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15 September 2022

Sabre Beebe
Simcoe LLC
1199 Main Ave Suite 101
Durango, CO 81301
RE: COGCC Table 915-1

Enclosed are the results of analyses for samples received by the laboratory on 09/07/22 12:30. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Simcoe LLC	Project: COGCC Table 915-1	
1199 Main Ave Suite 101	Project Name / Number: Seibel A2	Reported:
Durango CO, 81301	Project Manager: Sabre Beebe	09/15/22 09:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01 Point of Release	2209076-01	Solid	09/07/22 06:51	09/07/22 12:30	
SS02 Background	2209076-02	Solid	09/07/22 07:49	09/07/22 12:30	

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Jeremy D Allen, Laboratory Director

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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SS01 Point of Release

2209076-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	09/14/22 17:39	3060A/3500-Cr B	M5	HTB
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Saturated Paste Extraction

Calcium	47.9	0.100	0.058	mg/L	1	09/14/22 15:58	EPA200.7		AES
Conductivity	335			umho/cm@25 C	1	09/13/22 14:00	ASA#9 10-3.3		JDA
Magnesium	9.80	0.100	0.065	mg/L	1	09/14/22 15:59	EPA200.7		AES
pH	6.92			pH Units	1	09/13/22 14:00	ASA#9 10-3.2		JDA
SAR	0.34			No Unit	1	09/14/22 15:58	Calculation		AES
Sodium	10.0	1.00	0.079	mg/L	1	09/14/22 15:58	EPA200.7		AES

Total Metals by ICP

Barium	316	5.00	1.10	mg/kg dry	100	09/14/22 15:23	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	09/14/22 15:23	6010B		AES
Chromium	19.4	5.00	1.58	mg/kg dry	100	09/14/22 15:23	6010B		AES
Copper	13.4	5.00	2.83	mg/kg dry	100	09/14/22 15:23	6010B		AES
Lead	12.7	10.0	4.02	mg/kg dry	100	09/14/22 15:23	6010B		AES
Nickel	12.0	5.00	2.41	mg/kg dry	100	09/14/22 15:23	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	09/14/22 15:22	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	09/14/22 15:22	6010B		AES
Zinc	53.1	10.0	2.18	mg/kg dry	100	09/14/22 15:23	6010B		AES

Total Metals by ICPMS

Arsenic	3.42	0.0010	0.0002	mg/kg dry	1	09/14/22 13:33	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/14/22 15:40	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/09/22 23:37	8015B		CK
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/09/22 23:37	8015B		CK
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/09/22 23:37	8015B		CK

Surrogate: 1-Chlorooctane			92.3 %	45.3-161		09/09/22 23:37	8015B		CK
Surrogate: 1-Chlorooctadecane			99.1 %	46.3-178		09/09/22 23:37	8015B		CK

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SS01 Point of Release

2209076-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	09/13/22 23:32	8260B		CK
Toluene*	0.0319	0.0250	0.00670	mg/kg	50	09/13/22 23:32	8260B		CK
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/13/22 23:32	8260B		CK
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/13/22 23:32	8260B		CK
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/13/22 23:32	8260B		CK
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	09/13/22 23:32	8260B		CK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/13/22 23:32	8260B		CK
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/13/22 23:32	8260B		CK
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/13/22 23:32	8260B		CK
Surrogate: Dibromofluoromethane			95.5 %	84.6-114		09/13/22 23:32	8260B		CK
Surrogate: Toluene-d8			102 %	90.4-109		09/13/22 23:32	8260B		CK
Surrogate: 4-Bromofluorobenzene			96.2 %	82.5-117		09/13/22 23:32	8260B		CK

