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By Haley Griffith at 2:29 pm, Jan 29, 2024

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Haley Griffith (adpce.ad)

From: Stacy Kennedy <Stacy.Kennedy@pacelabs.com>
Sent: Sunday, January 28, 2024 4:15 PM
To: gwreports
Subject: Lab Report Submittal for WM Eco-Vista (4 of 4)
Attachments: L1686474.pdf; L1686168.pdf

Good afternoon,
(4 of 4)

Please accept the following lab reports for Eco-Vista Landfill: Monthly GW/LCS/LDS, 3Q23, and 4Q23

- L1632964
- L1633566
- L1633891
- L1633864
- L1642293
- L1642810
- L1652528
- L1653195
- L1662806
- L1663702
- L1664045
- L1674004
- L1674883
- L1686168
- L1686474

Thank you,

Stacy Kennedy
Project Manager I
12065 Lebanon Road | Mt. Juliet, TN 37122
(office)615.773.7453
Stacy.Kennedy@pacelabs.com | www.pacenational.com

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Eco-Vista (Tontitown)LF

Sample Delivery Group: L1686474
Samples Received: 12/09/2023
Project Number: 300
Description: Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, Dec
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:



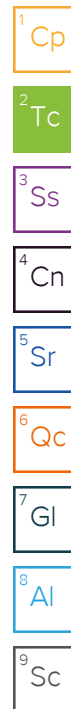
Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

LCS-1 L1686474-01 GW

Collected by CF Collected date/time 12/08/23 09:08 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 11:55	12/15/23 11:55	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 00:45	12/23/23 00:45	GEB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LCS-2 L1686474-02 GW

Collected by CF Collected date/time 12/08/23 09:30 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 11:57	12/15/23 11:57	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	20	12/23/23 01:23	12/23/23 01:23	GEB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

LCS-3 L1686474-03 GW

Collected by CF Collected date/time 12/08/23 10:00 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 11:58	12/15/23 11:58	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 01:32	12/23/23 01:32	GEB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

LCS-4 L1686474-04 GW

Collected by CF Collected date/time 12/08/23 10:30 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:00	12/15/23 12:00	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 01:42	12/23/23 01:42	GEB	Mt. Juliet, TN

LCS-5 L1686474-05 GW

Collected by CF Collected date/time 12/08/23 11:00 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:01	12/15/23 12:01	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	100	12/23/23 01:51	12/23/23 01:51	GEB	Mt. Juliet, TN

LCS-6 L1686474-06 GW

Collected by CF Collected date/time 12/08/23 11:30 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:03	12/15/23 12:03	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 02:20	12/23/23 02:20	GEB	Mt. Juliet, TN

LCS-7 L1686474-07 GW

Collected by CF Collected date/time 12/08/23 12:00 Received date/time 12/09/23 09:00

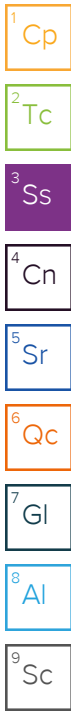
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:04	12/15/23 12:04	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 02:30	12/23/23 02:30	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

LCS-8 L1686474-08 GW

Collected by: CF
 Collected date/time: 12/08/23 12:30
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:06	12/15/23 12:06	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 02:39	12/23/23 02:39	GEB	Mt. Juliet, TN



LCS-9 L1686474-09 GW

Collected by: CF
 Collected date/time: 12/08/23 13:00
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:12	12/15/23 12:12	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 02:49	12/23/23 02:49	GEB	Mt. Juliet, TN

LCS-10 L1686474-10 GW

Collected by: CF
 Collected date/time: 12/08/23 13:30
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:13	12/15/23 12:13	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	20	12/23/23 02:58	12/23/23 02:58	GEB	Mt. Juliet, TN

LCS-11 L1686474-11 GW

Collected by: CF
 Collected date/time: 12/08/23 14:00
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:15	12/15/23 12:15	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	100	12/23/23 03:08	12/23/23 03:08	GEB	Mt. Juliet, TN

LCS-12 L1686474-12 GW

Collected by: CF
 Collected date/time: 12/08/23 14:30
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:16	12/15/23 12:16	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	20	12/23/23 03:17	12/23/23 03:17	GEB	Mt. Juliet, TN

LDS-1 L1686474-13 GW

Collected by: CF
 Collected date/time: 12/08/23 09:15
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	5	12/15/23 12:18	12/15/23 12:18	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	5	12/23/23 03:27	12/23/23 03:27	GEB	Mt. Juliet, TN

LDS-2 L1686474-14 GW

Collected by: CF
 Collected date/time: 12/08/23 09:45
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	5	12/15/23 12:24	12/15/23 12:24	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	5	12/23/23 03:36	12/23/23 03:36	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

LDS-3 L1686474-15 GW

Collected by: CF
 Collected date/time: 12/08/23 10:15
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	100	12/15/23 12:33	12/15/23 12:33	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	20	12/23/23 03:46	12/23/23 03:46	GEB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LDS-4 L1686474-16 GW

Collected by: CF
 Collected date/time: 12/08/23 10:45
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:34	12/15/23 12:34	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 04:14	12/23/23 04:14	GEB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

LDS-5 L1686474-17 GW

Collected by: CF
 Collected date/time: 12/08/23 11:15
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	500	12/15/23 12:36	12/15/23 12:36	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 04:24	12/23/23 04:24	GEB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

LDS-6 L1686474-18 GW

Collected by: CF
 Collected date/time: 12/08/23 11:45
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	50	12/15/23 12:37	12/15/23 12:37	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 04:33	12/23/23 04:33	GEB	Mt. Juliet, TN

LDS-7 L1686474-19 GW

Collected by: CF
 Collected date/time: 12/08/23 12:15
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	200	12/15/23 12:39	12/15/23 12:39	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	5	12/23/23 04:43	12/23/23 04:43	GEB	Mt. Juliet, TN

LDS-8 L1686474-20 GW

Collected by: CF
 Collected date/time: 12/08/23 12:45
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2189218	100	12/15/23 12:40	12/15/23 12:40	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192874	10	12/23/23 04:52	12/23/23 04:52	GEB	Mt. Juliet, TN

