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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, reading 'Jeremy D. Allen', is written in a cursive style.

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



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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

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	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Simcoe LLC
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Durango CO, 81301

Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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
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Surrogate: 1-Chlorooctadecane			99.1 %	46.3-178		09/09/22 23:37	8015B		CK
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Green Analytical Laboratories

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

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

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-dl4	66.7 %	33.3-136				09/12/22 20:26	8270C		CK

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Simcoe LLC
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Durango CO, 81301

Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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

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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Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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-dl4	61.0 %	33.3-136				09/14/22 12:02	8270C		CK

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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							
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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			
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Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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			
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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			
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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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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

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-BSD1)

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

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
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Durango CO, 81301

Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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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Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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							
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.6	82.5-117			
Benzene	ND	0.0250	mg/kg							
Surrogate: Dibromofluoromethane	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							
Surrogate: Toluene-d8	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			
Surrogate: 4-Bromofluorobenzene	1.27		mg/kg	1.25		101	82.5-117			
Benzene	0.494	0.0250	mg/kg	0.500		98.7	73-130			
Surrogate: Dibromofluoromethane	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			
Surrogate: Toluene-d8	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	
Surrogate: 4-Bromofluorobenzene	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	
Surrogate: Dibromofluoromethane	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

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

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							
Surrogate: 2-Fluorobiphenyl	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]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	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							
Surrogate: Nitrobenzene-d5	1.59		mg/kg	2.00		79.7	39.6-121			
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	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			
Surrogate: 2-Fluorobiphenyl	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]fluoranthene	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]fluoranthene	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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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

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

Surrogate: Nitrobenzene-d5	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			
Surrogate: Terphenyl-d14	2.32		mg/kg	2.00		116	33.3-136			

LCS Dup (2090205-BS1)

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
Surrogate: 2-Fluorobiphenyl	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]fluoranthene	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]fluoranthene	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	
Surrogate: Nitrobenzene-d5	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	
Surrogate: Terphenyl-d14	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							
Surrogate: 2-Fluorobiphenyl	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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Durango CO, 81301

Project: COGCC Table 915-1
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/15/22 09:03

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]fluoranthene	ND	0.040	mg/kg
Benzo[k]fluoranthene	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

Surrogate: Nitrobenzene-d5	1.40		mg/kg	2.00	69.9	39.6-121
Pyrene	ND	0.040	mg/kg			
Surrogate: Terphenyl-dl4	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
Surrogate: 2-Fluorobiphenyl	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]fluoranthene	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]fluoranthene	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

Surrogate: Nitrobenzene-d5	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
Surrogate: Terphenyl-dl4	1.40		mg/kg	2.00	70.0	33.3-136

LCS Dup (2090918-BS1)

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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Green Analytical Laboratories

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

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

Surrogate: 2-Fluorobiphenyl	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]fluoranthene	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]fluoranthene	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
Surrogate: Nitrobenzene-d5	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	
Surrogate: Terphenyl-d14	1.40		mg/kg	2.00		69.8	33.3-136			

Green Analytical Laboratories

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

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

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
FORM-006
COC - Revision 6.0

Company or Client: SIMCOE, LLC		Bill to (if different):		ANALYSIS REQUEST	
Address: 1199 Main Ave, Suite 101		P.O. #: IKAV 00			
City: Durango	State: CO	Zip: 81301	Company:		
Phone #: (970) 769-9523			Attn:		
Contact Person: Sabre Beebe			Address:		
Email Report to: sabre.beebe@ikavenergy.com			City:		
Project Name(optional): Sybel AA			State:		
			Zip:		
Sampler Name (Print): Sabre Beebe			Phone #:		
			Email:		

Sample Name or Location	Date	Time	Matrix (check one)							# of containers	COGCC 915	COGCC 910	SAR	EC	pH	BTEX	TPH			
			GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER :											
2209-076	9/7/02	10:51																		
3501 Point of Release	9/7/02	6:49																		
3502 Back Ground	9/7/02	6:43																		
3501 Point of Release	9/7/02	6:43																		
3502 Point of Release	9/7/02	6:43																		
3503 Tank	9/7/02	7:50																		
3504 Tank	9/7/02	7:43																		

Relinquished By:	Date: 9/7/02	Received By:	Date: 9/7/02	Report to State? (Circle)
Relinquished By:	Date: 9/7/02	Received By:	Date: 9/7/02	
Relinquished By:	Date: 9/7/02	Received By:	Date: 9/7/02	
Relinquished By:	Date: 9/7/02	Received By:	Date: 9/7/02	

Temperature at receipt: 18.9°C	CHECKED BY: LLG	On Ice: X	No Ice:
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