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January 20, 2022

Mr. Lon Petts
Hoosier Energy REC, Inc.
P.O. Box 908
Bloomington, Indiana 47402

Re: **2021 CCR Annual Groundwater Monitoring and Corrective Action
Report**

Merom Generating Station – Area 3 Landfill
CCR Monitoring System
5500 West Old Highway 54
Sullivan County, Indiana
ATC Project No. 170LF01086

Dear Mr. Petts:

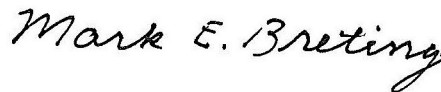
ATC Group Services LLC (ATC) has prepared this 2021 CCR Annual Groundwater Monitoring and Corrective Action Report for the bedrock aquifer groundwater monitoring system at the Hoosier Energy REC, Inc. (Hoosier Energy) Merom Generating Station located outside Sullivan, Sullivan County, Indiana. This report has been prepared to comply with reporting requirements described in the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule § 257.90(e).

We appreciate the opportunity to assist with Hoosier Energy's CCR Rule groundwater monitoring program at Merom Generating Station's Area 3 Landfill. Please contact either of the undersigned at 317.849.4990 if you have any questions regarding this report.

Sincerely,



Slawa Bruder
Senior Project Manager



Mark Breting, L.P.G.
Senior Project Geologist

Executive Summary

This executive summary is written in compliance with 40 C.F.R. § 257.90(e)(6) for the Merom Generating Station – Area 3 Landfill (Site). This report covers the annual reporting period from January 1, 2021 through December 31, 2021. The site's groundwater program was under detection monitoring during 2021 in compliance with 40 C.F.R. § 257.90. In accordance with § 257.94(c), detection monitoring of Appendix III parameters was completed on a semi-annual basis in May and November 2021 to fulfil the semi-annual monitoring requirement. No changes to the site's groundwater monitoring well network were made in 2021. This report also includes information that pertains to groundwater results associated with the November 2020 sampling event since the evaluation of the data associated with the November 2020 sampling event was not completed by December 31, 2020. No statistically significant increases (SSIs) were reported at the network for the November 2020 and May 2021 groundwater monitoring period. No assessment or an assessment of corrective measures have been initiated at the Site. Evaluation of the data associated with the November 2021 sampling event for SSIs had not been completed by December 31, 2021, however, the laboratory results were available and are included in this report. The outcome of the November 2021 groundwater quality evaluation will be presented in the 2022 CCR Annual Groundwater Monitoring and Corrective Action Report.

November 2020 and May 2021 Annual Summary Table	
Monitoring Well	Appendix III Constituent(s) Over Background Levels
None	None

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Table 8: Analytical Data Summary for SWW-46

Table 9: Analytical Data Summary for SWW-47

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1 Background

This annual report documents the status of the groundwater monitoring and corrective action program for the Merom Area 3 Landfill and summarizes information required by § 257.90(e)(1) through § 257.90(e)(5). The requirements are associated with the United States Environmental Protection Agency's (USEPA) Coal Combustion Residuals (CCR) Rule.

Hoosier Energy operates the Merom Generating Station, located approximately six miles west of Sullivan, Indiana. It is located at 5500 West Old Highway 54, Sullivan, Indiana. A Vicinity Map is provided as Figure 1. A map showing the location of the CCR management unit and associated upgradient and downgradient monitoring wells is provided as Figure 2.

Federal CCR Rule § 257.90(e) specifies the following:

For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

At a minimum, the annual groundwater monitoring and corrective action report must contain the information described above and the information required by § 257.90(e), (1) through (5), to the extent available.

This report covers the period of January 1, 2021, through December 31, 2021. In addition, this report contains information that pertains to groundwater results associated with the November 2021 sampling event, however, evaluation of the data associated with the November 2021 sampling event for SSIs had not been completed by December 31, 2021.

1.1 Status of the Groundwater Monitoring and Corrective Action Program

In compliance with the requirements of § 257.90(b) and § 257.94, Hoosier Energy initiated the detection monitoring program for the CCR unit. Results of Appendix III detection monitoring constituents were initially statistically evaluated in January 2018. SSIs were not identified in the background dataset. At the beginning and end of the 2021 reporting period, the CCR unit operated under the Detection Monitoring Program in accordance with § 257.94.

1.2 Summary of Key Actions Completed

The following key actions have been completed to comply with the CCR Rule:

- Appendix III groundwater monitoring data was evaluated for statistically significant increases for the November 2020 and May 2021 semi-annual events.
- Detection monitoring was completed on a semi-annual basis in May and November 2021 in accordance with § 257.94(c).

1.3 Completion of Required Reports

The following required reports were completed:

- *2020 CCR Annual Groundwater Monitoring and Corrective Action Report, Merom Generating Station- Area 3 Landfill*, ATC Group Services, January 27, 2021.
- *May 2021 CCR Monitoring Well Network Groundwater Quality Data Area 3*, ATC Group Services, July 30, 2021.

1.4 Description of Any Problems Encountered

No problems were encountered during the annual reporting period.

1.5 Actions to Resolve Problems Encountered

No actions were needed.

1.6 Projected Key Activities for the Upcoming Year

Projected key activities for the upcoming year include the following:

- Completion of statistical analysis of November 2021 semi-annual sampling event.
- Semi-annual groundwater sampling events to be conducted in 2022.
- Completion of statistical analysis of first 2022 semi-annual sampling event groundwater results.

2 Identification of Monitoring Wells Installed or Abandoned - § 257.90(e)(2)

No new monitoring wells were installed, nor were any wells decommissioned during the preceding year.

Table 1 includes a list of wells used in the CCR monitoring program, and Figure 2 displays the locations of the CCR monitoring wells.

3 Groundwater Monitoring Data - § 257.90(e)(3)

Table 1 provides a summary of the number of samples collected at each well, sampling dates, and designation of whether samples were required by the Detection or Assessment Monitoring Program. Groundwater analytical results for samples collected during the 2021 sampling events are summarized in Tables 2 through 9. Continuation of the Detection Monitoring Program on a semi-annual basis was conducted in May 2021 and November 2021. The 2021 laboratory analytical results are located in Appendix A.

4 Monitoring Program Transition Discussion - § 257.90(e)(4)

Consistent with § 257.90(e), the 2021 annual report documents activities conducted during the prior calendar year at the CCR management units subject to the Rule.

Pursuant to 257.93(h), the statistical analysis of the initial minimum eight rounds of Appendix III groundwater sampling data was completed in January 2018. The detection groundwater monitoring program continued in 2021. Historically, a SSI was reported for total boron at monitoring well SWW-46, however, the demonstration of statistical exceedances, including boron, was prepared in November 2018 and the accuracy of this demonstration was confirmed by a qualified professional engineer, as required by 40 C.F.R. § 257.94(e)(2), in the *Certification of Accuracy of Demonstration – Statistically Significant Increase Over Background Levels Not Caused by CCR Unit* dated September 24, 2019. No SSIs were reported for the first semi-annual groundwater event in 2021.

5 Other Information Required by §§ 257.90 through 257.98 - § 257.90(e)(5)

The following sections contain information required by §§ 257.90 through 257.98.

5.1 Detection Monitoring Program — § 257.94

The following sections provide information required for inclusion in the annual groundwater monitoring and corrective action report covering this annual reporting period.

5.1.1 Alternative Monitoring Frequency — § 257.94(d)

An alternative monitoring frequency was not developed for this CCR unit. No information is provided, as this requirement is not applicable for this annual reporting period.

5.1.2 Identification of Appendix III Constituents Detected at SSI Over Background — § 257.94(e)

Appendix III constituents were not detected over the established background concentrations during this reporting period.

5.1.3 Transition from Detection to Assessment Monitoring — § 257.94(e)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.1.4 Alternative Source Demonstration — § 257.94(e)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2 Assessment Monitoring Program — § 257.95

The following sections provide information required for inclusion in the annual groundwater monitoring and corrective action report covering this annual reporting period.