LDS-9 L1686474-21 GW

Collected by: CF
 Collected date/time: 12/08/23 13:15
 Received date/time: 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186907	20	12/14/23 12:49	12/14/23 12:49	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192875	1	12/21/23 04:26	12/21/23 04:26	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

LDS-10 L1686474-22 GW

Collected by CF Collected date/time 12/08/23 13:45 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186907	200	12/14/23 12:51	12/14/23 12:51	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192875	10	12/21/23 04:36	12/21/23 04:36	GEB	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

LDS-11 L1686474-23 GW

Collected by CF Collected date/time 12/08/23 14:15 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186907	500	12/14/23 12:52	12/14/23 12:52	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192875	100	12/21/23 04:45	12/21/23 04:45	GEB	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

LDS-12 L1686474-24 GW

Collected by CF Collected date/time 12/08/23 14:45 Received date/time 12/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186907	100	12/14/23 12:58	12/14/23 12:58	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192875	10	12/21/23 04:55	12/21/23 04:55	GEB	Mt. Juliet, TN

⁷ Gl

⁸ Al

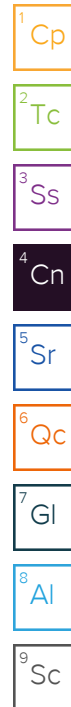
⁹ Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager



Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2186907	350.1	L1686474-22, 23, 24
WG2189218	350.1	L1686474-01, 02, 03, 04, 05, 06, 07, 09, 10, 11, 12, 15, 16, 17

Wet Chemistry by Method 9056A

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2192874	(MS) R4016237-4, (MS) R4016237-7, (MSD) R4016237-5, L1686474-01, 20	Chloride

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2192875	(MS) R4015302-7	Chloride

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.75	su
Specific Conductance (on site)	7044	umhos/cm
Temperature (on-site)	17.6	Deg. C
Turbidity (on-site)	98.43	NTU
Dissolved Oxygen (on-site)	5.71	mg/l
eH/ORP (On Site)	-225.4	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	2000		15.8	500	12/15/2023 11:55	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1780	<u>V</u>	3.00	10	12/23/2023 00:45	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.33	su
Specific Conductance (on site)	8690	umhos/cm
Temperature (on-site)	14	Deg. C
Turbidity (on-site)	168.2	NTU
Dissolved Oxygen (on-site)	3.98	mg/l
eH/ORP (On Site)	-181.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1270		15.8	500	12/15/2023 11:57	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1860		3.00	20	12/23/2023 01:23	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.47	su
Specific Conductance (on site)	8387	umhos/cm
Temperature (on-site)	14.2	Deg. C
Turbidity (on-site)	21.03	NTU
Dissolved Oxygen (on-site)	7.69	mg/l
eH/ORP (On Site)	-140.9	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1180		15.8	500	12/15/2023 11:58	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1380		3.00	10	12/23/2023 01:32	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.35	su
Specific Conductance (on site)	13410	umhos/cm
Temperature (on-site)	24.4	Deg. C
Turbidity (on-site)	74.12	NTU
Dissolved Oxygen (on-site)	1.91	mg/l
eH/ORP (On Site)	-199.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	956		15.8	500	12/15/2023 12:00	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1060		3.00	10	12/23/2023 01:42	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.87	su
Specific Conductance (on site)	18711	umhos/cm
Temperature (on-site)	23.6	Deg. C
Turbidity (on-site)	482.71	NTU
Dissolved Oxygen (on-site)	1.83	mg/l
eH/ORP (On Site)	-264.2	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	2940		15.8	500	12/15/2023 12:01	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2600		5.19	100	12/23/2023 01:51	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.27	su
Specific Conductance (on site)	12449	umhos/cm
Temperature (on-site)	16.4	Deg. C
Turbidity (on-site)	46.38	NTU
Dissolved Oxygen (on-site)	4.37	mg/l
eH/ORP (On Site)	-95.9	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	927		15.8	500	12/15/2023 12:03	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1210		3.00	10	12/23/2023 02:20	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.37	su
Specific Conductance (on site)	17624	umhos/cm
Temperature (on-site)	26.2	Deg. C
Turbidity (on-site)	88.09	NTU
Dissolved Oxygen (on-site)	3.81	mg/l
eH/ORP (On Site)	-163.5	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1370		15.8	500	12/15/2023 12:04	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1740		3.00	10	12/23/2023 02:30	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.34	su
Specific Conductance (on site)	12232	umhos/cm
Temperature (on-site)	23.6	Deg. C
Turbidity (on-site)	26.23	NTU
Dissolved Oxygen (on-site)	5.24	mg/l
eH/ORP (On Site)	-47.4	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	786		6.34	200	12/15/2023 12:06	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1050		3.00	10	12/23/2023 02:39	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.53	su
Specific Conductance (on site)	18719	umhos/cm
Temperature (on-site)	29.4	Deg. C
Turbidity (on-site)	27.43	NTU
Dissolved Oxygen (on-site)	3.41	mg/l
eH/ORP (On Site)	7.4	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1320		6.34	200	12/15/2023 12:12	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1710		3.00	10	12/23/2023 02:49	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.61	su
Specific Conductance (on site)	24170	umhos/cm
Temperature (on-site)	28.7	Deg. C
Turbidity (on-site)	53.25	NTU
Dissolved Oxygen (on-site)	1.1	mg/l
eH/ORP (On Site)	-223	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1950		6.34	200	12/15/2023 12:13	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2280		3.00	20	12/23/2023 02:58	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.96	su
Specific Conductance (on site)	25155	umhos/cm
Temperature (on-site)	28	Deg. C
Turbidity (on-site)	447.12	NTU
Dissolved Oxygen (on-site)	3.86	mg/l
eH/ORP (On Site)	-131	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	2820		15.8	500	12/15/2023 12:15	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2630		5.19	100	12/23/2023 03:08	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.54	su
Specific Conductance (on site)	28091	umhos/cm
Temperature (on-site)	30.4	Deg. C
Turbidity (on-site)	46.4	NTU
Dissolved Oxygen (on-site)	2.45	mg/l
eH/ORP (On Site)	-167.1	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1950		6.34	200	12/15/2023 12:16	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2150		3.00	20	12/23/2023 03:17	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.68	su
Specific Conductance (on site)	5439	umhos/cm
Temperature (on-site)	16.7	Deg. C
Turbidity (on-site)	18.14	NTU
Dissolved Oxygen (on-site)	5.09	mg/l
eH/ORP (On Site)	-154	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	17.8		0.158	5	12/15/2023 12:18	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	343		3.00	5	12/23/2023 03:27	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.73	su
Specific Conductance (on site)	4015	umhos/cm
Temperature (on-site)	16.2	Deg. C
Turbidity (on-site)	2.64	NTU
Dissolved Oxygen (on-site)	5.61	mg/l
eH/ORP (On Site)	-133.4	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	8.40		0.158	5	12/15/2023 12:24	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	360		3.00	5	12/23/2023 03:36	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.37	su
Specific Conductance (on site)	12020	umhos/cm
Temperature (on-site)	14.1	Deg. C
Turbidity (on-site)	14.38	NTU
Dissolved Oxygen (on-site)	3.53	mg/l
eH/ORP (On Site)	-178.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	192		3.17	100	12/15/2023 12:33	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1890		3.00	20	12/23/2023 03:46	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.38	su
Specific Conductance (on site)	14340	umhos/cm
Temperature (on-site)	21.7	Deg. C
Turbidity (on-site)	15.47	NTU
Dissolved Oxygen (on-site)	2.87	mg/l
eH/ORP (On Site)	-209.3	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1430		6.34	200	12/15/2023 12:34	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1670		3.00	10	12/23/2023 04:14	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.3	su
Specific Conductance (on site)	9711	umhos/cm
Temperature (on-site)	20.1	Deg. C
Turbidity (on-site)	6.57	NTU
Dissolved Oxygen (on-site)	4.28	mg/l
eH/ORP (On Site)	-141.5	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	302		15.8	500	12/15/2023 12:36	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	795		3.00	10	12/23/2023 04:24	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.6	su
Specific Conductance (on site)	12193	umhos/cm
Temperature (on-site)	19.8	Deg. C
Turbidity (on-site)	2.59	NTU
Dissolved Oxygen (on-site)	3.73	mg/l
eH/ORP (On Site)	-132.5	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	184		1.58	50	12/15/2023 12:37	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1380		3.00	10	12/23/2023 04:33	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.35	su
Specific Conductance (on site)	6697	umhos/cm
Temperature (on-site)	18.5	Deg. C
Turbidity (on-site)	7.48	NTU
Dissolved Oxygen (on-site)	5.54	mg/l
eH/ORP (On Site)	-127.6	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	93.6		6.34	200	12/15/2023 12:39	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	289		3.00	5	12/23/2023 04:43	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.21	su
Specific Conductance (on site)	13556	umhos/cm
Temperature (on-site)	24.6	Deg. C
Turbidity (on-site)	8.38	NTU
Dissolved Oxygen (on-site)	3.71	mg/l
eH/ORP (On Site)	-66.1	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	714		3.17	100	12/15/2023 12:40	WG2189218