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/12/22 20:26	8270C		CK
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/12/22 20:26	8270C		CK
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/12/22 20:26	8270C		CK
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/12/22 20:26	8270C		CK
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/12/22 20:26	8270C		CK
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/12/22 20:26	8270C		CK
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/12/22 20:26	8270C		CK
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/12/22 20:26	8270C		CK
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/12/22 20:26	8270C		CK
Chrysene	<0.017	0.040	0.017	mg/kg	40	09/12/22 20:26	8270C		CK
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/12/22 20:26	8270C		CK
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/12/22 20:26	8270C		CK
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/12/22 20:26	8270C		CK
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/12/22 20:26	8270C		CK
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/12/22 20:26	8270C		CK
Surrogate: Nitrobenzene-d5			54.7 %	39.6-121		09/12/22 20:26	8270C		CK

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Jeremy D Allen, Laboratory Director

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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SS01 Point of Release

2209076-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	64.4 %	39.8-134				09/12/22 20:26	8270C		CK
Surrogate: Terphenyl-d14	66.7 %	33.3-136				09/12/22 20:26	8270C		CK

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SS02 Background

2209076-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Hexavalent Chromium	<0.250	0.250	0.128	mg/kg dry	25	09/14/22 17:39	3060A/3500-Cr B		HTB
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Saturated Paste Extraction

Calcium	70.6	0.100	0.058	mg/L	1	09/14/22 16:01	EPA200.7		AES
Conductivity	507			umho/cm@25 C	1	09/13/22 14:00	ASA#9 10-3.3		JDA
Magnesium	13.7	0.100	0.065	mg/L	1	09/14/22 16:01	EPA200.7		AES
pH	6.40			pH Units	1	09/13/22 14:00	ASA#9 10-3.2		JDA
SAR	0.28			No Unit	1	09/14/22 16:01	Calculation		AES
Sodium	9.82	1.00	0.079	mg/L	1	09/14/22 16:01	EPA200.7		AES

Total Metals by ICP

Barium	232	5.00	1.10	mg/kg dry	100	09/14/22 15:27	6010B		AES
Cadmium	<5.00	5.00	2.54	mg/kg dry	100	09/14/22 15:27	6010B		AES
Chromium	22.8	5.00	1.58	mg/kg dry	100	09/14/22 15:27	6010B		AES
Copper	14.6	5.00	2.83	mg/kg dry	100	09/14/22 15:27	6010B		AES
Lead	10.6	10.0	4.02	mg/kg dry	100	09/14/22 15:27	6010B		AES
Nickel	11.6	5.00	2.41	mg/kg dry	100	09/14/22 15:27	6010B		AES
Selenium	<20.0	20.0	5.39	mg/kg dry	100	09/14/22 15:27	6010B		AES
Silver	<1.00	1.00	0.518	mg/kg dry	100	09/14/22 15:27	6010B		AES
Zinc	50.5	10.0	2.18	mg/kg dry	100	09/14/22 15:27	6010B		AES

Total Metals by ICPMS

Arsenic	2.01	0.0010	0.0002	mg/kg dry	1	09/14/22 13:37	6020A		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.568	mg/L	4	09/14/22 15:49	EPA200.7		AES
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	6.25	mg/kg	1	09/09/22 23:59	8015B		CK
DRO >C10-C28*	<10.0	10.0	4.26	mg/kg	1	09/09/22 23:59	8015B		CK
EXT DRO >C28-C36	<10.0	10.0	4.26	mg/kg	1	09/09/22 23:59	8015B		CK

Surrogate: 1-Chlorooctane			67.8 %	45.3-161		09/09/22 23:59	8015B		CK
Surrogate: 1-Chlorooctadecane			67.6 %	46.3-178		09/09/22 23:59	8015B		CK