5.2.1 Results of Sampling Required by - § 257.95(b)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.2 Alternative Monitoring Frequency — § 257.95(c)

An alternative monitoring frequency was not developed for this CCR unit. No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.3 Semi Annual Monitoring Results — § 257.95(d)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.4 Groundwater Protection Standards — § 257.95(d)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.5 Recorded Concentrations Required by § 257.95(d)(1) — § 257.95(d)(3)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.6 Notification of Resumption of Detection Monitoring — § 257.95(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.7 Identification of Appendix IV Constituents Exceeding Groundwater Protection Standards and Notifications — § 257.95(g)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.8 Characterize Nature and Extent of Release — § 257.95(g)(1)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.9 Notification of Adjacent Owners or Residents — § 257.95(g)(2)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.10 Initiate an Assessment of Corrective Measures — § 257.95(g)(3)(i)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.2.11 Alternative Source Demonstration — § 257.95(g)(3)(ii)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.3 Assessment of Corrective Measures — § 257.96

No information is provided, as this requirement is not applicable for this annual reporting period.

5.3.1 Demonstration for 60 Day Extension — § 257.96(a)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4 Selection of Remedy — § 257.97

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.1 Semi-annual Progress Reports — § 257.97(a)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.2 Implementation Schedule — § 257.97(d)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.4.3 Summary of Selected Remedy Final Report — § 257.97(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

5.5 Corrective Action Program — § 257.98

No information is provided, as this requirement is not applicable for this annual reporting period.

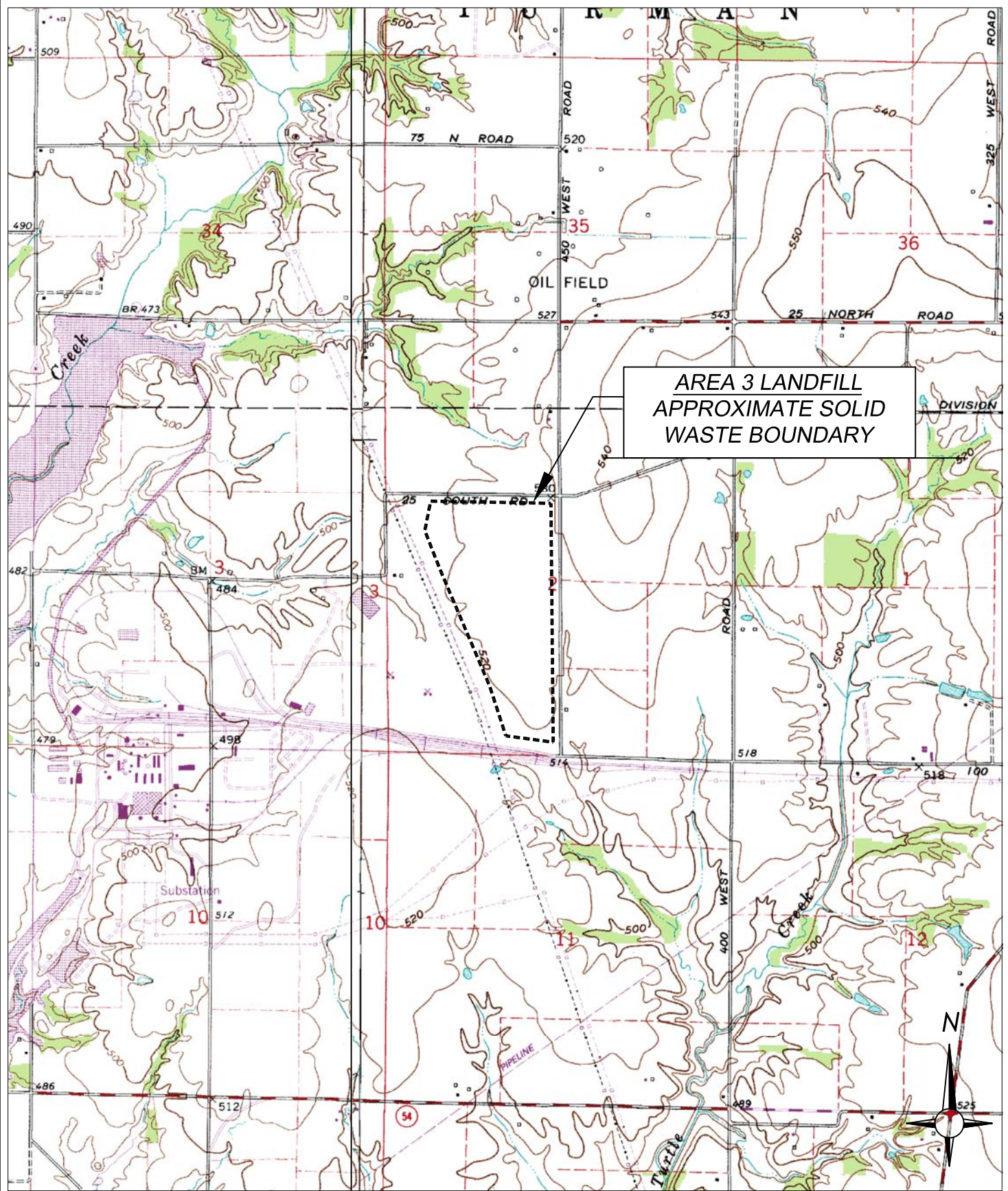
5.5.1 Completion of Remedy — § 257.98(e)

No information is provided, as this requirement is not applicable for this annual reporting period.

FIGURES

Figure 1: Vicinity Map

Figure 2: Site Plan



VICINITY MAP

HOOSIER ENERGY
MEROM GENERATING STATION
AREA 3 LANDFILL
SULLIVAN COUNTY, INDIANA

Project Number:
17OLF00147

Drawing File:
SEE LOWER LEFT

Date:
8/17

Scale:
1" = 2000'

ATC

Drn. By:
PL

Ckd. By:
MB

App'd By:

Figure:

1



LEGEND:

EXISTING CCR BEDROCK MONITORING WELL

SWW-40 MONITORING WELL IDENTIFICATION

----- APPROXIMATE SOLID WASTE BOUNDARY

----- APPROXIMATE FACILITY BOUNDARY

- E - E - POWER TRANSMISSION LINES

AERIAL IMAGERY DATE 9/19/2020

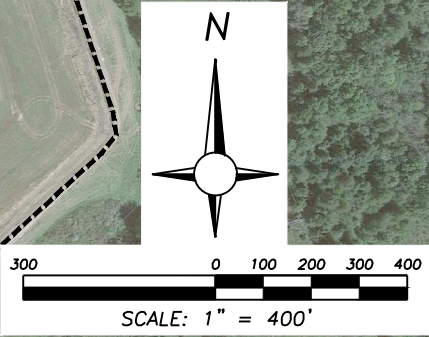


Figure: 2	Scale: AS SHOWN	Date: 1/19	SITE PLAN HOOSIER ENERGY MEROM GENERATING STATION AREA 3 LANDFILL SULLIVAN COUNTY, INDIANA	Project Number: 17OLF00929	Dwn. By: BH
				Drawing File: SEE ABOVE	Ckd. By: MB
					App'd By:
					Ckd. Date:

TABLES

Table 1:	Well Sampling Summary
Table 2:	Analytical Data Summary for SWW-40
Table 3:	Analytical Data Summary for SWW-41
Table 4:	Analytical Data Summary for SWW-42
Table 5:	Analytical Data Summary for SWW-43
Table 6:	Analytical Data Summary for SWW-44
Table 7:	Analytical Data Summary for SWW-45
Table 8:	Analytical Data Summary for SWW-46
Table 9:	Analytical Data Summary for SWW-47

Table 1
Well Sampling Summary
Area 3 Landfill
Hoosier Energy, REC, Inc.
Merom Generating Station
Sullivan, Indiana
ATC Project No. 170LF01086

Identification	Date Installed	Upgradient or Downgradient	Number of Samples	Sample Date	Detection or Assessment Monitoring
SWW-40	12/11/2015	Upgradient	2	5/13/2021	Detection
				11/17/2021	
SWW-41	12/19/2015	Downgradient	2	5/12/2021	Detection
				11/16/2021	
SWW-42	12/16/2015	Downgradient	2	5/12/2021	Detection
				11/15/2021	
SWW-43	1/5/2016	Downgradient	2	5/12/2021	Detection
				11/15/2021	
SWW-44	1/7/2016	Downgradient	2	5/12/2021	Detection
				11/16/2021	
SWW-45	1/14/2016	Downgradient	2	5/13/2021	Detection
				11/17/2021	
SWW-46	1/21/2016	Upgradient	2	5/13/2021	Detection
				11/18/2021	
SWW-47	1/19/2016	Upgradient	2	5/13/2021	Detection
				11/18/2021	

Table 2**Analytical Data Summary for SWW-40**

Constituents	Units	5/13/2021	11/17/2021
Boron	ug/L	979	851
Calcium	ug/L	2860	25400
Chloride	mg/L	240	191
Fluoride	mg/L	4.6	3.7
pH	SU	8.47	7.11
Sulfate	mg/L	11.9	17.8
Total dissolved solids	mg/L	1350	1160

* - The displayed value is the arithmetic mean of multiple database matches.