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	990	<u>V</u>	3.00	10	12/23/2023 04:52	WG2192874

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.22	su
Specific Conductance (on site)	2981	umhos/cm
Temperature (on-site)	24.4	Deg. C
Turbidity (on-site)	3.03	NTU
Dissolved Oxygen (on-site)	4.1	mg/l
eH/ORP (On Site)	-110	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	12.7		0.634	20	12/14/2023 12:49	WG2186907

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	89.7		3.00	1	12/21/2023 04:26	WG2192875

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.09	su
Specific Conductance (on site)	16351	umhos/cm
Temperature (on-site)	25.9	Deg. C
Turbidity (on-site)	13.79	NTU
Dissolved Oxygen (on-site)	1.79	mg/l
eH/ORP (On Site)	-194	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	746		6.34	200	12/14/2023 12:51	WG2186907

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1140		3.00	10	12/21/2023 04:36	WG2192875

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.73	su
Specific Conductance (on site)	31049	umhos/cm
Temperature (on-site)	26.1	Deg. C
Turbidity (on-site)	78.87	NTU
Dissolved Oxygen (on-site)	1.74	mg/l
eH/ORP (On Site)	-216.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	1790		15.8	500	12/14/2023 12:52	WG2186907

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	2690		5.19	100	12/21/2023 04:45	WG2192875

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.3	su
Specific Conductance (on site)	25555	umhos/cm
Temperature (on-site)	27.3	Deg. C
Turbidity (on-site)	177.7	NTU
Dissolved Oxygen (on-site)	2.6	mg/l
eH/ORP (On Site)	-178.7	mV

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	920		3.17	100	12/14/2023 12:58	WG2186907

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	1610		3.00	10	12/21/2023 04:55	WG2192875

Method Blank (MB)

(MB) R4012627-1 12/14/23 12:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1686325-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1686325-02 12/14/23 12:42 • (DUP) R4012627-3 12/14/23 12:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1686946-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1686946-05 12/14/23 13:03 • (DUP) R4012627-6 12/14/23 13:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4012627-2 12/14/23 12:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.40	98.7	90.0-110	

L1686325-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686325-02 12/14/23 12:42 • (MS) R4012627-4 12/14/23 12:45 • (MSD) R4012627-5 12/14/23 12:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.06	5.06	101	101	1	90.0-110			0.0988	10

L1686946-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686946-05 12/14/23 13:03 • (MS) R4012627-7 12/14/23 13:06

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.27	105	1	90.0-110	

Method Blank (MB)

(MB) R4013127-1 12/15/23 11:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1686474-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1686474-13 12/15/23 12:18 • (DUP) R4013127-3 12/15/23 12:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	17.8	17.6	5	1.25		10

L1686474-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1686474-14 12/15/23 12:24 • (DUP) R4013127-6 12/15/23 12:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	8.40	8.62	5	2.61		10

Laboratory Control Sample (LCS)

(LCS) R4013127-2 12/15/23 11:48

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.38	98.4	90.0-110	

L1686474-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686474-13 12/15/23 12:18 • (MS) R4013127-4 12/15/23 12:21 • (MSD) R4013127-5 12/15/23 12:22

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	25.0	17.8	41.2	41.7	93.4	95.5	5	90.0-110			1.27	10

L1686474-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686474-14 12/15/23 12:24 • (MS) R4013127-7 12/15/23 12:31

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	25.0	8.40	33.4	100	5	90.0-110	

Method Blank (MB)