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SS02 Background

2209076-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0250	0.0250	0.00885	mg/kg	50	09/13/22 23:55	8260B		CK
Toluene*	<0.0250	0.0250	0.00670	mg/kg	50	09/13/22 23:55	8260B		CK
Ethylbenzene*	<0.0250	0.0250	0.00405	mg/kg	50	09/13/22 23:55	8260B		CK
m+p - Xylene*	<0.0500	0.0500	0.0186	mg/kg	50	09/13/22 23:55	8260B		CK
o-Xylene*	<0.0250	0.0250	0.00700	mg/kg	50	09/13/22 23:55	8260B		CK
Total Xylenes*	<0.0750	0.0750	0.0256	mg/kg	50	09/13/22 23:55	8260B		CK
1,3,5-Trimethylbenzene	<0.0250	0.0250	0.00450	mg/kg	50	09/13/22 23:55	8260B		CK
1,2,4-Trimethylbenzene	<0.0250	0.0250	0.00650	mg/kg	50	09/13/22 23:55	8260B		CK
Naphthalene*	<0.0250	0.0250	0.00500	mg/kg	50	09/13/22 23:55	8260B		CK
Surrogate: Dibromofluoromethane			94.9 %	84.6-114		09/13/22 23:55	8260B		CK
Surrogate: Toluene-d8			102 %	90.4-109		09/13/22 23:55	8260B		CK
Surrogate: 4-Bromofluorobenzene			95.6 %	82.5-117		09/13/22 23:55	8260B		CK

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.015	0.040	0.015	mg/kg	40	09/14/22 12:02	8270C		CK
2-Methylnaphthalene*	<0.023	0.040	0.023	mg/kg	40	09/14/22 12:02	8270C		CK
1-Methylnaphthalene	<0.016	0.040	0.016	mg/kg	40	09/14/22 12:02	8270C		CK
Acenaphthene*	<0.024	0.040	0.024	mg/kg	40	09/14/22 12:02	8270C		CK
Fluorene*	<0.014	0.040	0.014	mg/kg	40	09/14/22 12:02	8270C		CK
Anthracene*	<0.017	0.040	0.017	mg/kg	40	09/14/22 12:02	8270C		CK
Fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/22 12:02	8270C		CK
Pyrene*	<0.013	0.040	0.013	mg/kg	40	09/14/22 12:02	8270C		CK
Benzo[a]anthracene*	<0.023	0.040	0.023	mg/kg	40	09/14/22 12:02	8270C		CK
Chrysene	<0.017	0.040	0.017	mg/kg	40	09/14/22 12:02	8270C		CK
Benzo[b]fluoranthene*	<0.019	0.040	0.019	mg/kg	40	09/14/22 12:02	8270C		CK
Benzo[k]fluoranthene*	<0.016	0.040	0.016	mg/kg	40	09/14/22 12:02	8270C		CK
Benzo[a]pyrene*	<0.018	0.040	0.018	mg/kg	40	09/14/22 12:02	8270C		CK
Indeno[1,2,3-cd]pyrene*	<0.017	0.040	0.017	mg/kg	40	09/14/22 12:02	8270C		CK
Dibenz[a,h]anthracene*	<0.019	0.040	0.019	mg/kg	40	09/14/22 12:02	8270C		CK
Surrogate: Nitrobenzene-d5			57.5 %	39.6-121		09/14/22 12:02	8270C		CK

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SS02 Background

2209076-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

Polynuclear Aromatic Compounds by GC/MS

Surrogate: 2-Fluorobiphenyl	62.0 %	39.8-134				09/14/22 12:02	8270C		CK
Surrogate: Terphenyl-d14	61.0 %	33.3-136				09/14/22 12:02	8270C		CK

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222506 - General Prep - Wet Chem										
Blank (B222506-BLK1) Prepared: 09/13/22 Analyzed: 09/14/22										
Hexavalent Chromium	ND	0.250	mg/kg dry							
LCS (B222506-BS1) Prepared: 09/13/22 Analyzed: 09/14/22										
Hexavalent Chromium	2.32	0.250	mg/kg dry	2.50		92.7	85-115			

