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27 September 2022

Sabre Beebe
Simcoe LLC
1199 Main Ave Suite 101
Durango, CO 81301
RE: Simcoe

Enclosed are the results of analyses for samples received by the laboratory on 09/07/22 12:30. This data replaces the previous report (See case narrative). 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: Simcoe
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/27/22 10:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WS01 Surface Water	2209075-01	Water	09/07/22 06:43	09/07/22 12:30	
WS02 Tank	2209075-02	Water	09/07/22 06:40	09/07/22 12:30	

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Jeremy D Allen, Laboratory Director

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This report has been reissued to change the sample matrix of WS-01 to surface water and also change the name of sample number 02 to Tank. This replaces the previously issued report dated 0913 22 1005.

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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Project: Simcoe
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/27/22 10:52

WS01 Surface Water

2209075-01 (Produced Water)

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

Chloride*	5.55	5.00	0.278	mg/L	5	09/09/22 16:05	EPA300.0		AES
Fluoride*	0.690	0.500	0.0486	mg/L	5	09/09/22 16:05	EPA300.0		AES
Sulfate*	<5.00	5.00	0.620	mg/L	5	09/09/22 16:05	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Boron	<1.50	1.50	0.465	mg/L	5	09/12/22 12:54	EPA200.7		AES
Calcium*	96.3	0.500	0.192	mg/L	5	09/12/22 12:54	EPA200.7		AES
Magnesium*	24.8	0.500	0.148	mg/L	5	09/12/22 12:54	EPA200.7		AES
Potassium*	11.4	5.00	0.888	mg/L	5	09/12/22 12:54	EPA200.7		AES
Sodium*	7.68	5.00	0.380	mg/L	5	09/12/22 12:54	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Arsenic*	0.0112	0.0050	0.0019	mg/L	5	09/12/22 11:56	EPA200.8		AES
Barium*	0.797	0.0025	0.0015	mg/L	5	09/12/22 11:56	EPA200.8		AES
Cadmium*	<0.0025	0.0025	0.0002	mg/L	5	09/12/22 11:56	EPA200.8		AES
Chromium*	0.0159	0.0100	0.0029	mg/L	5	09/12/22 11:56	EPA200.8		AES
Copper*	0.0226	0.0025	0.0008	mg/L	5	09/12/22 11:56	EPA200.8		AES
Lead*	0.0191	0.0025	0.0006	mg/L	5	09/12/22 11:56	EPA200.8		AES
Nickel*	0.155	0.0025	0.0014	mg/L	5	09/12/22 11:56	EPA200.8		AES
Selenium*	<0.0050	0.0050	0.0035	mg/L	5	09/12/22 11:56	EPA200.8		AES
Silver*	<0.0025	0.0025	0.0004	mg/L	5	09/12/22 11:56	EPA200.8		AES

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	09/12/22 13:44	8260B		CK
Toluene*	0.0007	0.0005	0.00007	mg/L	1	09/12/22 13:44	8260B		CK
Ethylbenzene*	0.0006	0.0005	0.00009	mg/L	1	09/12/22 13:44	8260B		CK
m+p - Xylene*	0.002	0.001	0.0005	mg/L	1	09/12/22 13:44	8260B		CK
o-Xylene*	0.001	0.0005	0.00007	mg/L	1	09/12/22 13:44	8260B		CK
Total Xylenes*	0.003	0.002	0.0005	mg/L	1	09/12/22 13:44	8260B		CK
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	09/12/22 13:44	8260B		CK

Surrogate: Dibromofluoromethane	98.5 %	82.4-141	09/12/22 13:44	8260B	CK
Surrogate: Toluene-d8	100 %	87.1-110	09/12/22 13:44	8260B	CK
Surrogate: 4-Bromofluorobenzene	92.9 %	76.4-114	09/12/22 13:44	8260B	CK

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Jeremy D Allen, Laboratory Director

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Project: Simcoe
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/27/22 10:52