(MB) R4016237-1 12/23/23 00:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1686474-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1686474-01 12/23/23 00:45 • (DUP) R4016237-3 12/23/23 00:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1780	1720	10	3.54		15

L1686474-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1686474-20 12/23/23 04:52 • (DUP) R4016237-6 12/23/23 05:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	990	959	10	3.15		15

Laboratory Control Sample (LCS)

(LCS) R4016237-2 12/23/23 00:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.9	102	80.0-120	

L1686474-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686474-01 12/23/23 00:45 • (MS) R4016237-4 12/23/23 01:04 • (MSD) R4016237-5 12/23/23 01:13

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	1780	1430	1430	0.000	0.000	10	80.0-120	V	V	0.380	15

Sample Narrative:

MS: [spike failed due to high CL hit in parent]

MSD: [spike failed due to high CL hit in parent]

L1686474-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686474-20 12/23/23 04:52 • (MS) R4016237-7 12/23/23 05:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	990	824	0.000	10	80.0-120	<u>V</u>

Sample Narrative:

MS: [spike failed due to high CL hit in parent]

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4015302-1 12/21/23 04:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	0.0524		0.0519	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1686494-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1686494-09 12/21/23 06:39 • (DUP) R4015302-3 12/21/23 06:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	17.2	17.2	1	0.00291		15

L1686573-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1686573-03 12/21/23 08:34 • (DUP) R4015302-6 12/21/23 08:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	99.3	99.2	1	0.145		15

Laboratory Control Sample (LCS)

(LCS) R4015302-2 12/21/23 04:17

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.6	101	80.0-120	

L1686494-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686494-09 12/21/23 06:39 • (MS) R4015302-4 12/21/23 06:58 • (MSD) R4015302-5 12/21/23 07:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	17.2	54.4	54.0	92.9	92.1	1	80.0-120			0.606	15

L1686573-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686573-03 12/21/23 08:34 • (MS) R4015302-7 12/21/23 08:53

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	99.3	120	50.7	1	80.0-120	J6

L1686573-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686573-03 12/21/23 08:34 • (MS) R4015302-7 12/21/23 08:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
---------	----------------------	-------------------------	-------------------	--------------	----------	------------------	---------------------

Sample Narrative:

MS: Spike failure due to matrix interference

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

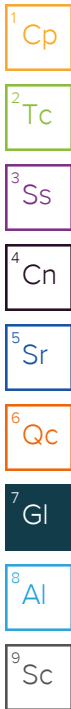
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1686474**
D018

Acctnum: **WMECOVISAR**

Template: **T161046**

Prelogin: **P1038071**

PM: **616 - Stacy Kennedy**

PB: **02/11/23**

Shipped Via: **FedEx Ground**

Report to: **Jodi Reynolds**
Email To: **ciara.childers.beavers@jettenviro.com; jeffholm**

Project Description: **Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De**
City/State Collected: _____ Please Circle: **PT MT CT ET**

Phone: **501-993-8966**
Client Project # **300**
Lab Project # **WMECOVISAR-00005**

Collected by (print): **Chris Fincher**
Site/Facility ID # **AR03**
P.O. # _____

Collected by (signature): *[Signature]*
Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed _____
No. of Cntrs _____

Immediately Packed on Ice N ___ Y **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLORIDE 125mlHDPE-NoPres	NH3 250mlHDPE-H2SO4	Analysis	Container	Preservative	Remarks	Sample # (lab only)
LCS-1	Grab	GW	N/A	11.8.23	0900	2	X	X					- 01
LCS-2		GW			0930	2	X	X					- 02
LCS-3		GW			1000	2	X	X					- 03
LCS-4		GW			1030	2	X	X					- 04
LCS-5		GW			1100	2	X	X					- 05
LCS-6		GW			1130	2	X	X					- 06
LCS-7		GW			1200	2	X	X					- 07
LCS-8		GW			1230	2	X	X					- 08
LCS-9		GW			1300	2	X	X					- 09
LCS-10		GW			1330	2	X	X					- 10

Collection date is 12/8/23 per C.Fincher. SK 12/18/23

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr: <input type="checkbox"/> Y <input type="checkbox"/> N	

Samples returned via: _____ Tracking # **6643 4318 2733**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 12.8.23	Time: 1530	Received by: (Signature) _____	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature) _____	Date: _____	Time: _____	Received by: (Signature) _____	Temp: COABC Bottles Received: 3.5+0=3.5 48
Relinquished by: (Signature) _____	Date: _____	Time: _____	Received for lab by: (Signature) <i>Alexa Mitchell</i>	Date: 12/9/23 Time: 0900 Hold: _____ Condition: NCF / OK

Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
 Russellville, AR 72801

Billing information:
 jreyno10@wm.com
 P.O. Box 4745
 WM A/P DEPARTMENT
 Portland, OR 97208-4745

Pres
 Chk

Report to:
Jodi Reynolds

Email To:
 ciara.childers.beavers@jettenviro.com;jeffholm

Project Description:
Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State
 Collected:

Please Circle:
 PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMECOVISAR-00005

Collected by (print):
Chris Finley

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Date Results Needed

Immediately
 Packed on Ice N ___ Y

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs
LCS-11	Grab	GW	N/A	11.8.23	1400	2
LCS-12		GW			1430	2
LDS-1		GW			0915	2
LDS-2		GW			0945	2
LDS-3		GW			1015	2
LDS-4		GW			1045	2
LDS-5		GW			1115	2
LDS-6		GW			1145	2
LDS-7		GW			1215	2
LDS-8		GW			1245	2

CHLORIDE 125mLHDPE-NoPres

NH3 250mLHDPE-H2SO4

Analysis / Container / Preservative

Chain of Custody Page of



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1686474**
 Table #
 Acctnum: **WMECOVISAR**
 Template: **T161046**
 Prelogin: **P1038071**
 PM: **616 - Stacy Kennedy**
 PB: *8/11/23*
 Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	___ NP <input checked="" type="checkbox"/> Y ___ N
COC Signed/Accurate:	___ Y ___ N
Bottles arrive intact:	___ Y ___ N
Correct bottles used:	___ Y ___ N
Sufficient volume sent:	___ Y ___ N
If Applicable	
VOA Zero Headspace:	___ Y ___ N
Preservation Correct/Checked:	___ Y ___ N
RAD Screen <0.5 mR/hr:	___ Y ___ N