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222493 - Paste Extract										
Blank (B222493-BLK1) Prepared: 09/12/22 Analyzed: 09/14/22										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							
Reference (B222493-SRM1) Prepared: 09/12/22 Analyzed: 09/14/22										
SAR	11.1		No Unit	10.5		106	90-110			
Batch B222494 - Paste Extract										
Reference (B222494-SRM1) Prepared: 09/12/22 Analyzed: 09/13/22										
pH	6.78		pH Units	6.93		97.8	92-108			
Batch B222495 - Paste Extract										
Reference (B222495-SRM1) Prepared: 09/12/22 Analyzed: 09/13/22										
Conductivity	8260		umho/cm@25C	8340		99.1	90-110			

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Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222508 - EPA 3050

Blank (B222508-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

Barium	ND	5.00	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Copper	ND	5.00	mg/kg dry							
Lead	ND	10.0	mg/kg dry							
Nickel	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Silver	ND	1.00	mg/kg dry							
Zinc	ND	10.0	mg/kg dry							

LCS (B222508-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Barium	95.2	5.00	mg/kg dry	100		95.2	80-120			
Cadmium	88.3	5.00	mg/kg dry	100		88.3	80-120			
Chromium	96.0	5.00	mg/kg dry	100		96.0	80-120			
Copper	198	5.00	mg/kg dry	200		98.9	80-120			
Lead	88.1	10.0	mg/kg dry	100		88.1	80-120			
Nickel	89.7	5.00	mg/kg dry	100		89.7	80-120			
Selenium	388	20.0	mg/kg dry	400		97.0	80-120			
Silver	4.60	1.00	mg/kg dry	5.00		92.1	80-120			
Zinc	82.7	10.0	mg/kg dry	100		82.7	80-120			

LCS Dup (B222508-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Barium	93.9	5.00	mg/kg dry	100		93.9	80-120	1.31	20	
Cadmium	89.1	5.00	mg/kg dry	100		89.1	80-120	0.978	20	
Chromium	96.8	5.00	mg/kg dry	100		96.8	80-120	0.796	20	
Copper	195	5.00	mg/kg dry	200		97.3	80-120	1.62	20	
Lead	88.4	10.0	mg/kg dry	100		88.4	80-120	0.241	20	
Nickel	90.6	5.00	mg/kg dry	100		90.6	80-120	0.950	20	
Selenium	382	20.0	mg/kg dry	400		95.5	80-120	1.54	20	
Silver	4.68	1.00	mg/kg dry	5.00		93.5	80-120	1.57	20	
Zinc	83.5	10.0	mg/kg dry	100		83.5	80-120	1.03	20	

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222509 - EPA 3050M

Blank (B222509-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

Arsenic	ND	0.0010	mg/kg dry							
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LCS (B222509-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Arsenic	4.83	0.0010	mg/kg dry	5.00		96.6	80-120			
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LCS Dup (B222509-BSD1)

Prepared: 09/13/22 Analyzed: 09/14/22

Arsenic	4.54	0.0010	mg/kg dry	5.00		90.7	80-120	6.29	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222520 - Hot Water Soluble Metals Extract

Blank (B222520-BLK1)

Prepared & Analyzed: 09/14/22

Boron	ND	1.20	mg/L							
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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090924 - General Prep - Organics

Blank (2090924-BLK1)

Prepared & Analyzed: 09/09/22

Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	46.3-178			
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		91.9	45.3-161			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (2090924-BS1)

Prepared & Analyzed: 09/09/22

Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	46.3-178			
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	45.3-161			
DRO >C10-C28	212	10.0	mg/kg	200		106	74.9-127			
GRO C6-C10	211	10.0	mg/kg	200		105	76.8-124			
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.5-124			

LCS Dup (2090924-BSD1)

