD (bg)	MW-23DAL (bg)	MW-23SAL (bg)	SP-1 (bg)	SP-2 (bg)
6/3/1998				0.0279	0.0254	0.021	0.0239		
9/1/1998	0.02				0.01				
9/2/1998				0.01		<0.01	<0.01		
12/1/1998				0.03	0.02	0.02	0.03		
2/3/1999	0.01				<0.01				
2/4/1999				<0.01		<0.01	0.01		
8/23/1999	0.009								
8/24/1999				0.002		0.002	0.003		
2/22/2000					0.007				
2/23/2000	0.019			0.024		0.015	0.019		
8/23/2000	0.029					0.021	0.004		
11/30/2000				0.004	0.031				
2/27/2001	0.016			0.012	0.006		0.018		
2/28/2001						0.02			
8/14/2001	0.01			0.024	0.024	0.021	0.017		
2/12/2002				0.034	0.044	0.045	0.063		
2/13/2002	0.01								
8/26/2002				0.015	0.013	0.015	0.0099		
8/27/2002	<0.004	<0.004							
2/17/2003				0.012	0.0054		0.0075		
2/18/2003	0.0057								
2/19/2003		<0.004							
2/27/2003						<0.004			
8/27/2003		0.015							
8/28/2003	0.0057					0.0087	0.018		
2/16/2004	0.2								
2/17/2004		0.0089	<0.004			<0.004	<0.004		
8/17/2004		<0.004							
8/18/2004	0.0086		<0.004			<0.004	<0.004		
10/28/2004		<0.004	0.0044						
12/14/2004		0.0058	<0.004						
2/22/2005	0.02	<0.004	<0.004			<0.004	<0.004		
8/23/2005		0.0096							
8/24/2005	0.013		<0.004			0.0055	0.012		
2/13/2006		<0.004	<0.004			<0.004	<0.004		
8/22/2006		<0.004	<0.004			<0.004	<0.004		
2/28/2007		<0.004	<0.004			0.0055	<0.004		
8/21/2007		<0.004				<0.004	<0.004		
8/22/2007			0.0047						
2/25/2008		<0.004	<0.004			<0.004	<0.004		
8/20/2008		<0.004	<0.004						
2/16/2009		<0.004	<0.004						
5/18/2009	<0.004		<0.004						
8/11/2009	0.0058	<0.004	<0.004						
2/2/2010	0.0076	0.0059	<0.004						
8/10/2010	<0.004	<0.004	<0.004						
2/17/2011	<0.004	<0.004	<0.004						
8/8/2011	0.028	<0.004	<0.004						
2/7/2012	<0.004	0.0044	<0.004						
8/21/2012	0.0065	0.0046	0.0062						
2/5/2013		0.0069	<0.004						
2/6/2013	<0.004								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Dissolved Zinc (mg/L) Analysis Run 3/29/2024 6:04 PM View: East background

Wabash Valley LF Data: WV0810

	MW-1 (bg)	MW-111SAL (bg)	MW-113SALr (bg)	MW-22AL (bg)	MW-22BD (bg)	MW-23DAL (bg)	MW-23SAL (bg)	SP-1 (bg)	SP-2 (bg)
8/13/2013		<0.004	<0.004						
8/14/2013	0.0057								
2/17/2014		0.0072	0.005						
2/18/2014	<0.004								
3/21/2014								<0.004	0.0084
5/23/2014								0.023	0.0066
8/25/2014		0.0049						0.007	
8/27/2014									<0.004
2/10/2015		<0.02						<0.02	
2/11/2015									0.0043
8/24/2015		<0.004						0.0072	
8/25/2015									<0.004
2/8/2016		0.0102						0.0115	
2/9/2016									0.0163
8/2/2016		<0.004						0.0048	
8/4/2016									0.0068
2/6/2017		<0.004						0.007	
2/8/2017									<0.004
8/7/2017		<0.004						<0.004	
8/9/2017									<0.004
2/20/2018		<0.004						<0.004	
2/22/2018									<0.004
8/22/2018		0.0047	<0.004					<0.004	
8/23/2018	0.0065								<0.004
2/5/2019		<0.004						<0.004	
2/7/2019									<0.004
8/13/2019		0.0046						<0.004	
8/14/2019									<0.004
2/11/2020		<0.004						<0.004	
2/12/2020									<0.004
8/12/2020		<0.004						<0.004	
8/13/2020									<0.004
2/17/2021								<0.004	<0.004
2/18/2021		<0.004							
8/18/2021		<0.004						<0.004	
8/19/2021									<0.004
2/17/2022		<0.004						<0.004	
2/18/2022									<0.004
8/24/2022		<0.004						<0.004	
8/25/2022									<0.004
2/15/2023		<0.004						<0.004	
2/16/2023									<0.004
8/16/2023		<0.004						<0.004	
8/17/2023									<0.004
2/14/2024		<0.004						<0.004	<0.004

ND substitution: RL or RL/2 if <15% NDs.

Outlier Analysis

Wabash Valley LF Data: WV0810 Printed 3/29/2024, 6:08 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Dissolved Zinc (mg/L)	MW-1 (bg)	n/a	n/a	n/a	EPA 1989	0.05	27	0.01719	0.03725	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	MW-111SAL (bg)	n/a	n/a	n/a	EPA 1989	0.05	46	0.005233	0.003086	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	MW-113SALr (bg)	n/a	n/a	n/a	EPA 1989	0.05	25	0.004172	0.0004895	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	MW-22AL (bg)	No	n/a	n/a	EPA 1989	0.05	12	0.01666	0.01093	normal	ShapiroWilk
Dissolved Zinc (mg/L)	MW-22BD (bg)	No	n/a	n/a	EPA 1989	0.05	11	0.01735	0.01272	normal	ShapiroWilk
Dissolved Zinc (mg/L)	MW-23DAL (bg)	No	n/a	n/a	EPA 1989	0.05	22	0.01144	0.0102	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	MW-23SAL (bg)	No	n/a	n/a	EPA 1989	0.05	22	0.0126	0.01362	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	SP-1 (bg)	n/a	n/a	n/a	EPA 1989	0.05	22	0.006386	0.005241	unknown	ShapiroWilk
Dissolved Zinc (mg/L)	SP-2 (bg)	n/a	n/a	n/a	EPA 1989	0.05	22	0.005018	0.002782	unknown	ShapiroWilk

Prediction Limit

Wabash Valley LF Data: WV0810 Printed 3/29/2024, 6:13 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	Transform	Alpha	Method
Dissolved Zinc (mg/L)	n/a	0.028	n/a	n/a	1 future	n/a	98	MW-1,SP-1,MW-113SALr,SP-2,MW-111SAL	71.43	n/a	0.0101	NP Inter (NDs)