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking # **6643 4318 2733**

Relinquished by: (Signature)
[Signature]

Date: **12/23**

Time: **1530**

Received by: (Signature)

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **COAC** Bottles Received:
3.570 = 3.5 48

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
Alexa Mitchell

Date: **12/19/23** Time: **0900**

Hold: Condition: NCF / OK

Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:
jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to: **Jodi Reynolds**
Email To: **ciara.childers.beavers@jettenviro.com;jeffholm**

Project Description: **Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De**
City/State Collected: _____ Please Circle: PT MT CT ET

Phone: **501-993-8966**
Client Project #: **300**
Lab Project #: **WMECOVISAR-00005**

Collected by (print): *Chris Fowler*
Site/Facility ID #: **AR03**
P.O. #: _____

Collected by (signature): *[Signature]*
Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day
 Date Results Needed: _____
 No. of Cntrs: _____

Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	NH3 250mlHDPE-H2SO4												
LDS-9	Grab	GW	N/A	12.8.23	1315	2	X	X												
LDS-10	↓	GW	↓	↓	1345	2	X	X												
LDS-11	↓	GW	↓	↓	1415	2	X	X												
LDS-12	↓	GW	↓	↓	1445	2	X	X												
LGW-2		GW				2	X	X												
LGW-3R		GW				2	X	X												
LGW-4		GW				2	X	X												
LGW-5		GW				2	X	X												
LGW-6		GW				2	X	X												
LGW-7		GW				2	X	X												

SDG #: **L1686474**
 Table #: _____
 Acctnum: **WMECOVISAR**
 Template: **T161046**
 Prelogin: **P1038071**
 PM: **616 - Stacy Kennedy**
 PB: _____
 Shipped Via: **FedEX Ground**
 Remarks: _____ Sample # (lab only): _____

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

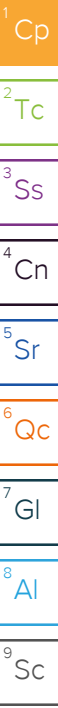
Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP / Y N
COC Signed/Accurate:	Y N
Bottles arrive intact:	Y N
Correct bottles used:	Y N
Sufficient volume sent:	Y N
If Applicable	
VOA Zero Headpace:	Y N
Preservation Correct/Checked:	Y N
RAD Screen <0.5 mR/hr:	Y N

Samples returned via: UPS FedEx Courier
 Tracking #: **6643 4318 2733**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 12.8.23	Time: 1530	Received by: (Signature)	Trip Blank Received: Yes/No HCL/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: CORC Bottles Received: 3570=3548 If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Alexa Mitchell</i>	Date: 12/9/23 Time: 0900 Hold: _____ Condition: NCF / OK



Eco-Vista (Tontitown)LF

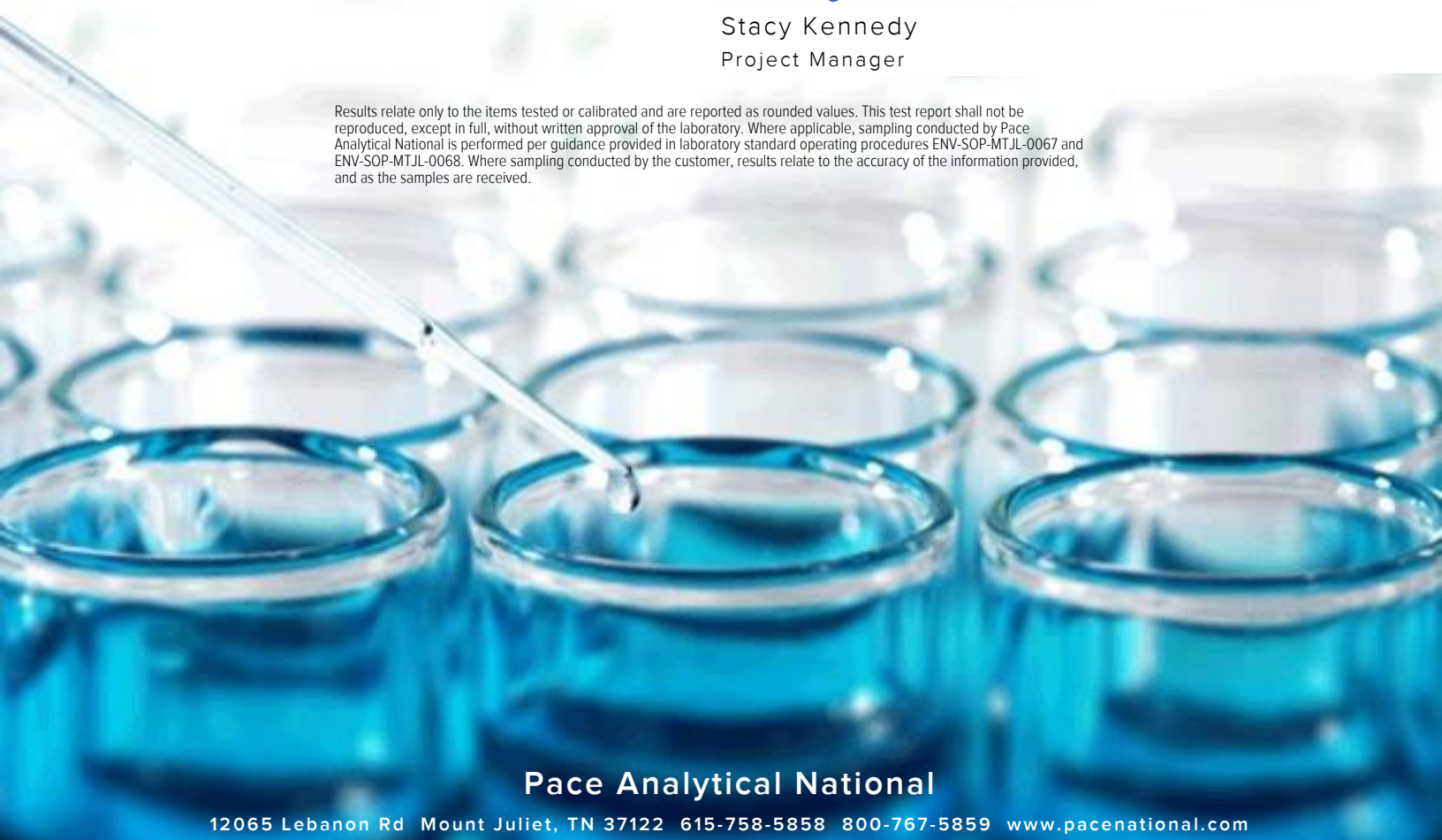
Sample Delivery Group: L1686168
Samples Received: 12/08/2023
Project Number: 300
Description: Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, Dec
Site: AR03
Report To: Jodi Reynolds
88 Joyce Lane
Russellville, AR 72801