Prepared & Analyzed: 09/09/22

Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	46.3-178			
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	45.3-161			
DRO >C10-C28	215	10.0	mg/kg	200		108	74.9-127	1.28	18.6	
GRO C6-C10	215	10.0	mg/kg	200		108	76.8-124	2.08	17.2	
Total TPH C6-C28	430	10.0	mg/kg	400		108	77.5-124	1.68	17.6	

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090929 - Volatiles

Blank (2090929-BLK1)

Prepared: 09/09/22 Analyzed: 09/13/22

1,2,4-Trimethylbenzene	ND	0.0250	mg/kg							
1,3,5-Trimethylbenzene	ND	0.0250	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene</i>	1.22		mg/kg	1.25		97.6	82.5-117			
Benzene	ND	0.0250	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	1.18		mg/kg	1.25		94.6	84.6-114			
Ethylbenzene	ND	0.0250	mg/kg							
m+p - Xylene	ND	0.0500	mg/kg							
Naphthalene	ND	0.0250	mg/kg							
o-Xylene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	mg/kg							
<i>Surrogate: Toluene-d8</i>	1.27		mg/kg	1.25		102	90.4-109			
Total Xylenes	ND	0.0750	mg/kg							

LCS (2090929-BS1)

Prepared: 09/09/22 Analyzed: 09/13/22

1,2,4-Trimethylbenzene	0.516	0.0250	mg/kg	0.500		103	62.4-140			
1,3,5-Trimethylbenzene	0.514	0.0250	mg/kg	0.500		103	64.4-138			
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		101	82.5-117			
Benzene	0.494	0.0250	mg/kg	0.500		98.7	73-130			
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.5	84.6-114			
Ethylbenzene	0.507	0.0250	mg/kg	0.500		101	75.4-127			
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133			
Naphthalene	0.456	0.0250	mg/kg	0.500		91.1	28.7-158			
o-Xylene	0.503	0.0250	mg/kg	0.500		101	78.6-125			
Toluene	0.498	0.0250	mg/kg	0.500		99.6	79-122			
<i>Surrogate: Toluene-d8</i>	1.29		mg/kg	1.25		104	90.4-109			
Total Xylenes	1.54	0.0750	mg/kg	1.50		103	74.6-130			

LCS Dup (2090929-BSD1)

Prepared: 09/09/22 Analyzed: 09/13/22

1,2,4-Trimethylbenzene	0.520	0.0250	mg/kg	0.500		104	62.4-140	0.865	38.2	
1,3,5-Trimethylbenzene	0.514	0.0250	mg/kg	0.500		103	64.4-138	0.0623	39.1	
<i>Surrogate: 4-Bromofluorobenzene</i>	1.27		mg/kg	1.25		101	82.5-117			
Benzene	0.492	0.0250	mg/kg	0.500		98.3	73-130	0.402	17.1	
<i>Surrogate: Dibromofluoromethane</i>	1.23		mg/kg	1.25		98.6	84.6-114			
Ethylbenzene	0.510	0.0250	mg/kg	0.500		102	75.4-127	0.665	16.5	
m+p - Xylene	1.04	0.0500	mg/kg	1.00		104	71.8-133	0.747	19.1	
Naphthalene	0.468	0.0250	mg/kg	0.500		93.7	28.7-158	2.77	64	
o-Xylene	0.506	0.0250	mg/kg	0.500		101	78.6-125	0.755	13.2	
Toluene	0.501	0.0250	mg/kg	0.500		100	79-122	0.505	18.3	

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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**VOLATILES BY GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090929 - Volatiles (Continued)

LCS Dup (2090929-BSD1) (Continued)

Prepared: 09/09/22 Analyzed: 09/13/22

Surrogate: Toluene-d8	1.28		mg/kg	1.25		103	90.4-109			
Total Xylenes	1.55	0.0750	mg/kg	1.50		103	74.6-130	0.750	16.5	

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090205 - SW846-3510

Blank (2090205-BLK1)

