

SAMPLE SUMMARY

SMW-2 L1655739-09 GW

Collected by
Ryan D. Smith

Collected date/time
09/13/23 11:45

Received date/time
09/14/23 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2133641	100	09/16/23 18:44	09/16/23 18:44	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134562	1	09/20/23 19:39	09/21/23 10:12	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134562	5	09/20/23 19:39	09/22/23 01:46	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134579	5	09/19/23 09:58	09/20/23 12:43	ZSA	Mt. Juliet, TN

DH-96 L1655739-10 GW

Collected by
Ryan D. Smith

Collected date/time
09/13/23 14:15

Received date/time
09/14/23 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2134579	1	09/19/23 18:34	09/19/23 18:34	ZSA	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2134259	1	09/18/23 10:31	09/18/23 17:16	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134419	1	09/18/23 16:27	09/18/23 16:27	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2133641	1	09/16/23 18:57	09/16/23 18:57	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2133641	10	09/16/23 19:09	09/16/23 19:09	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134562	1	09/20/23 19:39	09/21/23 10:15	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134579	1	09/19/23 09:58	09/19/23 18:34	ZSA	Mt. Juliet, TN

DH-122 L1655739-11 GW

Collected by
Ryan D. Smith

Collected date/time
09/13/23 15:45

Received date/time
09/14/23 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2134579	1	09/19/23 18:37	09/19/23 18:37	ZSA	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG2134259	1	09/18/23 10:31	09/18/23 17:16	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2134419	1	09/18/23 15:53	09/18/23 15:53	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2133641	1	09/16/23 19:22	09/16/23 19:22	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2133641	10	09/16/23 19:35	09/16/23 19:35	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134562	1	09/20/23 19:39	09/21/23 10:24	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2134579	1	09/19/23 09:58	09/19/23 18:37	ZSA	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

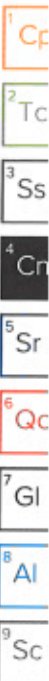
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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. 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.



Chris Ward
Project Manager



PC-1

Collected date/time: 09/13/23 08:45

SAMPLE RESULTS - 01

L1655739

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.28		1	09/19/2023 23:22	WG2132924

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hardness (calculated) as CaCO3	1600		2.50	1	09/19/2023 23:22	WG2132924

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3220		50.0	1	09/17/2023 21:52	WG2133245

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Bicarbonate	285		20.0	1	09/19/2023 12:08	WG2134417
Alkalinity,Carbonate	ND		20.0	1	09/19/2023 12:08	WG2134417

Sample Narrative:

L1655739-01 WG2134417: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	18.1		10.0	10	09/16/2023 18:05	WG2133591
Fluoride	1.89		1.50	10	09/16/2023 18:05	WG2133591
Sulfate	2080		500	100	09/16/2023 18:18	WG2133591

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	ND		0.0100	1	09/20/2023 12:39	WG2132888
Arsenic,Dissolved	ND		0.0100	1	09/20/2023 12:39	WG2132888
Barium,Dissolved	0.0127		0.00500	1	09/20/2023 12:39	WG2132888
Boron,Dissolved	0.513		0.200	1	09/20/2023 12:39	WG2132888
Cadmium,Dissolved	ND		0.00200	1	09/20/2023 12:39	WG2132888
Calcium	490		1.00	1	09/19/2023 23:22	WG2132924
Calcium,Dissolved	478		1.00	1	09/20/2023 12:39	WG2132888
Iron,Dissolved	ND		0.100	1	09/20/2023 12:39	WG2132888
Lead,Dissolved	ND		0.00600	1	09/20/2023 12:39	WG2132888
Magnesium	91.5		1.00	1	09/19/2023 23:22	WG2132924
Magnesium,Dissolved	91.0		1.00	1	09/20/2023 12:39	WG2132888
Manganese,Dissolved	ND		0.0100	1	09/20/2023 12:39	WG2132888
Molybdenum,Dissolved	ND		0.00500	1	09/20/2023 12:39	WG2132888
Potassium,Dissolved	11.1		2.00	1	09/20/2023 12:39	WG2132888
Selenium,Dissolved	0.0770		0.0100	1	09/20/2023 12:39	WG2132888
Sodium	394		3.00	1	09/19/2023 23:22	WG2132924
Sodium,Dissolved	396		3.00	1	09/20/2023 12:39	WG2132888

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PC-6

Collected date/time: 09/12/23 12:30

SAMPLE RESULTS - 02

L1655739

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.00		1	09/19/2023 23:25	WG2132924

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hardness (calculated) as CaCO3	773		2.50	1	09/19/2023 23:25	WG2132924