Entire Report Reviewed By:



Stacy Kennedy
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

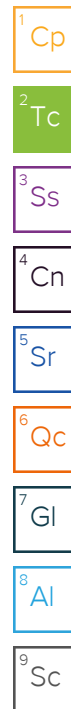


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

LGW-2 L1686168-01 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 12:15

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:29	12/10/23 16:29	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 00:23	12/20/23 00:23	ASM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LGW-3R L1686168-02 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 11:40

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:34	12/10/23 16:34	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 00:33	12/20/23 00:33	ASM	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

LGW-4 L1686168-03 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 11:05

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:37	12/10/23 16:37	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 00:42	12/20/23 00:42	ASM	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

LGW-5 L1686168-04 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 10:30

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:38	12/10/23 16:38	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 00:52	12/20/23 00:52	ASM	Mt. Juliet, TN

LGW-6 L1686168-05 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 09:00

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:40	12/10/23 16:40	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 01:01	12/20/23 01:01	ASM	Mt. Juliet, TN

LGW-7 L1686168-06 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 14:10

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:46	12/10/23 16:46	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192130	1	12/20/23 01:11	12/20/23 01:11	ASM	Mt. Juliet, TN

LGW-8R L1686168-07 GW

Collected by
Chris Fincher

Collected date/time
12/07/23 13:25

Received date/time
12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:47	12/10/23 16:47	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 11:19	12/20/23 11:19	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

LGW-9 L1686168-08 GW

Collected by Chris Fincher Collected date/time 12/06/23 14:00 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:49	12/10/23 16:49	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 11:57	12/20/23 11:57	GEB	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

LGW-10 L1686168-09 GW

Collected by Chris Fincher Collected date/time 12/06/23 14:40 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:50	12/10/23 16:50	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 12:07	12/20/23 12:07	GEB	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

LGW-14R L1686168-10 GW

Collected by Chris Fincher Collected date/time 12/07/23 09:40 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:52	12/10/23 16:52	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 12:16	12/20/23 12:16	GEB	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

MW-7N L1686168-11 GW

Collected by Chris Fincher Collected date/time 12/06/23 13:30 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:53	12/10/23 16:53	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 12:45	12/20/23 12:45	GEB	Mt. Juliet, TN

MW-15 L1686168-12 GW

Collected by Chris Fincher Collected date/time 12/06/23 16:00 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:55	12/10/23 16:55	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 12:54	12/20/23 12:54	GEB	Mt. Juliet, TN

MW-16 L1686168-13 GW

Collected by Chris Fincher Collected date/time 12/06/23 15:20 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:56	12/10/23 16:56	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 13:04	12/20/23 13:04	GEB	Mt. Juliet, TN

MW-17 L1686168-14 GW

Collected by Chris Fincher Collected date/time 12/07/23 15:45 Received date/time 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:58	12/10/23 16:58	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 13:13	12/20/23 13:13	GEB	Mt. Juliet, TN

SAMPLE SUMMARY

MW-19 L1686168-15 GW

Collected by: Chris Fincher
 Collected date/time: 12/06/23 16:35
 Received date/time: 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 16:59	12/10/23 16:59	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 13:23	12/20/23 13:23	GEB	Mt. Juliet, TN

¹Cp

²Tc

³Ss

FB L1686168-16 GW

Collected by: Chris Fincher
 Collected date/time: 12/06/23 13:15
 Received date/time: 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 17:05	12/10/23 17:05	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 13:32	12/20/23 13:32	GEB	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

LGW-6-DUP L1686168-17 GW

Collected by: Chris Fincher
 Collected date/time: 12/07/23 07:00
 Received date/time: 12/08/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 350.1	WG2186488	1	12/10/23 17:08	12/10/23 17:08	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2192142	1	12/20/23 13:42	12/20/23 13:42	GEB	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

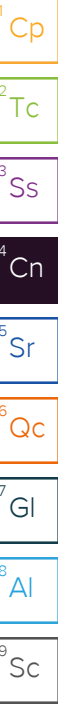
Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Stacy Kennedy
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.



Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.69	su
Specific Conductance (on site)	839	umhos/cm
Temperature (on-site)	15.3	Deg. C
Turbidity (on-site)	3.3	NTU
Dissolved Oxygen (on-site)	6	mg/l
eH/ORP (On Site)	111.4	mV
Depth to water (DTW) (FROM TOC)	73.29	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:29	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	11.1		3.00	1	12/20/2023 00:23	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	5.19	su
Specific Conductance (on site)	140	umhos/cm
Temperature (on-site)	14.8	Deg. C
Turbidity (on-site)	5.1	NTU
Dissolved Oxygen (on-site)	5.1	mg/l
eH/ORP (On Site)	153.9	mV
Depth to water (DTW) (FROM TOC)	57.37	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:34	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.57		3.00	1	12/20/2023 00:33	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.54	su
Specific Conductance (on site)	1039	umhos/cm
Temperature (on-site)	15.5	Deg. C
Turbidity (on-site)	5.6	NTU
Dissolved Oxygen (on-site)	1.3	mg/l
eH/ORP (On Site)	29.3	mV
Depth to water (DTW) (FROM TOC)	61.34	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:37	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	20.7		3.00	1	12/20/2023 00:42	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.37	su
Specific Conductance (on site)	1085	umhos/cm
Temperature (on-site)	15.1	Deg. C
Turbidity (on-site)	3.2	NTU
Dissolved Oxygen (on-site)	2.3	mg/l
eH/ORP (On Site)	-73.2	mV
Depth to water (DTW) (FROM TOC)	72.2	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.106		0.100	1	12/10/2023 16:38	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	25.8		3.00	1	12/20/2023 00:52	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.23	su
Specific Conductance (on site)	1020	umhos/cm
Temperature (on-site)	15.8	Deg. C
Turbidity (on-site)	3.4	NTU
Dissolved Oxygen (on-site)	1.3	mg/l
eH/ORP (On Site)	10.1	mV
Depth to water (DTW) (FROM TOC)	51.38	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:40	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	17.4		3.00	1	12/20/2023 01:01	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.76	su
Specific Conductance (on site)	810	umhos/cm
Temperature (on-site)	16.5	Deg. C
Turbidity (on-site)	3.2	NTU
Dissolved Oxygen (on-site)	3.1	mg/l
eH/ORP (On Site)	93.2	mV
Depth to water (DTW) (FROM TOC)	43.8	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:46	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	14.9		3.00	1	12/20/2023 01:11	WG2192130

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.5	su
Specific Conductance (on site)	1000	umhos/cm
Temperature (on-site)	16.1	Deg. C
Turbidity (on-site)	3.1	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	104.5	mV
Depth to water (DTW) (FROM TOC)	11.2	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:47	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	19.7		3.00	1	12/20/2023 11:19	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.26	su
Specific Conductance (on site)	986	umhos/cm
Temperature (on-site)	15.5	Deg. C
Turbidity (on-site)	2.5	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	133.6	mV
Depth to water (DTW) (FROM TOC)	54.4	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:49	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	33.6		3.00	1	12/20/2023 11:57	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.23	su
Specific Conductance (on site)	1141	umhos/cm
Temperature (on-site)	15.9	Deg. C
Turbidity (on-site)	3.4	NTU
Dissolved Oxygen (on-site)	0.5	mg/l
eH/ORP (On Site)	-46.2	mV
Depth to water (DTW) (FROM TOC)	59.6	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.125		0.100	1	12/10/2023 16:50	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	24.4		3.00	1	12/20/2023 12:07	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.76	su
Specific Conductance (on site)	840	umhos/cm
Temperature (on-site)	14.7	Deg. C
Turbidity (on-site)	3.3	NTU
Dissolved Oxygen (on-site)	4.8	mg/l
eH/ORP (On Site)	59.9	mV
Depth to water (DTW) (FROM TOC)	56.8	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:52	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	5.56		3.00	1	12/20/2023 12:16	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.61	su
Specific Conductance (on site)	774	umhos/cm
Temperature (on-site)	14.7	Deg. C
Turbidity (on-site)	3	NTU
Dissolved Oxygen (on-site)	4.3	mg/l
eH/ORP (On Site)	155.6	mV
Depth to water (DTW) (FROM TOC)	87.78	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:53	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	30.2		3.00	1	12/20/2023 12:45	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.4	su
Specific Conductance (on site)	768	umhos/cm
Temperature (on-site)	15.2	Deg. C
Turbidity (on-site)	2.8	NTU
Dissolved Oxygen (on-site)	5.4	mg/l
eH/ORP (On Site)	77	mV
Depth to water (DTW) (FROM TOC)	58.85	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:55	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	39.8		3.00	1	12/20/2023 12:54	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.09	su
Specific Conductance (on site)	481	umhos/cm
Temperature (on-site)	15	Deg. C
Turbidity (on-site)	2.8	NTU
Dissolved Oxygen (on-site)	6.7	mg/l
eH/ORP (On Site)	-2.7	mV
Depth to water (DTW) (FROM TOC)	76.72	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:56	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	4.01		3.00	1	12/20/2023 13:04	WG2192142

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.69	su
Specific Conductance (on site)	494	umhos/cm
Temperature (on-site)	17.2	Deg. C
Turbidity (on-site)	13.1	NTU
Dissolved Oxygen (on-site)	6.9	mg/l
eH/ORP (On Site)	96.1	mV
Depth to water (DTW) (FROM TOC)	60.5	ft

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:58	WG2186488

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	6.62		3.00	1	12/20/2023 13:13	WG2192142

8 Al

9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.65	su
Specific Conductance (on site)	738	umhos/cm
Temperature (on-site)	16.4	Deg. C
Turbidity (on-site)	2.8	NTU
Dissolved Oxygen (on-site)	5.6	mg/l
eH/ORP (On Site)	85.3	mV
Depth to water (DTW) (FROM TOC)	67.85	ft

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 16:59	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	7.55		3.00	1	12/20/2023 13:23	WG2192142

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 17:05	WG2186488

¹ Cp

² Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	ND		3.00	1	12/20/2023 13:32	WG2192142

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		0.100	1	12/10/2023 17:08	WG2186488

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis date / time	Batch
Chloride	17.4		3.00	1	12/20/2023 13:42	WG2192142

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4010426-1 12/10/23 16:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	ND		0.0317	0.100

L1686168-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1686168-02 12/10/23 16:34 • (DUP) R4010426-5 12/10/23 16:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

L1686168-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1686168-17 12/10/23 17:08 • (DUP) R4010426-7 12/10/23 17:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4010426-2 12/10/23 16:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	7.50	7.53	100	90.0-110	

L1686168-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686168-01 12/10/23 16:29 • (MS) R4010426-3 12/10/23 16:31 • (MSD) R4010426-4 12/10/23 16:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	5.00	ND	5.19	5.27	104	105	1	90.0-110			1.51	10

L1686168-16 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686168-16 12/10/23 17:05 • (MS) R4010426-6 12/10/23 17:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.20	104	1	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4014731-1 12/19/23 09:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1685803-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1685803-09 12/19/23 21:13 • (DUP) R4014731-3 12/19/23 21:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	12.2	12.2	1	0.0839		15

L1686168-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1686168-06 12/20/23 01:11 • (DUP) R4014731-6 12/20/23 01:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	14.9	14.9	1	0.114		15

Laboratory Control Sample (LCS)

(LCS) R4014731-2 12/19/23 09:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.6	102	80.0-120	

L1685803-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1685803-09 12/19/23 21:13 • (MS) R4014731-4 12/19/23 21:32 • (MSD) R4014731-5 12/19/23 21:41

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	12.2	50.0	49.9	94.6	94.4	1	80.0-120			0.238	15

L1686168-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686168-06 12/20/23 01:11 • (MS) R4014731-7 12/20/23 01:30

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	14.9	51.7	91.9	1	80.0-120	

Method Blank (MB)

(MB) R4015296-1 12/20/23 09:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	ND		0.0519	1.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1686168-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1686168-07 12/20/23 11:19 • (DUP) R4015296-3 12/20/23 11:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	19.7	19.7	1	0.0853		15

L1686417-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1686417-13 12/20/23 15:36 • (DUP) R4015296-6 12/20/23 15:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	ND	ND	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R4015296-2 12/20/23 09:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.5	101	80.0-120	

L1686168-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1686168-07 12/20/23 11:19 • (MS) R4015296-4 12/20/23 11:38 • (MSD) R4015296-5 12/20/23 11:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40.0	19.7	55.1	55.1	88.6	88.5	1	80.0-120			0.126	15

L1686417-13 Original Sample (OS) • Matrix Spike (MS)

(OS) L1686417-13 12/20/23 15:36 • (MS) R4015296-7 12/20/23 15:55

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	40.0	ND	39.1	97.8	1	80.0-120	

GLOSSARY OF TERMS

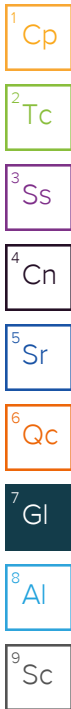
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:
jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Jodi Reynolds

Email To:
ciara.childrens.beavers@jettenviro.com;jeffholm

Project Description:
Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMECOVISAR-00005

Collected by (print):
Chris Fowler

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
Date Results Needed

Immediately
Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mIHDPENoPres	NH3 250mIHDPENH2SO4
LDS-9		GW				2	X	X
LDS-10		GW				2	X	X
LDS-11		GW				2	X	X
LDS-12		GW				2	X	X
LGW-2	Grab	GW	73.90	12.7.23	1215	2	X	X
LGW-3R		GW	57.65		1140	2	X	X
LGW-4		GW	61.45		1105	2	X	X
LGW-5		GW	72.2		1030	2	X	X
LGW-6		GW	57.40		0900	2	X	X
LGW-7		GW	44.50		1410	2	X	X

SDG # **L1686168**
D240

Acctnum: **WMECOVISAR**
Template: **T161046**
Prelogin: **P1038071**
PM: **616 - Stacy Kennedy**
PB: **05111123**

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	<input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Samples returned via:
 UPS FedEx Courier

Tracking #

Relinquished by: (Signature)
[Signature]

Date: **12-7-23**
Time: **1700**

Received by: (Signature)

Trip Blank Received: Yes/No
CCAR HCL / MeOH TBR

Relinquished by: (Signature)

Date: _____
Time: _____

Received by: (Signature)

Temp: **14.8 to 14.8** °C
Bottles Received: **34**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
Time: _____

Received for lab by: (Signature)
[Signature]

Date: **12-8-23**
Time: **0900**

Hold: _____
Condition: **NCF / OK**

Company Name/Address:
Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Report to:
Jodi Reynolds

Email To:
ciara.childrens.beavers@jettenviro.com; jeffholm

Project Description:
Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMCOVISAR-00005

Collected by (print):
Chris Funder

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

Same Day ___ Five Day ___
Next Day ___ 5 Day (Rad Only) ___
Two Day ___ 10 Day (Rad Only) ___
Three Day ___

Date Results Needed

Immediately

Packed on Ice N ___ Y X

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	CHLORIDE 125mIHDPE-NoPres	NH3 250mIHDPE-H2SO4	Analysis / Container / Preservative	Chain of Custody
LGW-8R	Grab	GW	11.50	12.7.23	1325	2	X	X		
LGW-9		GW	55.50	12.6.23	1400	2	X	X		
LGW-10		GW	60.75	12.6.23	1440	2	X	X		
LGW-14R		GW	58.90	12.7.23	0940	2	X	X		
MW-7N		GW	88.10	12.6.23	1330	2	X	X		
MW-15		GW	58.85		1600	2	X	X		
MW-16		GW	76.72	✓	1520	2	X	X		
MW-17		GW	60.60	12.7.23	1545	2	X	X		
MW-19		GW	68.50	12.6.23	1635	2	X	X		
FB		GW	N/A	12.6.23	1315	2	X	X		



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **U686168**

Table #

Acctnum: **WMCOVISAR**

Template: **T161046**

Prelogin: **P1038071**

PM: **616 - Stacy Kennedy**

PB: *[Signature]*

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

-07
-08
-09
-10
-11
-12
-13
-14
-15
-16

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH ___ Temp ___

Flow ___ Other ___

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N
RAD Screen <0.5 mR/hr: ___ Y ___ N

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 1.4° C
Bottles Received: 34

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 12-8-23
Time: 0900

Hold:

Condition:
NCF / OK

Eco-Vista (Tontitown)LF

88 Joyce Lane
Russellville, AR 72801

Billing Information:

jreyno10@wm.com
P.O. Box 4745
WM A/P DEPARTMENT
Portland, OR 97208-4745

Pres
Chk

Analysis / Container / Preservative

Report to:
Jodi Reynolds

Email To:
ciara.childers.beavers@jettenviro.com;jeffholm

Project Description:
Eco-Vista-GW-Feb, Mar, May, Jun, Aug, Sep, Nov, De

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **501-993-8966**

Client Project #
300

Lab Project #
WMECOVISAR-00005

Collected by (print):
Chris Funder

Site/Facility ID #
AR03

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Immediately

Packed on Ice N Y X

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

LGW-6-DUP	Grab	GW	77.71	12-7-23	0700	2	X	X												
		GW				2	X	X												
		GW				2	X	X												
		GW				2	X	X												
		GW				2	X	X												

CHLORIDE 125mlHDPE-NoPres

NH3 250mlHDPE-H2SO4



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1686168**
Table #
Acctnum: **WMECOVISAR**
Template: **T161046**
Prelogin: **P1038071**
PM: **616 - Stacy Kennedy**
PB: *[Signature]*
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Pace project service: Check for multiple coolers upon receipt.

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)
[Signature]

Date: **12-7-23** Time: **1700**

Received by: (Signature)

Trip Blank Received: Yes/No
HCL/MeoH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **14°C** Bottles Received: **34**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
[Signature]

Date: **12-8-23** Time: **0900**

Hold: Condition: NCF / **(OK)**