Prepared: 09/02/22 Analyzed: 09/12/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.79		mg/kg	2.00		89.6	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.59		mg/kg	2.00		79.7	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.76		mg/kg	2.00		88.0	33.3-136			

LCS (2090205-BS1)

Prepared: 09/02/22 Analyzed: 09/12/22

1-Methylnaphthalene	0.344	0.040	mg/kg	0.400		85.9	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.47		mg/kg	2.00		124	39.8-134			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		82.0	59-106			
Acenaphthene	0.347	0.040	mg/kg	0.400		86.8	60.9-105			
Acenaphthylene	0.332	0.040	mg/kg	0.400		83.0	57.4-107			
Anthracene	0.332	0.040	mg/kg	0.400		83.0	60.8-105			
Benzo[a]anthracene	0.366	0.040	mg/kg	0.400		91.5	56.1-121			
Benzo[a]pyrene	0.358	0.040	mg/kg	0.400		89.5	56.7-115			
Benzo[b]flouranthene	0.337	0.040	mg/kg	0.400		84.2	45.4-128			
Benzo[g,h,i]perylene	0.360	0.040	mg/kg	0.400		89.9	56.5-107			
Benzo[k]flouranthene	0.354	0.040	mg/kg	0.400		88.5	49.6-119			
Carbazole	0.330	0.040	mg/kg	0.400		82.4	59.7-107			
Chrysene	0.357	0.040	mg/kg	0.400		89.3	12.2-190			
Dibenz[a,h]anthracene	0.327	0.040	mg/kg	0.400		81.8	59.1-111			
Fluoranthene	0.337	0.040	mg/kg	0.400		84.3	60.6-111			
Fluorene	0.336	0.040	mg/kg	0.400		84.0	59.3-108			
Indeno[1,2,3-cd]pyrene	0.337	0.040	mg/kg	0.400		84.1	53.4-116			
Naphthalene	0.339	0.040	mg/kg	0.400		84.7	56.5-106			

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090205 - SW846-3510 (Continued)

LCS (2090205-BS1) (Continued)

Prepared: 09/02/22 Analyzed: 09/12/22

<i>Surrogate: Nitrobenzene-d5</i>	2.17		mg/kg	2.00		108	39.6-121			
Phenanthrene	0.340	0.040	mg/kg	0.400		85.0	59.9-107			
Pyrene	0.369	0.040	mg/kg	0.400		92.3	51.5-122			
<i>Surrogate: Terphenyl-dl4</i>	2.32		mg/kg	2.00		116	33.3-136			

LCS Dup (2090205-BSD1)

Prepared: 09/02/22 Analyzed: 09/12/22

1-Methylnaphthalene	0.319	0.040	mg/kg	0.400		79.8	57.6-108	7.36	6.22	QR-04
<i>Surrogate: 2-Fluorobiphenyl</i>	2.40		mg/kg	2.00		120	39.8-134			
2-Methylnaphthalene	0.333	0.040	mg/kg	0.400		83.2	59-106	1.41	6.23	
Acenaphthene	0.346	0.040	mg/kg	0.400		86.5	60.9-105	0.329	8.18	
Acenaphthylene	0.329	0.040	mg/kg	0.400		82.3	57.4-107	0.819	5	
Anthracene	0.343	0.040	mg/kg	0.400		85.7	60.8-105	3.18	3.68	
Benzo[a]anthracene	0.363	0.040	mg/kg	0.400		90.9	56.1-121	0.746	9.01	
Benzo[a]pyrene	0.422	0.040	mg/kg	0.400		106	56.7-115	16.5	4.92	QR-04
Benzo[b]flouranthene	0.339	0.040	mg/kg	0.400		84.9	45.4-128	0.819	7.63	
Benzo[g,h,i]perylene	0.359	0.040	mg/kg	0.400		89.7	56.5-107	0.159	12.5	
Benzo[k]flouranthene	0.344	0.040	mg/kg	0.400		86.0	49.6-119	2.87	10.6	
Carbazole	0.348	0.040	mg/kg	0.400		87.0	59.7-107	5.42	8.65	
Chrysene	0.352	0.040	mg/kg	0.400		88.1	12.2-190	1.38	21.8	
Dibenz[a,h]anthracene	0.337	0.040	mg/kg	0.400		84.1	59.1-111	2.81	11.6	
Fluoranthene	0.342	0.040	mg/kg	0.400		85.5	60.6-111	1.36	7.54	
Fluorene	0.337	0.040	mg/kg	0.400		84.3	59.3-108	0.336	5.49	
Indeno[1,2,3-cd]pyrene	0.339	0.040	mg/kg	0.400		84.7	53.4-116	0.705	22.3	
Naphthalene	0.327	0.040	mg/kg	0.400		81.8	56.5-106	3.46	4.56	
<i>Surrogate: Nitrobenzene-d5</i>	2.14		mg/kg	2.00		107	39.6-121			
Phenanthrene	0.339	0.040	mg/kg	0.400		84.6	59.9-107	0.419	5.21	
Pyrene	0.370	0.040	mg/kg	0.400		92.5	51.5-122	0.211	10.6	
<i>Surrogate: Terphenyl-dl4</i>	2.26		mg/kg	2.00		113	33.3-136			