WS02 Tank

2209075-02 (Produced Water)

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

Chloride*	3310	20.0	1.11	mg/L	20	09/09/22 16:26	EPA300.0		AES
Fluoride*	<2.00	2.00	0.194	mg/L	20	09/09/22 16:26	EPA300.0		AES
Sulfate*	<20.0	20.0	2.48	mg/L	20	09/09/22 16:26	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Boron	<3.00	3.00	0.930	mg/L	10	09/12/22 12:57	EPA200.7		AES
Calcium*	36.2	1.00	0.384	mg/L	10	09/12/22 12:57	EPA200.7		AES
Magnesium*	14.7	1.00	0.297	mg/L	10	09/12/22 12:57	EPA200.7		AES
Potassium*	26.6	10.0	1.78	mg/L	10	09/12/22 12:56	EPA200.7		AES
Sodium*	3090	10.0	0.761	mg/L	10	09/12/22 12:56	EPA200.7		AES

Total Recoverable Metals by ICPMS (E200.8)

Arsenic*	<0.0100	0.0100	0.0037	mg/L	10	09/12/22 11:57	EPA200.8		AES
Barium*	20.0	0.0250	0.0155	mg/L	50	09/12/22 15:31	EPA200.8		AES
Cadmium*	<0.0050	0.0050	0.0005	mg/L	10	09/12/22 11:57	EPA200.8		AES
Chromium*	<0.0200	0.0200	0.0057	mg/L	10	09/12/22 11:57	EPA200.8		AES
Copper*	0.140	0.0050	0.0015	mg/L	10	09/12/22 11:57	EPA200.8		AES
Lead*	<0.0050	0.0050	0.0011	mg/L	10	09/12/22 11:57	EPA200.8		AES
Nickel*	0.0450	0.0050	0.0028	mg/L	10	09/12/22 11:57	EPA200.8		AES
Selenium*	0.0303	0.0100	0.0070	mg/L	10	09/12/22 11:57	EPA200.8		AES
Silver*	<0.0050	0.0050	0.0007	mg/L	10	09/12/22 11:57	EPA200.8		AES

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Benzene*	<0.0005	0.0005	0.00009	mg/L	1	09/12/22 14:06	8260B		CK
Toluene*	0.0006	0.0005	0.00007	mg/L	1	09/12/22 14:06	8260B		CK
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	09/12/22 14:06	8260B		CK
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	09/12/22 14:06	8260B		CK
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	09/12/22 14:06	8260B		CK
Total Xylenes*	<0.002	0.002	0.0005	mg/L	1	09/12/22 14:06	8260B		CK
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	09/12/22 14:06	8260B		CK

Surrogate: Dibromofluoromethane	99.9 %	82.4-141	09/12/22 14:06	8260B	CK
Surrogate: Toluene-d8	98.1 %	87.1-110	09/12/22 14:06	8260B	CK
Surrogate: 4-Bromofluorobenzene	92.0 %	76.4-114	09/12/22 14:06	8260B	CK

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Simcoe LLC
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Project: Simcoe
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/27/22 10:52

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B222475 - IC- Ion Chromatograph										
Blank (B222475-BLK1)										
Prepared & Analyzed: 09/09/22										
Chloride	ND	1.00	mg/L							
Fluoride	ND	0.100	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B222475-BS1)										
Prepared & Analyzed: 09/09/22										
Chloride	24.5	1.00	mg/L	25.0		98.0	90-110			
Fluoride	2.41	0.100	mg/L	2.50		96.3	90-110			
Sulfate	23.9	1.00	mg/L	25.0		95.7	90-110			
LCS Dup (B222475-BSD1)										
Prepared & Analyzed: 09/09/22										
Chloride	24.5	1.00	mg/L	25.0		97.8	90-110	0.159	20	
Fluoride	2.39	0.100	mg/L	2.50		95.6	90-110	0.667	20	
Sulfate	23.9	1.00	mg/L	25.0		95.6	90-110	0.134	20	

