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11 December 2020

Steve Moskal
BP America
1199 Main Ave Suite 101
Durango, CO 81303
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 11/23/20 15:24. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

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

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

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.

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.



BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simm E #1 + #3
Project Manager: Steve Moskal

Reported:
12/11/20 15:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS05	2011214-01	Solid	11/23/20 14:00	11/23/20 15:24	
SS06	2011214-02	Solid	11/23/20 13:30	11/23/20 15:24	

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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SS05

2011214-01 (Soil)

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

% Dry Solids	78.6			%	1	11/24/20 08:45	EPA160.3/1684		VJW
Saturated Paste Extraction									
Calcium	95.3	0.200	0.033	mg/L	2	12/07/20 19:20	EPA200.7		AES
Conductivity	995			umho/cm @ 25.0°C	1	12/04/20 16:00	ASA#9 10-3.3		VJW
Magnesium	20.0	0.200	0.047	mg/L	2	12/07/20 19:20	EPA200.7		AES
pH	7.28			pH Units	1	12/04/20 14:20	ASA#9 10-3.2		VJW
SAR	1.30			No Unit	1	12/07/20 19:20	Calculation		AES
Sodium	53.6	2.00	0.201	mg/L	2	12/07/20 19:20	EPA200.7		AES

Total Metals by ICP

Barium	394	5.00	0.318	mg/kg dry	100	12/07/20 16:27	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	12/07/20 16:27	6010B		AES
Chromium	17.6	5.00	0.416	mg/kg dry	100	12/07/20 16:27	6010B		AES
Copper	14.4	5.00	1.40	mg/kg dry	100	12/07/20 16:27	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	12/07/20 16:27	6010B		AES
Nickel	14.7	5.00	0.507	mg/kg dry	100	12/07/20 16:27	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	12/07/20 16:27	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	12/07/20 16:27	6010B		AES
Zinc	47.8	10.0	2.60	mg/kg dry	100	12/07/20 16:27	6010B		AES

Total Metals by ICPMS

Arsenic	2.17	1.00	0.0807	mg/kg dry	1000	12/08/20 15:47	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0509	0.0509	0.0030	mg/kg dry	200	12/10/20 16:13	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	12/07/20 19:07	EPA200.7		AES
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SS05

2011214-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	12/01/20 01:18	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	12/01/20 01:18	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	12/01/20 01:18	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	12/01/20 01:18	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/01/20 01:18	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		12/01/20 01:18	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	12/01/20 04:48	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	12/01/20 04:48	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	12/01/20 04:48	8015B		MS
Surrogate: 1-Chlorooctane			113 %	44.3-144		12/01/20 04:48	8015B		MS
Surrogate: 1-Chlorooctadecane			115 %	42.2-156		12/01/20 04:48	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS
2-Methylnaphthalene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	12/10/20 15:48	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 15:48	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 15:48	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	12/10/20 15:48	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS
Fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 15:48	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	12/10/20 15:48	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 15:48	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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SS05

2011214-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 15:48	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 15:48	8270C		MS
Surrogate: Nitrobenzene-d5			94.6 %	11.5-118		12/10/20 15:48	8270C		MS
Surrogate: 2-Fluorobiphenyl			103 %	19.4-118		12/10/20 15:48	8270C		MS
Surrogate: Terphenyl-d14			91.9 %	20.1-127		12/10/20 15:48	8270C		MS

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SS06

2011214-02 (Soil)

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

% Dry Solids	84.1			%	1	11/24/20 08:45	EPA160.3/1684		VJW
Saturated Paste Extraction									
Calcium	42.7	0.100	0.017	mg/L	1	12/07/20 19:25	EPA200.7		AES
Conductivity	550			umho/cm @ 25.0°C	1	12/04/20 16:00	ASA#9 10-3.3		VJW
Magnesium	9.01	0.100	0.023	mg/L	1	12/07/20 19:25	EPA200.7		AES
pH	7.55			pH Units	1	12/04/20 14:20	ASA#9 10-3.2		VJW
SAR	2.18			No Unit	1	12/07/20 19:25	Calculation		AES
Sodium	60.1	1.00	0.101	mg/L	1	12/07/20 19:25	EPA200.7		AES

Total Metals by ICP

Barium	381	5.00	0.318	mg/kg dry	100	12/07/20 16:35	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	12/07/20 16:35	6010B		AES
Chromium	13.7	5.00	0.416	mg/kg dry	100	12/07/20 16:35	6010B		AES
Copper	11.0	5.00	1.40	mg/kg dry	100	12/07/20 16:35	6010B		AES
Lead	10.3	10.0	0.661	mg/kg dry	100	12/07/20 16:35	6010B		AES
Nickel	12.2	5.00	0.507	mg/kg dry	100	12/07/20 16:35	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	12/07/20 16:35	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	12/07/20 16:35	6010B		AES
Zinc	47.2	10.0	2.60	mg/kg dry	100	12/07/20 16:35	6010B		AES