Table 3**Analytical Data Summary for SWW-41**

Constituents	Units	5/12/2021	11/16/2021
Boron	ug/L	1070	1110
Calcium	ug/L	2210	2360
Chloride	mg/L	272	259
Fluoride	mg/L	5	5
pH	SU	8.53	7.45
Sulfate	mg/L	4.4	4.7
Total dissolved solids	mg/L	1460	1450

* - The displayed value is the arithmetic mean of multiple database matches.

Table 4**Analytical Data Summary for SWW-42**

Constituents	Units	5/12/2021	11/15/2021
Boron	ug/L	1240	1230
Calcium	ug/L	2210	1970
Chloride	mg/L	306	302
Fluoride	mg/L	3.9	3.9
pH	SU	8.80	7.58
Sulfate	mg/L	.32	.45
Total dissolved solids	mg/L	1400	1350

* - The displayed value is the arithmetic mean of multiple database matches.

Table 5**Analytical Data Summary for SWW-43**

Constituents	Units	5/12/2021	11/15/2021
Boron	ug/L	1170	1180
Calcium	ug/L	3390	3140
Chloride	mg/L	348	332
Fluoride	mg/L	4.6	4.5
pH	SU	8.66	7.52
Sulfate	mg/L	.57	.37
Total dissolved solids	mg/L	1450	1420

* - The displayed value is the arithmetic mean of multiple database matches.

Table 6**Analytical Data Summary for SWW-44**

Constituents	Units	5/12/2021	11/16/2021
Boron	ug/L	1100	1090
Calcium	ug/L	2410	3220
Chloride	mg/L	367	356
Fluoride	mg/L	5	5
pH	SU	8.54	7.51
Sulfate	mg/L	9.6	8.2
Total dissolved solids	mg/L	1580	1560

* - The displayed value is the arithmetic mean of multiple database matches.

Table 7**Analytical Data Summary for SWW-45**

Constituents	Units	5/13/2021	11/17/2021
Boron	ug/L	1080	603
Calcium	ug/L	2680	1580
Chloride	mg/L	512	516
Fluoride	mg/L	4.7	4.8
pH	SU	8.42	7.42
Sulfate	mg/L	<.25	<.25
Total dissolved solids	mg/L	1700	1720

* - The displayed value is the arithmetic mean of multiple database matches.

Table 8**Analytical Data Summary for SWW-46**

Constituents	Units	5/13/2021	11/18/2021
Boron	ug/L	1070	1100
Calcium	ug/L	2760	2860
Chloride	mg/L	322	337
Fluoride	mg/L	4.6	4.7
pH	SU	8.24	7.39
Sulfate	mg/L	20.5	17.3
Total dissolved solids	mg/L	1530	1560

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9**Analytical Data Summary for SWW-47**

Constituents	Units	5/13/2021	11/18/2021
Boron	ug/L	931	1020
Calcium	ug/L	11200	6540
Chloride	mg/L	190	194
Fluoride	mg/L	2.8	3.0
pH	SU	8.21	8.69
Sulfate	mg/L	3.8	2.8
Total dissolved solids	mg/L	1160	1170

* - The displayed value is the arithmetic mean of multiple database matches.

APPENDIX A

Laboratory Certificates of Analysis

June 01, 2021

Ms. Slawa Bruder
ATC Group Services
7988 Centerpoint Drive
Indianapolis, IN 46268

RE: Project: Merom Area 3 CCR IIII
Pace Project No.: 50287550

Dear Ms. Bruder:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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.

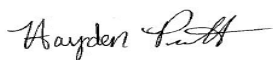
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

Revised report replaces the original from 5/28. Sample 006 chloride dilution fixed. hrp 6/1/21