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Project Manager: Sabre Beebe

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09/27/22 10:52

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222465 - Total Recoverable by ICP

Blank (B222465-BLK1)

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

Boron	ND	0.300	mg/L
Calcium	ND	0.100	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L

LCS (B222465-BS1)

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

Boron	1.95	0.300	mg/L	2.00	97.6	85-115
Calcium	1.97	0.100	mg/L	2.00	98.6	85-115
Magnesium	10.0	0.100	mg/L	10.0	100	85-115
Potassium	3.99	1.00	mg/L	4.00	99.7	85-115
Sodium	1.59	1.00	mg/L	1.62	98.5	85-115

LCS Dup (B222465-BSD1)

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

Boron	1.97	0.300	mg/L	2.00	98.3	85-115	0.667	20
Calcium	1.99	0.100	mg/L	2.00	99.7	85-115	1.17	20
Magnesium	9.98	0.100	mg/L	10.0	99.8	85-115	0.125	20
Potassium	3.99	1.00	mg/L	4.00	99.8	85-115	0.107	20
Sodium	1.59	1.00	mg/L	1.62	98.3	85-115	0.115	20

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Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B222466 - Total Recoverable by ICPMS

Blank (B222466-BLK1)

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

Arsenic	ND	0.0010	mg/L
Barium	ND	0.0005	mg/L
Cadmium	ND	0.0005	mg/L
Chromium	ND	0.0020	mg/L
Copper	ND	0.0005	mg/L
Lead	ND	0.0005	mg/L
Nickel	ND	0.0005	mg/L
Selenium	ND	0.0010	mg/L
Silver	ND	0.0005	mg/L

LCS (B222466-BS1)

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

Arsenic	0.0512	0.0010	mg/L	0.0500	102	85-115
Barium	0.0515	0.0005	mg/L	0.0500	103	85-115
Cadmium	0.0515	0.0005	mg/L	0.0500	103	85-115
Chromium	0.0488	0.0020	mg/L	0.0500	97.7	85-115
Copper	0.0482	0.0005	mg/L	0.0500	96.5	85-115
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115
Nickel	0.0513	0.0005	mg/L	0.0500	103	85-115
Selenium	0.259	0.0010	mg/L	0.250	103	85-115
Silver	0.0498	0.0005	mg/L	0.0500	99.6	85-115

LCS Dup (B222466-BSD1)

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

Arsenic	0.0522	0.0010	mg/L	0.0500	104	85-115	1.97	20
Barium	0.0516	0.0005	mg/L	0.0500	103	85-115	0.385	20
Cadmium	0.0511	0.0005	mg/L	0.0500	102	85-115	0.845	20
Chromium	0.0485	0.0020	mg/L	0.0500	96.9	85-115	0.760	20
Copper	0.0481	0.0005	mg/L	0.0500	96.2	85-115	0.256	20
Lead	0.0500	0.0005	mg/L	0.0500	100	85-115	0.462	20
Nickel	0.0504	0.0005	mg/L	0.0500	101	85-115	1.74	20
Selenium	0.261	0.0010	mg/L	0.250	104	85-115	1.04	20
Silver	0.0493	0.0005	mg/L	0.0500	98.6	85-115	0.967	20

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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 2090930 - Volatiles

Blank (2090930-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.0005	mg/L							
1,3,5-Trimethylbenzene	ND	0.0005	mg/L							
Surrogate: 4-Bromofluorobenzene	0.0235		mg/L	0.0250		93.9	76.4-114			
Benzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.0250		mg/L	0.0250		100	82.4-141			
Ethylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Naphthalene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Surrogate: Toluene-d8	0.0248		mg/L	0.0250		99.2	87.1-110			
Total Xylenes	ND	0.002	mg/L							

LCS (2090930-BS1)