Total Metals by ICPMS

Arsenic	1.64	1.00	0.0807	mg/kg dry	1000	12/08/20 15:58	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0475	0.0475	0.0028	mg/kg dry	200	12/10/20 16:13	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	12/07/20 19:12	EPA200.7		AES
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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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SS06

2011214-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	12/01/20 01:33	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	12/01/20 01:33	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	12/01/20 01:33	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	12/01/20 01:33	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/01/20 01:33	8021B		MS
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		12/01/20 01:33	8021B		MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	12/01/20 05:11	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	12/01/20 05:11	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	12/01/20 05:11	8015B		MS
Surrogate: 1-Chlorooctane			114 %	44.3-144		12/01/20 05:11	8015B		MS
Surrogate: 1-Chlorooctadecane			117 %	42.2-156		12/01/20 05:11	8015B		MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS
2-Methylnaphthalene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	12/10/20 16:15	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 16:15	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 16:15	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	12/10/20 16:15	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS
Fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 16:15	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	12/10/20 16:15	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	12/10/20 16:15	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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SS06

2011214-02 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	12/10/20 16:15	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	12/10/20 16:15	8270C		MS
Surrogate: Nitrobenzene-d5			116 %	11.5-118		12/10/20 16:15	8270C		MS
Surrogate: 2-Fluorobiphenyl			127 %	19.4-118		12/10/20 16:15	8270C	S-04	MS
Surrogate: Terphenyl-d14			109 %	20.1-127		12/10/20 16:15	8270C		MS

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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 B202538 - General Prep - Wet Chem

Duplicate (B202538-DUP2)		Source: 2011214-02		Prepared & Analyzed: 11/24/20						
% Dry Solids	84.5		%		84.1			0.400	20	

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 B202616 - Paste Extract

Blank (B202616-BLK1)		Prepared: 12/04/20 Analyzed: 12/08/20								
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Sodium	ND	1.00	mg/L							
Duplicate (B202616-DUP1)		Source: 2011214-01		Prepared: 12/04/20 Analyzed: 12/07/20						
Calcium	91.8	0.200	mg/L		95.3			3.71	20	
Magnesium	19.1	0.200	mg/L		20.0			4.56	20	
SAR	1.29		No Unit		1.30			0.772	20	
Sodium	52.0	2.00	mg/L		53.6			3.12	20	
Reference (B202616-SRM1)		Prepared: 12/04/20 Analyzed: 12/07/20								
SAR	7.85		No Unit	7.50		105	90-110			

Batch B202617 - Paste Extract

Duplicate (B202617-DUP1)		Source: 2011214-01		Prepared & Analyzed: 12/04/20						
pH	7.38		pH Units		7.28			1.36	20	
Reference (B202617-SRM1)		Prepared & Analyzed: 12/04/20								
pH	8.90		pH Units	9.14		97.4	95-105			

Batch B202619 - Paste Extract

Duplicate (B202619-DUP1)		Source: 2011214-01		Prepared & Analyzed: 12/04/20						
Conductivity	971		umho/cm @ 25.0°C		995			2.44	20	

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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 B202634 - EPA 3050

Blank (B202634-BLK1)

Prepared & Analyzed: 12/07/20

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 (B202634-BS1)

Prepared & Analyzed: 12/07/20

Barium	192	5.00	mg/kg dry	200		95.9	80-120			
Cadmium	180	5.00	mg/kg dry	200		90.2	80-120			
Chromium	191	5.00	mg/kg dry	200		95.7	80-120			
Copper	400	5.00	mg/kg dry	400		100	80-120			
Lead	179	10.0	mg/kg dry	200		89.3	80-120			
Nickel	181	5.00	mg/kg dry	200		90.5	80-120			
Selenium	784	20.0	mg/kg dry	800		98.1	80-120			
Silver	9.45	1.00	mg/kg dry	10.0		94.5	80-120			
Zinc	170	10.0	mg/kg dry	200		84.8	80-120			

LCS Dup (B202634-BSD1)

Prepared & Analyzed: 12/07/20

Barium	189	5.00	mg/kg dry	200		94.4	80-120	1.58	20	
Cadmium	176	5.00	mg/kg dry	200		88.0	80-120	2.41	20	
Chromium	189	5.00	mg/kg dry	200		94.3	80-120	1.51	20	
Copper	395	5.00	mg/kg dry	400		98.8	80-120	1.30	20	
Lead	180	10.0	mg/kg dry	200		90.1	80-120	0.841	20	
Nickel	182	5.00	mg/kg dry	200		90.9	80-120	0.446	20	
Selenium	781	20.0	mg/kg dry	800		97.7	80-120	0.380	20	
Silver	9.49	1.00	mg/kg dry	10.0		94.9	80-120	0.471	20	
Zinc	170	10.0	mg/kg dry	200		85.2	80-120	0.381	20	