Batch 2090918 - SW846-3510

Blank (2090918-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.48		mg/kg	2.00		74.0	39.8-134			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							

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Simcoe LLC	Project: COGCC Table 915-1	Reported:
1199 Main Ave Suite 101	Project Name / Number: Seibel A2	09/15/22 09:03
Durango CO, 81301	Project Manager: Sabre Beebe	

**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090918 - SW846-3510 (Continued)

Blank (2090918-BLK1) (Continued)

Prepared: 09/13/22 Analyzed: 09/14/22

Benzo[b]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
<i>Surrogate: Nitrobenzene-d5</i>	1.40		mg/kg	2.00		69.9	39.6-121			
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-dl4</i>	1.58		mg/kg	2.00		79.0	33.3-136			

LCS (2090918-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

1-Methylnaphthalene	0.301	0.040	mg/kg	0.400		75.2	57.6-108			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.35		mg/kg	2.00		67.4	39.8-134			
2-Methylnaphthalene	0.285	0.040	mg/kg	0.400		71.2	59-106			
Acenaphthene	0.293	0.040	mg/kg	0.400		73.3	60.9-105			
Acenaphthylene	0.282	0.040	mg/kg	0.400		70.6	57.4-107			
Anthracene	0.295	0.040	mg/kg	0.400		73.8	60.8-105			
Benzo[a]anthracene	0.325	0.040	mg/kg	0.400		81.3	56.1-121			
Benzo[a]pyrene	0.322	0.040	mg/kg	0.400		80.4	56.7-115			
Benzo[b]flouranthene	0.301	0.040	mg/kg	0.400		75.2	45.4-128			
Benzo[g,h,i]perylene	0.323	0.040	mg/kg	0.400		80.9	56.5-107			
Benzo[k]flouranthene	0.309	0.040	mg/kg	0.400		77.3	49.6-119			
Carbazole	0.298	0.040	mg/kg	0.400		74.5	59.7-107			
Chrysene	0.311	0.040	mg/kg	0.400		77.7	12.2-190			
Dibenz[a,h]anthracene	0.311	0.040	mg/kg	0.400		77.7	59.1-111			
Fluoranthene	0.295	0.040	mg/kg	0.400		73.7	60.6-111			
Fluorene	0.285	0.040	mg/kg	0.400		71.3	59.3-108			
Indeno[1,2,3-cd]pyrene	0.313	0.040	mg/kg	0.400		78.2	53.4-116			
Naphthalene	0.285	0.040	mg/kg	0.400		71.3	56.5-106			
<i>Surrogate: Nitrobenzene-d5</i>	1.17		mg/kg	2.00		58.5	39.6-121			
Phenanthrene	0.294	0.040	mg/kg	0.400		73.6	59.9-107			
Pyrene	0.337	0.040	mg/kg	0.400		84.3	51.5-122			
<i>Surrogate: Terphenyl-dl4</i>	1.40		mg/kg	2.00		70.0	33.3-136			