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

1,2,4-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		90.6	85.2-120			
1,3,5-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		91.4	84.3-120			
Surrogate: 4-Bromofluorobenzene	0.0243		mg/L	0.0250		97.1	76.4-114			
Benzene	0.019	0.0005	mg/L	0.0200		94.4	85.9-114			
Surrogate: Dibromofluoromethane	0.0253		mg/L	0.0250		101	82.4-141			
Ethylbenzene	0.019	0.0005	mg/L	0.0200		94.6	81.8-127			
m+p - Xylene	0.037	0.001	mg/L	0.0400		92.1	72.4-134			
Naphthalene	0.019	0.0005	mg/L	0.0200		94.2	59.3-140			
o-Xylene	0.018	0.0005	mg/L	0.0200		91.6	76.2-135			
Toluene	0.018	0.0005	mg/L	0.0200		90.3	78.8-121			
Surrogate: Toluene-d8	0.0246		mg/L	0.0250		98.5	87.1-110			
Total Xylenes	0.055	0.002	mg/L	0.0600		91.9	74.3-134			

LCS Dup (2090930-BS1)

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

1,2,4-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		89.3	85.2-120	1.39	8.94	
1,3,5-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		89.6	84.3-120	2.10	16.5	
Surrogate: 4-Bromofluorobenzene	0.0242		mg/L	0.0250		97.0	76.4-114			
Benzene	0.019	0.0005	mg/L	0.0200		93.6	85.9-114	0.798	4.16	
Surrogate: Dibromofluoromethane	0.0254		mg/L	0.0250		101	82.4-141			
Ethylbenzene	0.019	0.0005	mg/L	0.0200		93.2	81.8-127	1.60	4.83	
m+p - Xylene	0.036	0.001	mg/L	0.0400		90.9	72.4-134	1.26	5.77	
Naphthalene	0.018	0.0005	mg/L	0.0200		90.4	59.3-140	4.17	33.5	
o-Xylene	0.018	0.0005	mg/L	0.0200		89.0	76.2-135	2.99	6.29	
Toluene	0.018	0.0005	mg/L	0.0200		88.7	78.8-121	1.79	5.67	

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Jeremy D Allen, Laboratory Director

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jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Simcoe LLC
1199 Main Ave Suite 101
Durango CO, 81301

Project: Simcoe
Project Name / Number: Seibel A2
Project Manager: Sabre Beebe

Reported:
09/27/22 10:52

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 2090930 - Volatiles (Continued)

LCS Dup (2090930-BSD1) (Continued)

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

Surrogate: Toluene-d8	0.0247		mg/L	0.0250		98.7	87.1-110			
Total Xylenes	0.054	0.002	mg/L	0.0600		90.3	74.3-134	1.83	5.83	

Notes and Definitions

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

Bill to (if different):

ANALYSIS REQUEST

Company or Client: SIMCOE, LLC

Address: 1199 Main Ave, Suite 101

City: Durango

State: CO Zip: 81301

Phone #: (970) 769-9523

Contact Person: Sabre Beebe

Email Report to: sabre.beebe@ikavenenergy.com

Project Name(optional): Sabre Beebe

Sampler Name (Print): Sabre Beebe

P.O. #: IKAV 00

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Email:

Collected

Matrix (check one)

of containers

Sample Name or Location

2209-615

Date

Time

GROUNDWATER

SURFACEWATER

WASTEWATER

PRODUCEDWATER

SOIL

DRINKING WATER

OTHER :

No preservation (general)

HNO₃

HCl

H₂SO₄

Other:

Other:

COGCC 915

COGCC 910

SAR

EC

pH

BTEX

TPH

5501 Point of Release
5502 Back Ground
5501 Point of Release
5502 Point of Release
5503 Tank
5504 Tank

Tank

9/23/2015

Date: 9/7/2015

Time: 12:30

Date: 9/7/2015

Time: 12:30

Date: 9/7/2015

Time: 12:30

Date: 9/7/2015

Time: 12:30

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes No

TAT 3 Day

and Sample name

per Sabre Beebe

9/23/15

19.9°C

44.9

On Ice

CHECKED BY

No Ice