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2240		50.0	1	09/17/2023 21:52	WG2133245

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity,Bicarbonate	307		20.0	1	09/19/2023 10:25	WG2134417
Alkalinity,Carbonate	ND		20.0	1	09/19/2023 10:25	WG2134417

Sample Narrative:

L1655739-02 WG2134417: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	58.7		10.0	10	09/16/2023 18:32	WG2133591
Fluoride	3.59		1.50	10	09/16/2023 18:32	WG2133591
Sulfate	1370		50.0	10	09/16/2023 18:32	WG2133591

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	ND		0.0100	1	09/20/2023 12:42	WG2132888
Arsenic,Dissolved	ND		0.0100	1	09/20/2023 12:42	WG2132888
Barium,Dissolved	0.00968		0.00500	1	09/20/2023 12:42	WG2132888
Boron,Dissolved	0.557		0.200	1	09/20/2023 12:42	WG2132888
Cadmium,Dissolved	ND		0.00200	1	09/20/2023 12:42	WG2132888
Calcium	176		1.00	1	09/19/2023 23:25	WG2132924
Calcium,Dissolved	172		1.00	1	09/20/2023 12:42	WG2132888
Iron,Dissolved	ND		0.100	1	09/20/2023 12:42	WG2132888
Lead,Dissolved	ND		0.00600	1	09/20/2023 12:42	WG2132888
Magnesium	80.9		1.00	1	09/19/2023 23:25	WG2132924
Magnesium,Dissolved	81.1		1.00	1	09/20/2023 12:42	WG2132888
Manganese,Dissolved	0.0113	<u>B</u>	0.0100	1	09/20/2023 12:42	WG2132888
Molybdenum,Dissolved	0.00611	<u>B</u>	0.00500	1	09/20/2023 12:42	WG2132888
Potassium,Dissolved	7.29		2.00	1	09/20/2023 12:42	WG2132888
Selenium,Dissolved	0.0598		0.0100	1	09/20/2023 12:42	WG2132888
Sodium	447		3.00	1	09/19/2023 23:25	WG2132924
Sodium,Dissolved	462		3.00	1	09/20/2023 12:42	WG2132888

AMW-1

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

SAMPLE RESULTS - 03

L1655739

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.01		1	09/19/2023 23:28	WG2132924

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hardness (calculated) as CaCO3	942		2.50	1	09/19/2023 23:28	WG2132924

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1540		25.0	1	09/17/2023 21:52	WG2133245

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	199		20.0	1	09/18/2023 15:18	WG2134419
Alkalinity,Bicarbonate	199		20.0	1	09/18/2023 15:18	WG2134419
Alkalinity,Carbonate	ND		20.0	1	09/18/2023 15:18	WG2134419
Alkalinity,Hydroxide	ND		20.0	1	09/18/2023 15:18	WG2134419

Sample Narrative:

L1655739-03 WG2134419: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	32.2		1.00	1	09/16/2023 18:59	WG2133591
Fluoride	0.972		0.150	1	09/16/2023 18:59	WG2133591
Sulfate	874		50.0	10	09/16/2023 19:13	WG2133591

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony,Dissolved	ND		0.0100	1	09/20/2023 12:46	WG2132888
Arsenic,Dissolved	ND		0.0100	1	09/20/2023 12:46	WG2132888
Barium,Dissolved	0.0275		0.00500	1	09/20/2023 12:46	WG2132888
Boron,Dissolved	ND		0.200	1	09/20/2023 12:46	WG2132888
Cadmium,Dissolved	ND		0.00200	1	09/20/2023 12:46	WG2132888
Calcium	260		1.00	1	09/19/2023 23:28	WG2132924
Calcium,Dissolved	247		1.00	1	09/20/2023 12:46	WG2132888
Iron,Dissolved	ND		0.100	1	09/20/2023 12:46	WG2132888
Lead,Dissolved	ND		0.00600	1	09/20/2023 12:46	WG2132888
Magnesium	71.5		1.00	1	09/19/2023 23:28	WG2132924
Magnesium,Dissolved	70.1		1.00	1	09/20/2023 12:46	WG2132888
Manganese,Dissolved	ND		0.0100	1	09/20/2023 12:46	WG2132888
Molybdenum,Dissolved	ND		0.00500	1	09/20/2023 12:46	WG2132888
Potassium,Dissolved	3.25		2.00	1	09/20/2023 12:46	WG2132888
Selenium,Dissolved	0.0175		0.0100	1	09/20/2023 12:46	WG2132888
Sodium	142		3.00	1	09/19/2023 23:28	WG2132924
Sodium,Dissolved	139		3.00	1	09/20/2023 12:46	WG2132888

ACCOUNT:

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