LCS Dup (2090918-BSD1)

Prepared: 09/13/22 Analyzed: 09/14/22

1-Methylnaphthalene	0.294	0.040	mg/kg	0.400		73.5	57.6-108	2.30	6.22	
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Jeremy D Allen, Laboratory Director

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Simcoe LLC 1199 Main Ave Suite 101 Durango CO, 81301	Project: COGCC Table 915-1 Project Name / Number: Seibel A2 Project Manager: Sabre Beebe	Reported: 09/15/22 09:03
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**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2090918 - SW846-3510 (Continued)

LCS Dup (2090918-BSD1) (Continued)

Prepared: 09/13/22 Analyzed: 09/14/22

<i>Surrogate: 2-Fluorobiphenyl</i>	1.29		mg/kg	2.00		64.4	39.8-134			
2-Methylnaphthalene	0.287	0.040	mg/kg	0.400		71.7	59-106	0.767	6.23	
Acenaphthene	0.298	0.040	mg/kg	0.400		74.4	60.9-105	1.52	8.18	
Acenaphthylene	0.288	0.040	mg/kg	0.400		72.0	57.4-107	1.99	5	
Anthracene	0.285	0.040	mg/kg	0.400		71.3	60.8-105	3.44	3.68	
Benzo[a]anthracene	0.325	0.040	mg/kg	0.400		81.2	56.1-121	0.120	9.01	
Benzo[a]pyrene	0.323	0.040	mg/kg	0.400		80.8	56.7-115	0.552	4.92	
Benzo[b]flouranthene	0.316	0.040	mg/kg	0.400		78.9	45.4-128	4.78	7.63	
Benzo[g,h,i]perylene	0.314	0.040	mg/kg	0.400		78.5	56.5-107	2.92	12.5	
Benzo[k]flouranthene	0.298	0.040	mg/kg	0.400		74.5	49.6-119	3.74	10.6	
Carbazole	0.302	0.040	mg/kg	0.400		75.6	59.7-107	1.48	8.65	
Chrysene	0.319	0.040	mg/kg	0.400		79.7	12.2-190	2.53	21.8	
Dibenz[a,h]anthracene	0.312	0.040	mg/kg	0.400		78.0	59.1-111	0.427	11.6	
Fluoranthene	0.292	0.040	mg/kg	0.400		73.1	60.6-111	0.821	7.54	
Fluorene	0.296	0.040	mg/kg	0.400		74.1	59.3-108	3.83	5.49	
Indeno[1,2,3-cd]pyrene	0.313	0.040	mg/kg	0.400		78.2	53.4-116	0.0256	22.3	
Naphthalene	0.301	0.040	mg/kg	0.400		75.3	56.5-106	5.52	4.56	QR-04
<i>Surrogate: Nitrobenzene-d5</i>	1.22		mg/kg	2.00		61.1	39.6-121			
Phenanthrene	0.287	0.040	mg/kg	0.400		71.7	59.9-107	2.70	5.21	
Pyrene	0.335	0.040	mg/kg	0.400		83.7	51.5-122	0.747	10.6	
<i>Surrogate: Terphenyl-dl4</i>	1.40		mg/kg	2.00		69.8	33.3-136			

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Simcoe LLC	Project: COGCC Table 915-1	
1199 Main Ave Suite 101	Project Name / Number: Seibel A2	Reported:
Durango CO, 81301	Project Manager: Sabre Beebe	09/15/22 09:03

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Jeremy D Allen, Laboratory Director

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