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

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

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50287550001	SWW-40	Water	05/13/21 10:25	05/14/21 14:10
50287550002	SWW-41	Water	05/12/21 14:40	05/14/21 14:10
50287550003	SWW-42	Water	05/12/21 11:15	05/14/21 14:10
50287550004	SWW-43	Water	05/12/21 12:15	05/14/21 14:10
50287550005	SWW-44	Water	05/12/21 13:35	05/14/21 14:10
50287550006	SWW-45	Water	05/13/21 11:25	05/14/21 14:10
50287550007	SWW-46	Water	05/13/21 13:20	05/14/21 14:10
50287550008	SWW-47	Water	05/13/21 16:40	05/14/21 14:10
50287550009	DUP-1	Water	05/12/21 08:00	05/14/21 14:10
50287550010	FB-1	Water	05/11/21 11:10	05/14/21 14:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50287550001	SWW-40	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550002	SWW-41	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550003	SWW-42	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550004	SWW-43	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550005	SWW-44	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550006	SWW-45	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550007	SWW-46	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550008	SWW-47	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550009	DUP-1	EPA 9056	RMR	3	PASI-I
		EPA 6010	KJE	2	PASI-I
		SM 2540C	ZM	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I
50287550010	FB-1	EPA 9056	HBS	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	KJE	2	PASI-I
		SM 2540C	WZE	1	PASI-I
		SM 4500-H+B	SWJ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50287550001	SWW-40					
EPA 9056	Chloride	240	mg/L	25.0	05/27/21 21:52	
EPA 9056	Fluoride	4.6	mg/L	1.0	05/27/21 21:36	
EPA 9056	Sulfate	11.9	mg/L	2.5	05/27/21 21:36	
EPA 6010	Boron	979	ug/L	100	05/26/21 11:06	
EPA 6010	Calcium	2860	ug/L	1000	05/26/21 11:06	
SM 2540C	Total Dissolved Solids	1350	mg/L	20.0	05/18/21 11:51	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	05/27/21 15:32	H3
50287550002	SWW-41					
EPA 9056	Chloride	272	mg/L	25.0	05/27/21 22:25	
EPA 9056	Fluoride	5.0	mg/L	1.0	05/27/21 22:08	
EPA 9056	Sulfate	4.4	mg/L	2.5	05/27/21 22:08	
EPA 6010	Boron	1070	ug/L	100	05/26/21 11:08	
EPA 6010	Calcium	2210	ug/L	1000	05/26/21 11:08	
SM 2540C	Total Dissolved Solids	1460	mg/L	20.0	05/18/21 10:48	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	05/27/21 15:33	H3
50287550003	SWW-42					
EPA 9056	Chloride	306	mg/L	25.0	05/27/21 22:57	
EPA 9056	Fluoride	3.9	mg/L	0.10	05/28/21 10:25	
EPA 9056	Sulfate	0.32	mg/L	0.25	05/28/21 10:25	
EPA 6010	Boron	1240	ug/L	100	05/26/21 11:10	
EPA 6010	Calcium	2210	ug/L	1000	05/26/21 11:10	
SM 2540C	Total Dissolved Solids	1400	mg/L	40.0	05/18/21 10:49	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	05/27/21 15:35	H3
50287550004	SWW-43					
EPA 9056	Chloride	348	mg/L	25.0	05/28/21 00:02	
EPA 9056	Fluoride	4.6	mg/L	0.10	05/28/21 10:41	
EPA 9056	Sulfate	0.57	mg/L	0.25	05/28/21 10:41	
EPA 6010	Boron	1170	ug/L	100	05/26/21 11:17	
EPA 6010	Calcium	3390	ug/L	1000	05/26/21 11:17	
SM 2540C	Total Dissolved Solids	1450	mg/L	20.0	05/18/21 10:49	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	05/27/21 15:36	H3
50287550005	SWW-44					
EPA 9056	Chloride	367	mg/L	25.0	05/28/21 00:35	
EPA 9056	Fluoride	5.0	mg/L	1.0	05/28/21 00:19	
EPA 9056	Sulfate	9.6	mg/L	2.5	05/28/21 00:19	
EPA 6010	Boron	1100	ug/L	100	05/26/21 11:19	
EPA 6010	Calcium	2410	ug/L	1000	05/26/21 11:19	
SM 2540C	Total Dissolved Solids	1580	mg/L	40.0	05/18/21 10:56	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	05/27/21 15:38	H3
50287550006	SWW-45					
EPA 9056	Chloride	512	mg/L	25.0	05/28/21 01:08	
EPA 9056	Fluoride	4.7	mg/L	0.10	05/28/21 11:14	
EPA 6010	Boron	1080	ug/L	100	05/26/21 11:21	
EPA 6010	Calcium	2680	ug/L	1000	05/26/21 11:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50287550006	SWW-45					
SM 2540C	Total Dissolved Solids	1700	mg/L	40.0	05/18/21 11:52	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	05/27/21 15:40	H3
50287550007	SWW-46					
EPA 9056	Chloride	322	mg/L	25.0	05/28/21 02:13	
EPA 9056	Fluoride	4.6	mg/L	1.0	05/28/21 01:24	
EPA 9056	Sulfate	20.5	mg/L	2.5	05/28/21 01:24	
EPA 6010	Boron	1070	ug/L	100	05/26/21 11:24	
EPA 6010	Calcium	2760	ug/L	1000	05/26/21 11:24	
SM 2540C	Total Dissolved Solids	1530	mg/L	40.0	05/18/21 16:47	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	05/27/21 15:41	H3
50287550008	SWW-47					
EPA 9056	Chloride	190	mg/L	25.0	05/28/21 03:51	
EPA 9056	Fluoride	2.8	mg/L	1.0	05/28/21 03:34	
EPA 9056	Sulfate	3.8	mg/L	2.5	05/28/21 03:34	
EPA 6010	Boron	931	ug/L	100	05/26/21 11:34	
EPA 6010	Calcium	11200	ug/L	1000	05/26/21 11:34	
SM 2540C	Total Dissolved Solids	1160	mg/L	20.0	05/18/21 16:48	
SM 4500-H+B	pH at 25 Degrees C	8.4	Std. Units	0.10	05/27/21 15:46	H3
50287550009	DUP-1					
EPA 9056	Chloride	327	mg/L	25.0	05/28/21 04:40	
EPA 9056	Fluoride	4.8	mg/L	0.10	05/28/21 04:07	
EPA 9056	Sulfate	0.68	mg/L	0.25	05/28/21 04:07	
EPA 6010	Boron	1170	ug/L	100	05/26/21 11:37	
EPA 6010	Calcium	3360	ug/L	1000	05/26/21 11:37	
SM 2540C	Total Dissolved Solids	1400	mg/L	40.0	05/17/21 11:34	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	05/27/21 15:47	H3
50287550010	FB-1					
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	05/27/21 15:52	H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-40		Lab ID: 50287550001		Collected: 05/13/21 10:25		Received: 05/14/21 14:10		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	240	mg/L	25.0	100		05/27/21 21:52	16887-00-6		
Fluoride	4.6	mg/L	1.0	10		05/27/21 21:36	16984-48-8		
Sulfate	11.9	mg/L	2.5	10		05/27/21 21:36	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	979	ug/L	100	1	05/25/21 14:56	05/26/21 11:06	7440-42-8		
Calcium	2860	ug/L	1000	1	05/25/21 14:56	05/26/21 11:06	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1350	mg/L	20.0	1		05/18/21 11:51			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.4	Std. Units	0.10	1		05/27/21 15:32		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-41		Lab ID: 50287550002		Collected: 05/12/21 14:40		Received: 05/14/21 14:10		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	272	mg/L	25.0	100		05/27/21 22:25	16887-00-6		
Fluoride	5.0	mg/L	1.0	10		05/27/21 22:08	16984-48-8		
Sulfate	4.4	mg/L	2.5	10		05/27/21 22:08	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1070	ug/L	100	1	05/25/21 14:56	05/26/21 11:08	7440-42-8		
Calcium	2210	ug/L	1000	1	05/25/21 14:56	05/26/21 11:08	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1460	mg/L	20.0	1		05/18/21 10:48			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1		05/27/21 15:33		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-42		Lab ID: 50287550003		Collected: 05/12/21 11:15		Received: 05/14/21 14:10		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	306	mg/L	25.0	100		05/27/21 22:57	16887-00-6		
Fluoride	3.9	mg/L	0.10	1		05/28/21 10:25	16984-48-8		
Sulfate	0.32	mg/L	0.25	1		05/28/21 10:25	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1240	ug/L	100	1	05/25/21 14:56	05/26/21 11:10	7440-42-8		
Calcium	2210	ug/L	1000	1	05/25/21 14:56	05/26/21 11:10	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1400	mg/L	40.0	1		05/18/21 10:49			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1		05/27/21 15:35		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-43		Lab ID: 50287550004		Collected: 05/12/21 12:15		Received: 05/14/21 14:10		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	348	mg/L	25.0	100		05/28/21 00:02	16887-00-6	
		Fluoride	4.6	mg/L	0.10	1		05/28/21 10:41	16984-48-8	
		Sulfate	0.57	mg/L	0.25	1		05/28/21 10:41	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010								
		Pace Analytical Services - Indianapolis								
		Boron	1170	ug/L	100	1	05/25/21 14:56	05/26/21 11:17	7440-42-8	
Calcium	3390	ug/L	1000	1	05/25/21 14:56	05/26/21 11:17	7440-70-2			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
		Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1450	mg/L	20.0	1			05/18/21 10:49			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B								
		Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.6	Std. Units	0.10	1			05/27/21 15:36		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-44		Lab ID: 50287550005		Collected: 05/12/21 13:35		Received: 05/14/21 14:10		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	367	mg/L	25.0	100		05/28/21 00:35	16887-00-6		
Fluoride	5.0	mg/L	1.0	10		05/28/21 00:19	16984-48-8		
Sulfate	9.6	mg/L	2.5	10		05/28/21 00:19	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1100	ug/L	100	1	05/25/21 14:56	05/26/21 11:19	7440-42-8		
Calcium	2410	ug/L	1000	1	05/25/21 14:56	05/26/21 11:19	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1580	mg/L	40.0	1		05/18/21 10:56			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1		05/27/21 15:38		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-45		Lab ID: 50287550006		Collected: 05/13/21 11:25		Received: 05/14/21 14:10		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	512	mg/L	25.0	100		05/28/21 01:08	16887-00-6		
Fluoride	4.7	mg/L	0.10	1		05/28/21 11:14	16984-48-8		
Sulfate	ND	mg/L	0.25	1		05/28/21 11:14	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1080	ug/L	100	1	05/25/21 14:56	05/26/21 11:21	7440-42-8		
Calcium	2680	ug/L	1000	1	05/25/21 14:56	05/26/21 11:21	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1700	mg/L	40.0	1		05/18/21 11:52			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		05/27/21 15:40		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-46		Lab ID: 50287550007		Collected: 05/13/21 13:20		Received: 05/14/21 14:10		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	322	mg/L	25.0	100		05/28/21 02:13	16887-00-6		
Fluoride	4.6	mg/L	1.0	10		05/28/21 01:24	16984-48-8		
Sulfate	20.5	mg/L	2.5	10		05/28/21 01:24	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
		Pace Analytical Services - Indianapolis							
Boron	1070	ug/L	100	1	05/25/21 14:56	05/26/21 11:24	7440-42-8		
Calcium	2760	ug/L	1000	1	05/25/21 14:56	05/26/21 11:24	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
		Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1530	mg/L	40.0	1		05/18/21 16:47			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B							
		Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.5	Std. Units	0.10	1		05/27/21 15:41		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: SWW-47		Lab ID: 50287550008		Collected: 05/13/21 16:40		Received: 05/14/21 14:10		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	190	mg/L	25.0	100		05/28/21 03:51	16887-00-6		
Fluoride	2.8	mg/L	1.0	10		05/28/21 03:34	16984-48-8		
Sulfate	3.8	mg/L	2.5	10		05/28/21 03:34	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	931	ug/L	100	1	05/25/21 14:56	05/26/21 11:34	7440-42-8		
Calcium	11200	ug/L	1000	1	05/25/21 14:56	05/26/21 11:34	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1160	mg/L	20.0	1		05/18/21 16:48			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.4	Std. Units	0.10	1		05/27/21 15:46		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: DUP-1		Lab ID: 50287550009		Collected: 05/12/21 08:00		Received: 05/14/21 14:10		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	327	mg/L	25.0	100		05/28/21 04:40	16887-00-6		
Fluoride	4.8	mg/L	0.10	1		05/28/21 04:07	16984-48-8		
Sulfate	0.68	mg/L	0.25	1		05/28/21 04:07	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1170	ug/L	100	1	05/25/21 14:56	05/26/21 11:37	7440-42-8		
Calcium	3360	ug/L	1000	1	05/25/21 14:56	05/26/21 11:37	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1400	mg/L	40.0	1		05/17/21 11:34			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		05/27/21 15:47		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Sample: FB-1		Lab ID: 50287550010		Collected: 05/11/21 11:10		Received: 05/14/21 14:10		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		05/27/21 22:56	16887-00-6	
	Fluoride	ND	mg/L	0.10	1		05/27/21 22:56	16984-48-8	
Sulfate	ND	mg/L	0.25	1		05/27/21 22:56	14808-79-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Indianapolis								
	Boron	ND	ug/L	100	1	05/25/21 14:56	05/26/21 11:43	7440-42-8	
	Calcium	ND	ug/L	1000	1	05/25/21 14:56	05/26/21 11:43	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Pace Analytical Services - Indianapolis								
	Total Dissolved Solids	ND	mg/L	10.0	1		05/18/21 10:57		
								PL	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
	pH at 25 Degrees C	6.8	Std. Units	0.10	1		05/27/21 15:52		
								H3	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch:	623107	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287550001, 50287550002, 50287550003, 50287550004, 50287550005, 50287550006, 50287550007, 50287550008, 50287550009		