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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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 B202636 - EPA 3050M

Blank (B202636-BLK1)

Prepared: 12/07/20 Analyzed: 12/08/20

Arsenic ND 0.100 mg/kg dry

LCS (B202636-BS1)

Prepared: 12/07/20 Analyzed: 12/08/20

Arsenic 4.74 0.100 mg/kg dry 5.00 94.8 80-120

LCS Dup (B202636-BSD1)

Prepared: 12/07/20 Analyzed: 12/08/20

Arsenic 4.86 0.100 mg/kg dry 5.00 97.2 80-120 2.49 20

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202571 - EPA 7471

Blank (B202571-BLK1)

Prepared: 12/09/20 Analyzed: 12/10/20

Mercury ND 0.0002 mg/kg wet

LCS (B202571-BS1)

Prepared: 12/09/20 Analyzed: 12/10/20

Mercury 0.0050 0.0002 mg/kg wet 0.00500 100 85-115

LCS Dup (B202571-BSD1)

Prepared: 12/09/20 Analyzed: 12/10/20

Mercury 0.0050 0.0002 mg/kg wet 0.00500 100 85-115 0.439 20

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 B202575 - Hot Water Soluble Metals Extract

Blank (B202575-BLK1)

Prepared: 12/01/20 Analyzed: 12/03/20

Boron ND 1.20 mg/L

Duplicate (B202575-DUP2)

Source: 2011214-01

Prepared: 12/01/20 Analyzed: 12/07/20

Boron 0.474 1.20 mg/L 0.438 7.80 200

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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0113006 - Volatiles

Blank (0113006-BLK1)

Prepared: 11/30/20 Analyzed: 12/01/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (0113006-BS1)

Prepared & Analyzed: 11/30/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.2	73.3-129			
Benzene	1.91	0.050	mg/kg	2.00		95.5	72.2-131			
Ethylbenzene	1.90	0.050	mg/kg	2.00		94.9	68.9-126			
Toluene	1.85	0.050	mg/kg	2.00		92.4	71.7-126			
Total Xylenes	5.40	0.150	mg/kg	6.00		89.9	71.4-125			

LCS Dup (0113006-BSD1)

Prepared & Analyzed: 11/30/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	73.3-129			
Benzene	2.07	0.050	mg/kg	2.00		103	72.2-131	8.05	14.6	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	8.26	18.9	
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126	8.39	17.4	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	71.4-125	7.73	18.5	

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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 0113003 - General Prep - Organics

Blank (0113003-BLK1)

Prepared: 11/30/20 Analyzed: 12/01/20

Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	42.2-156			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.3	44.3-144			
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 (0113003-BS1)

Prepared: 11/30/20 Analyzed: 12/01/20

Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	42.2-156			
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	44.3-144			
DRO >C10-C28	242	10.0	mg/kg	200		121	80-132			
GRO C6-C10	236	10.0	mg/kg	200		118	78.8-127			
Total TPH C6-C28	478	10.0	mg/kg	400		119	81.3-128			

LCS Dup (0113003-BSD1)

Prepared: 11/30/20 Analyzed: 12/01/20

Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	42.2-156			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	44.3-144			
DRO >C10-C28	225	10.0	mg/kg	200		113	80-132	7.34	17.1	
GRO C6-C10	221	10.0	mg/kg	200		111	78.8-127	6.45	15.1	
Total TPH C6-C28	446	10.0	mg/kg	400		112	81.3-128	6.90	15	

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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 0120706 - SW846-3510

Blank (0120706-BLK1)

Prepared: 12/07/20 Analyzed: 12/10/20

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.78		mg/kg	2.00		88.8	19.4-118			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	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[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Carbazole	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>	1.62		mg/kg	2.00		81.1	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-dl4</i>	2.18		mg/kg	2.00		109	20.1-127			

LCS (0120706-BS1)

Prepared: 12/07/20 Analyzed: 12/10/20

1-Methylnaphthalene	0.339	0.040	mg/kg	0.400		84.9	41.5-115			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.62		mg/kg	2.00		80.9	19.4-118			
2-Methylnaphthalene	0.335	0.040	mg/kg	0.400		83.8	41.3-115			
Acenaphthene	0.323	0.040	mg/kg	0.400		80.7	40.8-115			
Acenaphthylene	0.323	0.040	mg/kg	0.400		80.8	39.6-115			
Anthracene	0.317	0.040	mg/kg	0.400		79.2	41.6-116			
Benzo[a]anthracene	0.333	0.040	mg/kg	0.400		83.3	38.1-120			
Benzo[a]pyrene	0.310	0.040	mg/kg	0.400		77.6	43.2-122			
Benzo[b]flouranthene	0.311	0.040	mg/kg	0.400		77.8	36-129			
Benzo[g,h,i]perylene	0.307	0.040	mg/kg	0.400		76.7	29.6-131			
Benzo[k]flouranthene	0.305	0.040	mg/kg	0.400		76.3	40.9-123			
Carbazole	0.327	0.040	mg/kg	0.400		81.8	41.3-117			
Chrysene	0.335	0.040	mg/kg	0.400		83.7	39.4-118			
Dibenz[a,h]anthracene	0.318	0.040	mg/kg	0.400		79.5	37-123			
Fluoranthene	0.332	0.040	mg/kg	0.400		83.0	42.5-116			

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: Table 910 Project Name / Number: Simm E #1 + #3 Project Manager: Steve Moskal	Reported: 12/11/20 15:26
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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 0120706 - SW846-3510 (Continued)

LCS (0120706-BS1) (Continued)

Prepared: 12/07/20 Analyzed: 12/10/20

Fluorene	0.345	0.040	mg/kg	0.400		86.2	40.8-115			
Indeno[1,2,3-cd]pyrene	0.324	0.040	mg/kg	0.400		80.9	40.5-121			
Naphthalene	0.323	0.040	mg/kg	0.400		80.8	37.2-118			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.56</i>		mg/kg	<i>2.00</i>		<i>78.1</i>	<i>11.5-118</i>			
Phenanthrene	0.321	0.040	mg/kg	0.400		80.3	41.6-117			
Pyrene	0.336	0.040	mg/kg	0.400		84.0	38.2-121			
<i>Surrogate: Terphenyl-d14</i>	<i>1.74</i>		mg/kg	<i>2.00</i>		<i>87.2</i>	<i>20.1-127</i>			

LCS Dup (0120706-BS1)

Prepared: 12/07/20 Analyzed: 12/10/20

1-Methylnaphthalene	0.340	0.040	mg/kg	0.400		84.9	41.5-115	0.0471	5.67	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.65</i>		mg/kg	<i>2.00</i>		<i>82.3</i>	<i>19.4-118</i>			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		82.1	41.3-115	2.04	5.43	
Acenaphthene	0.337	0.040	mg/kg	0.400		84.2	40.8-115	4.15	5.45	
Acenaphthylene	0.328	0.040	mg/kg	0.400		81.9	39.6-115	1.33	4.49	
Anthracene	0.314	0.040	mg/kg	0.400		78.4	41.6-116	0.939	3.74	
Benzo[a]anthracene	0.306	0.040	mg/kg	0.400		76.4	38.1-120	8.65	3.05	QR-02
Benzo[a]pyrene	0.312	0.040	mg/kg	0.400		78.1	43.2-122	0.623	3.42	
Benzo[b]fluoranthene	0.314	0.040	mg/kg	0.400		78.4	36-129	0.884	32.9	
Benzo[g,h,i]perylene	0.302	0.040	mg/kg	0.400		75.5	29.6-131	1.53	6.1	
Benzo[k]fluoranthene	0.322	0.040	mg/kg	0.400		80.4	40.9-123	5.23	6.97	
Carbazole	0.323	0.040	mg/kg	0.400		80.9	41.3-117	1.09	5.33	
Chrysene	0.299	0.040	mg/kg	0.400		74.8	39.4-118	11.2	2.77	QR-02
Dibenz[a,h]anthracene	0.304	0.040	mg/kg	0.400		76.0	37-123	4.50	5.52	
Fluoranthene	0.323	0.040	mg/kg	0.400		80.8	42.5-116	2.77	6.41	
Fluorene	0.332	0.040	mg/kg	0.400		82.9	40.8-115	3.86	5.01	
Indeno[1,2,3-cd]pyrene	0.320	0.040	mg/kg	0.400		79.9	40.5-121	1.30	4.92	
Naphthalene	0.324	0.040	mg/kg	0.400		81.1	37.2-118	0.374	4.51	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.58</i>		mg/kg	<i>2.00</i>		<i>79.2</i>	<i>11.5-118</i>			
Phenanthrene	0.317	0.040	mg/kg	0.400		79.2	41.6-117	1.34	4.53	
Pyrene	0.309	0.040	mg/kg	0.400		77.3	38.2-121	8.34	8.61	
<i>Surrogate: Terphenyl-d14</i>	<i>1.67</i>		mg/kg	<i>2.00</i>		<i>83.5</i>	<i>20.1-127</i>			

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simm E #1 + #3
Project Manager: Steve Moskal

Reported:
12/11/20 15:26

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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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