METHOD BLANK: 2871183

Matrix: Water

Associated Lab Samples: 50287550001, 50287550002, 50287550003, 50287550004, 50287550005, 50287550006, 50287550007, 50287550008, 50287550009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/27/21 17:20	
Fluoride	mg/L	ND	0.10	05/27/21 17:20	
Sulfate	mg/L	ND	0.25	05/27/21 17:20	

LABORATORY CONTROL SAMPLE: 2871184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.50	101	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871185 2871186

Parameter	Units	50287550007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	322	125	125	463	468	113	117	80-120	1	15	
Fluoride	mg/L	4.6	5	5	10.0	10	108	108	80-120	0	15	
Sulfate	mg/L	20.5	25	25	46.4	45.2	104	99	80-120	3	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII
Pace Project No.: 50287550

QC Batch:	623217	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550010

METHOD BLANK: 2871678 Matrix: Water

Associated Lab Samples: 50287550010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/27/21 22:24	
Fluoride	mg/L	ND	0.10	05/27/21 22:24	
Sulfate	mg/L	ND	0.25	05/27/21 22:24	

LABORATORY CONTROL SAMPLE: 2871679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	96	80-120	
Fluoride	mg/L	0.5	0.48	97	80-120	
Sulfate	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871680 2871681

Parameter	Units	50287553003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	12.5	12.5	26.7	26.7	105	105	80-120	0	15	
Fluoride	mg/L	0.14	0.5	0.5	0.61	0.62	94	95	80-120	1	15	
Sulfate	mg/L	93.1	25	25	122	122	117	117	80-120	0	15	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch:	621964	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50287550001, 50287550002, 50287550003, 50287550004, 50287550005, 50287550006, 50287550007, 50287550008, 50287550009, 50287550010		

METHOD BLANK:	2866427	Matrix:	Water
Associated Lab Samples:	50287550001, 50287550002, 50287550003, 50287550004, 50287550005, 50287550006, 50287550007, 50287550008, 50287550009, 50287550010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	05/26/21 11:03	
Calcium	ug/L	ND	1000	05/26/21 11:03	

LABORATORY CONTROL SAMPLE:	2866428					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	968	97	80-120	
Calcium	ug/L	10000	9860	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	2866429			2866430								
Parameter	Units	50287550007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	1070	1000	1000	2130	2070	106	100	75-125	3	20	
Calcium	ug/L	2760	10000	10000	12700	12500	100	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch: 621009

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550010

METHOD BLANK: 2862224

Matrix: Water

Associated Lab Samples: 50287550010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/17/21 11:28	

LABORATORY CONTROL SAMPLE: 2862225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 2862226

Parameter	Units	50287512012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	311	307	1	10	

SAMPLE DUPLICATE: 2862227

Parameter	Units	50287512013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	382	5	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch: 621255

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550002, 50287550003, 50287550004

METHOD BLANK: 2863053

Matrix: Water

Associated Lab Samples: 50287550002, 50287550003, 50287550004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 10:24	

LABORATORY CONTROL SAMPLE: 2863054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 2863055

Parameter	Units	50287382001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	302	305	1	10	

SAMPLE DUPLICATE: 2863056

Parameter	Units	50287382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	349	354	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch: 621256

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550005, 50287550009

METHOD BLANK: 2863057

Matrix: Water

Associated Lab Samples: 50287550005, 50287550009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 10:54	

LABORATORY CONTROL SAMPLE: 2863058

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

SAMPLE DUPLICATE: 2863059

Parameter	Units	50287550005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1580	1580	1	10	

SAMPLE DUPLICATE: 2863060

Parameter	Units	50287430003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	485	481	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch:	621257	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550001, 50287550006

METHOD BLANK: 2863061 Matrix: Water

Associated Lab Samples: 50287550001, 50287550006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 11:40	

LABORATORY CONTROL SAMPLE: 2863062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	289	96	80-120	

SAMPLE DUPLICATE: 2863063

Parameter	Units	50287460005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1680	1680	0	10	

SAMPLE DUPLICATE: 2863064

Parameter	Units	50287462001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1390	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch: 621260

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550007, 50287550008

METHOD BLANK: 2863071

Matrix: Water

Associated Lab Samples: 50287550007, 50287550008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/21 16:47	

LABORATORY CONTROL SAMPLE: 2863072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	280	93	80-120	

SAMPLE DUPLICATE: 2863073

Parameter	Units	50287550007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1530	1520	0	10	

SAMPLE DUPLICATE: 2863074

Parameter	Units	50287550008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1160	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

QC Batch: 623200

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50287550001, 50287550002, 50287550003, 50287550004, 50287550005, 50287550006, 50287550007, 50287550008, 50287550009, 50287550010

SAMPLE DUPLICATE: 2871598

Parameter	Units	50287550007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	2	H3

SAMPLE DUPLICATE: 2871599

Parameter	Units	50287573001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merom Area 3 CCR IIII

Pace Project No.: 50287550

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50287550001	SWW-40	EPA 9056	623107		
50287550002	SWW-41	EPA 9056	623107		
50287550003	SWW-42	EPA 9056	623107		
50287550004	SWW-43	EPA 9056	623107		
50287550005	SWW-44	EPA 9056	623107		
50287550006	SWW-45	EPA 9056	623107		
50287550007	SWW-46	EPA 9056	623107		
50287550008	SWW-47	EPA 9056	623107		
50287550009	DUP-1	EPA 9056	623107		
50287550010	FB-1	EPA 9056	623217		
50287550001	SWW-40	EPA 3010	621964	EPA 6010	622877
50287550002	SWW-41	EPA 3010	621964	EPA 6010	622877
50287550003	SWW-42	EPA 3010	621964	EPA 6010	622877
50287550004	SWW-43	EPA 3010	621964	EPA 6010	622877
50287550005	SWW-44	EPA 3010	621964	EPA 6010	622877
50287550006	SWW-45	EPA 3010	621964	EPA 6010	622877
50287550007	SWW-46	EPA 3010	621964	EPA 6010	622877
50287550008	SWW-47	EPA 3010	621964	EPA 6010	622877
50287550009	DUP-1	EPA 3010	621964	EPA 6010	622877
50287550010	FB-1	EPA 3010	621964	EPA 6010	622877
50287550001	SWW-40	SM 2540C	621257		
50287550002	SWW-41	SM 2540C	621255		
50287550003	SWW-42	SM 2540C	621255		
50287550004	SWW-43	SM 2540C	621255		
50287550005	SWW-44	SM 2540C	621256		
50287550006	SWW-45	SM 2540C	621257		
50287550007	SWW-46	SM 2540C	621260		
50287550008	SWW-47	SM 2540C	621260		
50287550009	DUP-1	SM 2540C	621256		
50287550010	FB-1	SM 2540C	621009		
50287550001	SWW-40	SM 4500-H+B	623200		
50287550002	SWW-41	SM 4500-H+B	623200		
50287550003	SWW-42	SM 4500-H+B	623200		
50287550004	SWW-43	SM 4500-H+B	623200		
50287550005	SWW-44	SM 4500-H+B	623200		
50287550006	SWW-45	SM 4500-H+B	623200		
50287550007	SWW-46	SM 4500-H+B	623200		
50287550008	SWW-47	SM 4500-H+B	623200		
50287550009	DUP-1	SM 4500-H+B	623200		
50287550010	FB-1	SM 4500-H+B	623200		

REPORT OF LABORATORY ANALYSIS

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50287550

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

IN

9 of 30



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: ms 8/14/21 1515

1. Courier: ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ USPS ☐ 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 A B C D E F

4. Cooler Temperature: 35/2.9 4.0/3.4

Temp should be above freezing to 6°C (Initial/Corrected)

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

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)		<input checked="" type="checkbox"/>	All containers needing acid/base pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form	<input checked="" type="checkbox"/>		
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:		<input checked="" type="checkbox"/>	

COMMENTS:

[illegible]

Container Codes

Glass			Plastic / Misc.		
DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpres amber glass	BG3U	250mL Unpres Clear Glass
DG9H	40mL HCl amber vial	AG1H	1L HCl amber glass	BP1A	1L NaOH, Asc Acid plastic
DG9M	40mL MeOH clear vial	AG1S	1L H2SO4 amber glass	BP1N	1L HNO3 plastic
DG9P	40mL TSP amber vial	AG1T	1L Na Thiosulfate amber glass	BP1S	1L H2SO4 plastic
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass	BP1Z	1L NaOH, Zn, Ac
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass	BP2A	500mL NaOH, Asc Acid plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 amber glass	BP2O	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG3U	250mL unpres amber glass	BP2S	500mL H2SO4 plastic
VGFX	40mL w/hexane wipe vial	AG3C	250mL NaOH amber glass	BP2U	500mL unpreserved plastic
VSG	Headspace septa vial & HCl	BG1H	1L HCl clear glass	BP2Z	500mL NaOH, Zn Ac
WGKU	8oz unpreserved clear jar	BG1S	1L H2SO4 clear glass	BP3B	250mL NaOH plastic
WGFU	4oz clear soil jar	BG1T	1L Na Thiosulfate clear glass	BP3N	250mL HNO3 plastic
JGFU	4oz unpreserved amber wide	BG1U	1L unpreserved glass	BP3F	250mL HNO3 plastic (field filtered)
CG3H	250mL clear glass HCl	BG3H	250mL HCl Clear Glass		

BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Ac plastic

AF	Air Filter
C	Air Cassettes
R	Terra core kit
SP5T	120mL Coliform Na Thiosulfate
U	Summa Can
ZPLC	Ziploc Bag

WT	Water
SL	Solid
NAL	Non-aqueous liquid
WP	Wipe

January 04, 2022

Ms. Slawa Bruder
ATC Group Services
7988 Centerpoint Drive
Indianapolis, IN 46268

RE: Project: Merom Area 3 CCR III
Pace Project No.: 50303467

Dear Ms. Bruder:

Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2021. 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

Revised report replaces the original dated 12/12/21. -005 FI had to be re-run at a 1:10 dilution because it was above curve in straight sample. 12/17/21 hrp

Revised report replaces the original dated 12/17/21. -009 FI had to be re-run at a 1:10 dilution because it was above curve in straight sample. 1/4/22 hrp

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

Sincerely,



Hayden Putt
hayden.putt@pacelabs.com
(317)228-3145
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

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

Wisconsin Laboratory #: 999788130

USDA Soil Permit #: P330-19-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50303467001	SWW-40	Water	11/17/21 12:15	11/19/21 13:45
50303467002	SWW-41	Water	11/16/21 15:50	11/19/21 13:45
50303467003	SWW-42	Water	11/15/21 13:15	11/19/21 13:45
50303467004	SWW-43	Water	11/15/21 16:25	11/19/21 13:45
50303467005	SWW-44	Water	11/16/21 12:45	11/19/21 13:45
50303467006	SWW-45	Water	11/17/21 15:15	11/19/21 13:45
50303467007	SWW-46	Water	11/18/21 12:20	11/19/21 13:45
50303467008	SWW-47	Water	11/18/21 12:25	11/19/21 13:45
50303467009	DUP-1	Water	11/16/21 08:00	11/19/21 13:45
50303467010	FB-1	Water	11/18/21 12:30	11/19/21 13:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50303467001	SWW-40	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467002	SWW-41	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467003	SWW-42	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467004	SWW-43	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467005	SWW-44	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467006	SWW-45	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467007	SWW-46	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467008	SWW-47	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467009	DUP-1	EPA 9056	BK1	3	PASI-I
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I
50303467010	FB-1	EPA 9056	BK1	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JDG	2	PASI-I
		SM 2540C	OAS	1	PASI-I
		SM 4500-H+B	TKG	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50303467001	SWW-40					
EPA 9056	Chloride	191	mg/L	25.0	11/30/21 17:27	
EPA 9056	Fluoride	3.7	mg/L	0.10	11/23/21 12:42	
EPA 9056	Sulfate	17.8	mg/L	0.25	11/23/21 12:42	
EPA 6010	Boron	851	ug/L	100	12/10/21 11:13	
EPA 6010	Calcium	25400	ug/L	1000	12/10/21 11:13	
SM 2540C	Total Dissolved Solids	1160	mg/L	20.0	11/20/21 08:57	
SM 4500-H+B	pH at 25 Degrees C	8.3	Std. Units	0.10	11/20/21 13:17	H3
50303467002	SWW-41					
EPA 9056	Chloride	259	mg/L	25.0	11/23/21 13:41	
EPA 9056	Fluoride	5.0	mg/L	0.10	11/23/21 13:21	
EPA 9056	Sulfate	4.7	mg/L	0.25	11/23/21 13:21	
EPA 6010	Boron	1110	ug/L	100	12/10/21 10:42	
EPA 6010	Calcium	2360	ug/L	1000	12/10/21 10:42	
SM 2540C	Total Dissolved Solids	1450	mg/L	20.0	11/20/21 08:37	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	11/20/21 13:16	H3
50303467003	SWW-42					
EPA 9056	Chloride	302	mg/L	25.0	11/23/21 14:20	
EPA 9056	Fluoride	3.9	mg/L	0.10	11/23/21 14:01	
EPA 9056	Sulfate	0.45	mg/L	0.25	11/23/21 14:01	
EPA 6010	Boron	1230	ug/L	100	12/10/21 10:44	
EPA 6010	Calcium	1970	ug/L	1000	12/10/21 10:44	
SM 2540C	Total Dissolved Solids	1350	mg/L	20.0	11/20/21 08:35	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	11/20/21 13:14	H3
50303467004	SWW-43					
EPA 9056	Chloride	332	mg/L	25.0	11/23/21 15:00	
EPA 9056	Fluoride	4.5	mg/L	0.10	11/23/21 14:40	
EPA 9056	Sulfate	0.37	mg/L	0.25	11/23/21 14:40	
EPA 6010	Boron	1180	ug/L	100	12/10/21 10:46	
EPA 6010	Calcium	3140	ug/L	1000	12/10/21 10:46	
SM 2540C	Total Dissolved Solids	1420	mg/L	20.0	11/20/21 08:36	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	11/20/21 13:15	H3
50303467005	SWW-44					
EPA 9056	Chloride	356	mg/L	25.0	11/23/21 16:19	
EPA 9056	Fluoride	5.0	mg/L	1.0	12/17/21 06:37	
EPA 9056	Sulfate	8.2	mg/L	0.25	11/23/21 15:59	
EPA 6010	Boron	1090	ug/L	100	12/10/21 10:49	
EPA 6010	Calcium	3220	ug/L	1000	12/10/21 10:49	
SM 2540C	Total Dissolved Solids	1560	mg/L	40.0	11/20/21 08:37	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/20/21 13:16	H3
50303467006	SWW-45					
EPA 9056	Chloride	516	mg/L	25.0	11/23/21 16:58	
EPA 9056	Fluoride	4.8	mg/L	0.10	11/23/21 16:39	
EPA 6010	Boron	603	ug/L	100	12/10/21 10:51	
EPA 6010	Calcium	1580	ug/L	1000	12/10/21 10:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50303467006	SWW-45					
SM 2540C	Total Dissolved Solids	1720	mg/L	40.0	11/20/21 08:57	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/20/21 13:18	H3
50303467007	SWW-46					
EPA 9056	Chloride	337	mg/L	25.0	11/23/21 17:58	
EPA 9056	Fluoride	4.7	mg/L	0.10	11/23/21 17:18	
EPA 9056	Sulfate	17.3	mg/L	0.25	11/23/21 17:18	
EPA 6010	Boron	1100	ug/L	100	12/10/21 10:53	
EPA 6010	Calcium	2860	ug/L	1000	12/10/21 10:53	
SM 2540C	Total Dissolved Solids	1560	mg/L	40.0	11/20/21 09:08	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/20/21 13:22	H3
50303467008	SWW-47					
EPA 9056	Chloride	194	mg/L	25.0	11/23/21 21:15	
EPA 9056	Fluoride	3.0	mg/L	0.10	11/23/21 20:55	
EPA 9056	Sulfate	2.8	mg/L	0.25	11/23/21 20:55	
EPA 6010	Boron	1020	ug/L	100	12/10/21 11:07	
EPA 6010	Calcium	6540	ug/L	1000	12/10/21 11:07	
SM 2540C	Total Dissolved Solids	1170	mg/L	20.0	11/20/21 09:09	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/20/21 13:23	H3
50303467009	DUP-1					
EPA 9056	Chloride	353	mg/L	25.0	11/23/21 21:54	
EPA 9056	Fluoride	4.7	mg/L	1.0	01/03/22 20:01	
EPA 9056	Sulfate	8.2	mg/L	0.25	11/23/21 21:35	
EPA 6010	Boron	1080	ug/L	100	12/10/21 11:09	
EPA 6010	Calcium	3260	ug/L	1000	12/10/21 11:09	
SM 2540C	Total Dissolved Solids	1600	mg/L	20.0	11/20/21 08:37	
SM 4500-H+B	pH at 25 Degrees C	8.6	Std. Units	0.10	11/20/21 13:15	H3
50303467010	FB-1					
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	11/20/21 14:32	H3

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-40		Lab ID: 50303467001		Collected: 11/17/21 12:15		Received: 11/19/21 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	191	mg/L	25.0	100		11/30/21 17:27	16887-00-6		
Fluoride	3.7	mg/L	0.10	1		11/23/21 12:42	16984-48-8		
Sulfate	17.8	mg/L	0.25	1		11/23/21 12:42	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	851	ug/L	100	1	12/04/21 09:55	12/10/21 11:13	7440-42-8		
Calcium	25400	ug/L	1000	1	12/04/21 09:55	12/10/21 11:13	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1160	mg/L	20.0	1		11/20/21 08:57			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.3	Std. Units	0.10	1		11/20/21 13:17		H3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-41		Lab ID: 50303467002		Collected: 11/16/21 15:50		Received: 11/19/21 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	259	mg/L	25.0	100		11/23/21 13:41	16887-00-6		
		Fluoride	5.0	mg/L	0.10	1		11/23/21 13:21	16984-48-8		
		Sulfate	4.7	mg/L	0.25	1		11/23/21 13:21	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010									
		Pace Analytical Services - Indianapolis									
		Boron	1110	ug/L	100	1	12/04/21 09:55	12/10/21 10:42	7440-42-8		
		Calcium	2360	ug/L	1000	1	12/04/21 09:55	12/10/21 10:42	7440-70-2		
		2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Pace Analytical Services - Indianapolis											
Total Dissolved Solids	1450			mg/L	20.0	1		11/20/21 08:37			
4500H+ pH, Electrometric				Analytical Method: SM 4500-H+B							
				Pace Analytical Services - Indianapolis							
		pH at 25 Degrees C	8.5	Std. Units	0.10	1		11/20/21 13:16		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-42		Lab ID: 50303467003		Collected: 11/15/21 13:15		Received: 11/19/21 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	302	mg/L	25.0	100		11/23/21 14:20	16887-00-6		
Fluoride	3.9	mg/L	0.10	1		11/23/21 14:01	16984-48-8		
Sulfate	0.45	mg/L	0.25	1		11/23/21 14:01	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1230	ug/L	100	1	12/04/21 09:55	12/10/21 10:44	7440-42-8		
Calcium	1970	ug/L	1000	1	12/04/21 09:55	12/10/21 10:44	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1350	mg/L	20.0	1		11/20/21 08:35			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1		11/20/21 13:14		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-43		Lab ID: 50303467004		Collected: 11/15/21 16:25		Received: 11/19/21 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	332	mg/L	25.0	100		11/23/21 15:00	16887-00-6		
Fluoride	4.5	mg/L	0.10	1		11/23/21 14:40	16984-48-8		
Sulfate	0.37	mg/L	0.25	1		11/23/21 14:40	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1180	ug/L	100	1	12/04/21 09:55	12/10/21 10:46	7440-42-8		
Calcium	3140	ug/L	1000	1	12/04/21 09:55	12/10/21 10:46	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1420	mg/L	20.0	1		11/20/21 08:36			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.7	Std. Units	0.10	1		11/20/21 13:15		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-44		Lab ID: 50303467005		Collected: 11/16/21 12:45		Received: 11/19/21 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	356	mg/L	25.0	100		11/23/21 16:19	16887-00-6		
Fluoride	5.0	mg/L	1.0	10		12/17/21 06:37	16984-48-8		
Sulfate	8.2	mg/L	0.25	1		11/23/21 15:59	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1090	ug/L	100	1	12/04/21 09:55	12/10/21 10:49	7440-42-8		
Calcium	3220	ug/L	1000	1	12/04/21 09:55	12/10/21 10:49	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1560	mg/L	40.0	1		11/20/21 08:37			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/20/21 13:16		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-45		Lab ID: 50303467006		Collected: 11/17/21 15:15		Received: 11/19/21 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	516	mg/L	25.0	100		11/23/21 16:58	16887-00-6	
		Fluoride	4.8	mg/L	0.10	1		11/23/21 16:39	16984-48-8	
		Sulfate	ND	mg/L	0.25	1		11/23/21 16:39	14808-79-8	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010								
		Pace Analytical Services - Indianapolis								
		Boron	603	ug/L	100	1	12/04/21 09:55	12/10/21 10:51	7440-42-8	
Calcium	1580	ug/L	1000	1	12/04/21 09:55	12/10/21 10:51	7440-70-2			
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
		Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1720	mg/L	40.0	1			11/20/21 08:57			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B								
		Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	8.6	Std. Units	0.10	1			11/20/21 13:18		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-46		Lab ID: 50303467007		Collected: 11/18/21 12:20		Received: 11/19/21 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	337	mg/L	25.0	100		11/23/21 17:58	16887-00-6		
Fluoride	4.7	mg/L	0.10	1		11/23/21 17:18	16984-48-8		
Sulfate	17.3	mg/L	0.25	1		11/23/21 17:18	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1100	ug/L	100	1	12/04/21 09:55	12/10/21 10:53	7440-42-8		
Calcium	2860	ug/L	1000	1	12/04/21 09:55	12/10/21 10:53	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1560	mg/L	40.0	1		11/20/21 09:08			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/20/21 13:22		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: SWW-47		Lab ID: 50303467008		Collected: 11/18/21 12:25		Received: 11/19/21 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	194	mg/L	25.0	100		11/23/21 21:15	16887-00-6		
Fluoride	3.0	mg/L	0.10	1		11/23/21 20:55	16984-48-8		
Sulfate	2.8	mg/L	0.25	1		11/23/21 20:55	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1020	ug/L	100	1	12/04/21 09:55	12/10/21 11:07	7440-42-8		
Calcium	6540	ug/L	1000	1	12/04/21 09:55	12/10/21 11:07	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1170	mg/L	20.0	1		11/20/21 09:09			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/20/21 13:23		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: DUP-1		Lab ID: 50303467009		Collected: 11/16/21 08:00		Received: 11/19/21 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	353	mg/L	25.0	100		11/23/21 21:54	16887-00-6		
Fluoride	4.7	mg/L	1.0	10		01/03/22 20:01	16984-48-8		
Sulfate	8.2	mg/L	0.25	1		11/23/21 21:35	14808-79-8		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Boron	1080	ug/L	100	1	12/04/21 09:55	12/10/21 11:09	7440-42-8		
Calcium	3260	ug/L	1000	1	12/04/21 09:55	12/10/21 11:09	7440-70-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1600	mg/L	20.0	1		11/20/21 08:37			
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis							
pH at 25 Degrees C	8.6	Std. Units	0.10	1		11/20/21 13:15		H3	

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ANALYTICAL RESULTS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Sample: FB-1		Lab ID: 50303467010		Collected: 11/18/21 12:30		Received: 11/19/21 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		11/23/21 22:14	16887-00-6	
	Fluoride	ND	mg/L	0.10	1		11/23/21 22:14	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/23/21 22:14	14808-79-8		
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Pace Analytical Services - Indianapolis								
	Boron	ND	ug/L	100	1	12/04/21 09:55	12/10/21 11:11	7440-42-8	
Calcium	ND	ug/L	1000	1	12/04/21 09:55	12/10/21 11:11	7440-70-2		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
	Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		11/20/21 09:09		PL	
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
	Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	7.9	Std. Units	0.10	1		11/20/21 14:32		H3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch:	651906	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50303467001, 50303467002, 50303467003, 50303467004, 50303467005, 50303467006, 50303467007, 50303467008, 50303467009, 50303467010		

METHOD BLANK: 3004703

Matrix: Water

Associated Lab Samples: 50303467001, 50303467002, 50303467003, 50303467004, 50303467005, 50303467006, 50303467007, 50303467008, 50303467009, 50303467010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/23/21 12:02	
Fluoride	mg/L	ND	0.10	11/23/21 12:02	
Sulfate	mg/L	ND	0.25	11/23/21 12:02	

LABORATORY CONTROL SAMPLE: 3004704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	0.5	0.50	100	80-120	
Sulfate	mg/L	2.5	2.5	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3004705 3004706

Parameter	Units	50303467007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	337	125	125	449	449	90	89	80-120	0	15	
Fluoride	mg/L	4.7	50	50	52.9	52.9	96	96	80-120	0	15	
Sulfate	mg/L	17.3	2.5	2.5	19.7	19.7	95	96	80-120	0	15	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch:	653456	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50303467001, 50303467002, 50303467003, 50303467004, 50303467005, 50303467006, 50303467007, 50303467008, 50303467009, 50303467010		

METHOD BLANK:	3011021	Matrix:	Water
Associated Lab Samples:	50303467001, 50303467002, 50303467003, 50303467004, 50303467005, 50303467006, 50303467007, 50303467008, 50303467009, 50303467010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	ug/L	ND	100	12/10/21 10:15	
Calcium	ug/L	ND	1000	12/10/21 10:15	

LABORATORY CONTROL SAMPLE:	3011022					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	975	97	80-120	
Calcium	ug/L	5000	4890	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3011023			3011024								
Parameter	Units	50303467007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	ug/L	1100	1000	1000	2070	2200	97	111	75-125	6	20	
Calcium	ug/L	2860	5000	5000	7620	8080	95	104	75-125	6	20	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch:	651726	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50303467002, 50303467003, 50303467004, 50303467005, 50303467009

METHOD BLANK: 3004162 Matrix: Water

Associated Lab Samples: 50303467002, 50303467003, 50303467004, 50303467005, 50303467009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/20/21 08:35	

LABORATORY CONTROL SAMPLE: 3004163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	302	101	80-120	

SAMPLE DUPLICATE: 3004164

Parameter	Units	50303467003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1350	1350	0	10	

SAMPLE DUPLICATE: 3004165

Parameter	Units	50303467004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1420	1370	4	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch: 651729

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50303467001, 50303467006

METHOD BLANK: 3004170

Matrix: Water

Associated Lab Samples: 50303467001, 50303467006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/20/21 08:55	

LABORATORY CONTROL SAMPLE: 3004171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	297	99	80-120	

SAMPLE DUPLICATE: 3004172

Parameter	Units	50303289004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	578	597	3	10	

SAMPLE DUPLICATE: 3004173

Parameter	Units	50303289005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3170	3240	2	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch:	651730	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis
Associated Lab Samples:	50303467007, 50303467008, 50303467010		

METHOD BLANK: 3004174 Matrix: Water

Associated Lab Samples: 50303467007, 50303467008, 50303467010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/20/21 09:05	

LABORATORY CONTROL SAMPLE: 3004175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	80-120	

SAMPLE DUPLICATE: 3004176

Parameter	Units	50303369003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27300	25500	7	10	

SAMPLE DUPLICATE: 3004177

Parameter	Units	50303467007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1560	1540	1	10	

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch: 651778

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50303467001, 50303467002, 50303467003, 50303467004, 50303467005, 50303467006, 50303467007, 50303467008, 50303467009

SAMPLE DUPLICATE: 3004323

Parameter	Units	50303369003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.3	6.4	0	2	H3

SAMPLE DUPLICATE: 3004324

Parameter	Units	50303467007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.6	0	2	H3

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QUALITY CONTROL DATA

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

QC Batch: 651785

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50303467010

SAMPLE DUPLICATE: 3004396

Parameter	Units	50302718001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	2	2	H3

SAMPLE DUPLICATE: 3004397

Parameter	Units	50302717007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

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QUALIFIERS

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

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

H3 Sample was received or analysis requested beyond the recognized method holding time.

PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Merom Area 3 CCR III

Pace Project No.: 50303467

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50303467001	SWW-40	EPA 9056	651906		
50303467002	SWW-41	EPA 9056	651906		
50303467003	SWW-42	EPA 9056	651906		
50303467004	SWW-43	EPA 9056	651906		
50303467005	SWW-44	EPA 9056	651906		
50303467006	SWW-45	EPA 9056	651906		
50303467007	SWW-46	EPA 9056	651906		
50303467008	SWW-47	EPA 9056	651906		
50303467009	DUP-1	EPA 9056	651906		
50303467010	FB-1	EPA 9056	651906		
50303467001	SWW-40	EPA 3010	653456	EPA 6010	654107
50303467002	SWW-41	EPA 3010	653456	EPA 6010	654107
50303467003	SWW-42	EPA 3010	653456	EPA 6010	654107
50303467004	SWW-43	EPA 3010	653456	EPA 6010	654107
50303467005	SWW-44	EPA 3010	653456	EPA 6010	654107
50303467006	SWW-45	EPA 3010	653456	EPA 6010	654107
50303467007	SWW-46	EPA 3010	653456	EPA 6010	654107
50303467008	SWW-47	EPA 3010	653456	EPA 6010	654107
50303467009	DUP-1	EPA 3010	653456	EPA 6010	654107
50303467010	FB-1	EPA 3010	653456	EPA 6010	654107
50303467001	SWW-40	SM 2540C	651729		
50303467002	SWW-41	SM 2540C	651726		
50303467003	SWW-42	SM 2540C	651726		
50303467004	SWW-43	SM 2540C	651726		
50303467005	SWW-44	SM 2540C	651726		
50303467006	SWW-45	SM 2540C	651729		
50303467007	SWW-46	SM 2540C	651730		
50303467008	SWW-47	SM 2540C	651730		
50303467009	DUP-1	SM 2540C	651726		
50303467010	FB-1	SM 2540C	651730		
50303467001	SWW-40	SM 4500-H+B	651778		
50303467002	SWW-41	SM 4500-H+B	651778		
50303467003	SWW-42	SM 4500-H+B	651778		
50303467004	SWW-43	SM 4500-H+B	651778		
50303467005	SWW-44	SM 4500-H+B	651778		
50303467006	SWW-45	SM 4500-H+B	651778		
50303467007	SWW-46	SM 4500-H+B	651778		
50303467008	SWW-47	SM 4500-H+B	651778		
50303467009	DUP-1	SM 4500-H+B	651778		
50303467010	FB-1	SM 4500-H+B	651785		

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50303467

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

IN

20 of 28 (Y/N)



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MCS 4/19/21 1436

1. Courier: ☐ FED EX ☐ UPS ☒ CLIENT ☐ PACE ☐ USPS ☐ 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 A B C D E F

4. Cooler Temperature: 4.9 13.9°C
Temp should be above freezing to 6°C (Initial/Corrected)

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

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 pres. Have been CHECKED?: exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		—	Circle: HNO ₃ (<2) H ₂ SO ₄ (<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?			—
			Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	—					—
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:

SBS
DI
MeOH
(only)
BK
Kit

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

COC Line Item	WGUFU	R	DG9H	VG9H	VOA VIAL HS (≥6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	Syringe Kit	Matrix	HNO3/ H2SO4 pH <2	NaOH/ ZnAc pH >9	NaOH pH>10
1																			3	1							3	✓		
2																														
3																														
4																														
5																														
6																														
7																			9	3										
8																			3	3										
9																														
10																														
11																												7		
12																												✓		

Container Codes

Glass				Plastic / Misc.			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	Syringe Kit LL Cr+6 sampling kit	
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	AF	Air Filter
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic	C	Air Cassettes
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	R	Terracore kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	SP5T	120mL Coliform Na Thiosulfate
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	U	Summa Can
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	ZPLC	Ziploc Bag
WGUFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	WT	Water
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	NAL	Non-aqueous liquid
BG1H	1L HCl clear glass	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	WP	Wipe
BG1S	1L H2SO4 clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	Oil	
GN	General	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic		