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19 November 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 11/06/20 15:25. 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 blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen For 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: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2011065-01	Solid	11/06/20 11:45	11/06/20 15:25	
SS02	2011065-02	Solid	11/06/20 11:30	11/06/20 15:25	
SS03	2011065-03	Solid	11/06/20 11:15	11/06/20 15:25	
SS04	2011065-04	Solid	11/06/20 11:00	11/06/20 15:25	
WS01	2011065-05	Water	11/06/20 12:00	11/06/20 15:25	

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS01**2011065-01 (Soil)**

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

% Dry Solids	86.9			%	1	11/09/20 12:48	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	41.1	0.500	0.083	mg/L	5	11/11/20 15:28	EPA200.7		AES
Conductivity	2120			umho/cm @ 25.0°C	1	11/11/20 11:00	ASA#9 10-3.3		VJW
Magnesium	10.6	0.500	0.117	mg/L	5	11/11/20 15:28	EPA200.7		AES
pH	7.86			pH Units	1	11/11/20 08:15	ASA#9 10-3.2		VJW
SAR	12.0			No Unit	1	11/11/20 15:28	Calculation		AES
Sodium	333	5.00	0.503	mg/L	5	11/11/20 15:28	EPA200.7		AES

Total Metals by ICP

Barium	405	5.00	0.318	mg/kg dry	100	11/18/20 15:58	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	11/18/20 15:58	6010B		AES
Chromium	9.03	5.00	0.416	mg/kg dry	100	11/18/20 15:58	6010B		AES
Copper	15.5	5.00	1.40	mg/kg dry	100	11/18/20 15:58	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	11/18/20 15:58	6010B		AES
Nickel	9.89	5.00	0.507	mg/kg dry	100	11/18/20 15:58	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	11/18/20 15:58	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	11/18/20 15:58	6010B		AES
Zinc	42.6	10.0	2.60	mg/kg dry	100	11/18/20 15:58	6010B		AES

Total Metals by ICPMS

Arsenic	2.03	1.00	0.0807	mg/kg dry	1000	11/19/20 11:58	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0460	0.0460	0.0027	mg/kg dry	200	11/10/20 12:29	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	11/11/20 16:06	EPA200.7		AES
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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS01

2011065-01 (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	11/11/20 12:12	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	11/11/20 12:12	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	11/11/20 12:12	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	11/11/20 12:12	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/11/20 12:12	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129 11/11/20 12:12 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	11/10/20 20:49	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	11/10/20 20:49	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	11/10/20 20:49	8015B		MS

Surrogate: 1-Chlorooctane 85.4 % 44.3-144 11/10/20 20:49 8015B MS

Surrogate: 1-Chlorooctadecane 81.9 % 42.2-156 11/10/20 20:49 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS
2-Methylnaphthalene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	11/11/20 18:44	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 18:44	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 18:44	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	11/11/20 18:44	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS
Fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 18:44	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	11/11/20 18:44	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 18:44	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS

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Jeremy D Allen For Debbie Zufelt, Reports Manager

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1199 Main Ave Suite 101
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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS01

2011065-01 (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	11/11/20 18:44	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 18:44	8270C		MS
Surrogate: Nitrobenzene-d5			89.4 %	11.5-118		11/11/20 18:44	8270C		MS
Surrogate: 2-Fluorobiphenyl			89.9 %	19.4-118		11/11/20 18:44	8270C		MS
Surrogate: Terphenyl-d14			87.1 %	20.1-127		11/11/20 18:44	8270C		MS

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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS02**2011065-02 (Soil)**

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

% Dry Solids	90.8			%	1	11/09/20 12:48	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	230	0.500	0.083	mg/L	5	11/11/20 15:34	EPA200.7		AES
Conductivity	3650			umho/cm @ 25.0°C	1	11/11/20 11:00	ASA#9 10-3.3		VJW
Magnesium	45.2	0.500	0.117	mg/L	5	11/11/20 15:34	EPA200.7		AES
pH	7.81			pH Units	1	11/11/20 08:15	ASA#9 10-3.2		VJW
SAR	6.52			No Unit	1	11/11/20 15:34	Calculation		AES
Sodium	413	5.00	0.503	mg/L	5	11/11/20 15:34	EPA200.7		AES

Total Metals by ICP

Barium	588	5.00	0.318	mg/kg dry	100	11/18/20 16:02	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	11/18/20 16:02	6010B		AES
Chromium	9.07	5.00	0.416	mg/kg dry	100	11/18/20 16:02	6010B		AES
Copper	14.1	5.00	1.40	mg/kg dry	100	11/18/20 16:02	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	11/18/20 16:02	6010B		AES
Nickel	8.02	5.00	0.507	mg/kg dry	100	11/18/20 16:02	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	11/18/20 16:02	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	11/18/20 16:02	6010B		AES
Zinc	33.5	10.0	2.60	mg/kg dry	100	11/18/20 16:02	6010B		AES

Total Metals by ICPMS

Arsenic	2.59	1.00	0.0807	mg/kg dry	1000	11/19/20 12:01	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0440	0.0440	0.0026	mg/kg dry	200	11/10/20 12:29	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	11/11/20 16:08	EPA200.7		AES
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1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

SS02

2011065-02 (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	11/11/20 12:27	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	11/11/20 12:27	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	11/11/20 12:27	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	11/11/20 12:27	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/11/20 12:27	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)

100 % 73.3-129

11/11/20
12:27

8021B

MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	11/10/20 21:12	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	11/10/20 21:12	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	11/10/20 21:12	8015B		MS

Surrogate: 1-Chlorooctane

83.6 % 44.3-144

11/10/20
21:12

8015B

MS

Surrogate: 1-Chlorooctadecane

79.6 % 42.2-156

11/10/20
21:12

8015B

MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS
2-Methylnaphthalene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C		MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	11/11/20 19:11	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:11	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:11	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	11/11/20 19:11	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS
Fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C		MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:11	8270C		MS
Benzo[a]anthracene*	0.007	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C	J	MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	11/11/20 19:11	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:11	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS

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Project: Table 910
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Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS02**2011065-02 (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	11/11/20 19:11	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:11	8270C		MS
Surrogate: Nitrobenzene-d5			92.5 %	11.5-118		11/11/20 19:11	8270C		MS
Surrogate: 2-Fluorobiphenyl			96.0 %	19.4-118		11/11/20 19:11	8270C		MS
Surrogate: Terphenyl-d14			96.3 %	20.1-127		11/11/20 19:11	8270C		MS

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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS03**2011065-03 (Soil)**

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

% Dry Solids	72.8			%	1	11/09/20 12:48	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	72.3	0.500	0.083	mg/L	5	11/11/20 15:36	EPA200.7		AES
Conductivity	3780			umho/cm @ 25.0°C	1	11/11/20 11:00	ASA#9 10-3.3		VJW
Magnesium	12.9	0.500	0.117	mg/L	5	11/11/20 15:36	EPA200.7		AES
pH	8.04			pH Units	1	11/11/20 08:15	ASA#9 10-3.2		VJW
SAR	16.5			No Unit	1	11/11/20 15:36	Calculation		AES
Sodium	580	5.00	0.503	mg/L	5	11/11/20 15:36	EPA200.7		AES

Total Metals by ICP

Barium	525	5.00	0.318	mg/kg dry	100	11/18/20 16:06	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	11/18/20 16:06	6010B		AES
Chromium	8.35	5.00	0.416	mg/kg dry	100	11/18/20 16:06	6010B		AES
Copper	14.2	5.00	1.40	mg/kg dry	100	11/18/20 16:06	6010B		AES
Lead	<10.0	10.0	0.661	mg/kg dry	100	11/18/20 16:06	6010B		AES
Nickel	8.47	5.00	0.507	mg/kg dry	100	11/18/20 16:06	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	11/18/20 16:05	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	11/18/20 16:06	6010B		AES
Zinc	41.1	10.0	2.60	mg/kg dry	100	11/18/20 16:06	6010B		AES

Total Metals by ICPMS

Arsenic	2.51	1.00	0.0807	mg/kg dry	1000	11/19/20 12:05	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0549	0.0549	0.0032	mg/kg dry	200	11/10/20 12:29	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	11/11/20 16:10	EPA200.7		AES
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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

SS03

2011065-03 (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	11/11/20 12:41	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	11/11/20 12:41	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	11/11/20 12:41	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	11/11/20 12:41	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	11/11/20 12:41	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)

100 % 73.3-129

11/11/20
12:41

8021B

MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	11/10/20 21:35	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	11/10/20 21:35	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	11/10/20 21:35	8015B		MS

Surrogate: 1-Chlorooctane

85.5 % 44.3-144

11/10/20
21:35

8015B

MS

Surrogate: 1-Chlorooctadecane

82.5 % 42.2-156

11/10/20
21:35

8015B

MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS
2-Methylnaphthalene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	11/11/20 19:39	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:39	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:39	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	11/11/20 19:39	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS
Fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	11/11/20 19:39	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	11/11/20 19:39	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	11/11/20 19:39	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

SS03**2011065-03 (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	11/11/20 19:39	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	11/11/20 19:39	8270C		MS
Surrogate: Nitrobenzene-d5			83.3 %	11.5-118		11/11/20 19:39	8270C		MS
Surrogate: 2-Fluorobiphenyl			90.7 %	19.4-118		11/11/20 19:39	8270C		MS
Surrogate: Terphenyl-d14			88.8 %	20.1-127		11/11/20 19:39	8270C		MS

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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

SS04

2011065-04 (Soil)

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

% Dry Solids	92.8			%	1	11/09/20 12:48	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	43.8	0.100	0.017	mg/L	1	11/11/20 15:38	EPA200.7		AES
Conductivity	311			umho/cm @ 25.0°C	1	11/11/20 11:00	ASA#9 10-3.3		VJW
Magnesium	8.46	0.100	0.023	mg/L	1	11/11/20 15:38	EPA200.7		AES
pH	6.52			pH Units	1	11/11/20 08:15	ASA#9 10-3.2		VJW
SAR	0.43			No Unit	1	11/11/20 15:38	Calculation		AES
Sodium	12.0	1.00	0.101	mg/L	1	11/11/20 15:38	EPA200.7		AES

Total Metals by ICP

Barium	388	5.00	0.318	mg/kg dry	100	11/18/20 16:09	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	11/18/20 16:09	6010B		AES
Chromium	10.3	5.00	0.416	mg/kg dry	100	11/18/20 16:09	6010B		AES
Copper	11.4	5.00	1.40	mg/kg dry	100	11/18/20 16:09	6010B		AES
Lead	14.1	10.0	0.661	mg/kg dry	100	11/18/20 16:09	6010B		AES
Nickel	11.2	5.00	0.507	mg/kg dry	100	11/18/20 16:09	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	11/18/20 16:09	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	11/18/20 16:09	6010B		AES
Zinc	51.3	10.0	2.60	mg/kg dry	100	11/18/20 16:09	6010B		AES

Total Metals by ICPMS

Arsenic	1.64	1.00	0.0807	mg/kg dry	1000	11/19/20 12:08	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0431	0.0431	0.0025	mg/kg dry	200	11/10/20 12:29	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	11/11/20 16:12	EPA200.7		AES
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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

WS01

2011065-05 (Produced Water)

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

Alkalinity, Bicarbonate as CaCO3*	2700	10.0	7.16	mg/L	5	11/09/20 14:20	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	290	10.0		mg/L	5	11/09/20 14:20	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	5	11/09/20 14:20	2320 B		VJW
Alkalinity, Total as CaCO3*	2990	10.0	7.16	mg/L	5	11/09/20 14:20	2320 B		VJW
Chloride*	1280	100	8.86	mg/L	100	11/11/20 17:51	EPA300.0		AES
Conductivity*	9070	1.00		umho/cm @ 25.0°C	1	11/06/20 16:05	2510 B		VJW
pH*	8.38			pH Units	1	11/06/20 16:05	EPA150.1		VJW
Resistivity	110			ohm/cm	1	11/06/20 16:05	2510 B		VJW
Total Dissolved Solids*	5930	20.0		mg/L	2	11/11/20 16:45	EPA160.1		VJW
Specific Gravity	1.006	0.8000		No Unit	1	11/10/20 13:55	ASTM D1429-03		VJW
Sulfate*	<10.0	10.0	1.52	mg/L	10	11/12/20 10:07	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Iron*	16.8	0.500	0.163	mg/L	10	11/17/20 15:04	EPA200.7		AES
Manganese*	0.748	0.200	0.027	mg/L	10	11/17/20 15:04	EPA200.7		AES

Dissolved Metals by ICP

Barium*	4.49	0.400	0.031	mg/L	20	11/11/20 13:45	EPA200.7		AES
Calcium*	16.7	2.00	0.332	mg/L	20	11/11/20 13:45	EPA200.7		AES
Hardness as CaCO3	70.4	13.2	2.76	mg/L	20	11/11/20 13:45	2340 B		AES
Iron*	<1.00	1.00	0.368	mg/L	20	11/11/20 13:45	EPA200.7		AES
Magnesium*	6.96	2.00	0.470	mg/L	20	11/11/20 13:45	EPA200.7		AES
Potassium*	<20.0	20.0	2.60	mg/L	20	11/11/20 13:45	EPA200.7		AES
Sodium*	2080	20.0	2.01	mg/L	20	11/11/20 13:45	EPA200.7		AES
Strontium*	3.74	2.00	0.083	mg/L	20	11/11/20 13:45	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001	0.001	0.00006	mg/L	1	11/10/20 19:35	8021B		MS
Toluene*	<0.001	0.001	0.0003	mg/L	1	11/10/20 19:35	8021B		MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	11/10/20 19:35	8021B		MS
Total Xylenes*	<0.003	0.003	0.0003	mg/L	1	11/10/20 19:35	8021B		MS
Total BTEX	<0.006	0.006	0.0005	mg/L	1	11/10/20 19:35	8021B		MS

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

WS01**2011065-05 (Produced Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Surrogate: 4-Bromofluorobenzene (PID)	104 %	58.2-133				11/10/20 19:35	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0744	mg/L	0.1	11/10/20 15:49	8015B		MS
DRO >C10-C28*	6.97	1.00	0.390	mg/L	0.1	11/10/20 15:49	8015B		MS
EXT DRO >C28-C36	2.59	1.00	0.390	mg/L	0.1	11/10/20 15:49	8015B		MS
Surrogate: 1-Chlorooctane	75.2 %	34.5-148				11/10/20 15:49	8015B		MS
Surrogate: 1-Chlorooctadecane	72.4 %	46.4-149				11/10/20 15:49	8015B		MS

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

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 B202394 - General Prep - Wet Chem

Blank (B202394-BLK1)

Prepared & Analyzed: 11/09/20

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L

LCS (B202394-BS1)

Prepared & Analyzed: 11/09/20

Alkalinity, Bicarbonate as CaCO ₃	101	10.0	mg/L			85-115
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L			85-115
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L			85-115
Alkalinity, Total as CaCO ₃	101	10.0	mg/L	100	101	85-115

LCS Dup (B202394-BSD1)

Prepared & Analyzed: 11/09/20

Alkalinity, Bicarbonate as CaCO ₃	100	10.0	mg/L			85-115	0.995	20
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L			85-115		20
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L			85-115		20
Alkalinity, Total as CaCO ₃	100	10.0	mg/L	100	100	85-115	0.995	20

Batch B202399 - General Prep - Wet Chem

Reference (B202399-SRM1)

Prepared & Analyzed: 11/06/20

pH	6.97		pH Units	7.00	99.6	98.57-101.42
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Batch B202404 - General Prep - Wet Chem

Reference (B202404-SRM1)

Prepared & Analyzed: 11/06/20

Conductivity	615	1.00	umho/cm @ 25.0°C	599	103	90-110
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Batch B202413 - General Prep - Wet Chem

Blank (B202413-BLK1)

Prepared: 11/10/20 Analyzed: 11/11/20

Chloride	ND	1.00	mg/L
Sulfate	ND	1.00	mg/L

LCS (B202413-BS1)

Prepared: 11/10/20 Analyzed: 11/11/20

Chloride	23.8	1.00	mg/L	25.0	95.0	90-110
Sulfate	24.3	1.00	mg/L	25.0	97.1	90-110

LCS Dup (B202413-BSD1)

Prepared: 11/10/20 Analyzed: 11/11/20

Chloride	23.6	1.00	mg/L	25.0	94.5	90-110	0.566	20
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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202413 - General Prep - Wet Chem (Continued)**LCS Dup (B202413-BSD1) (Continued)**

Prepared: 11/10/20 Analyzed: 11/11/20

Sulfate	24.3	1.00	mg/L	25.0		97.2	90-110	0.0906	20	
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Batch B202420 - General Prep - Wet Chem**Blank (B202420-BLK1)**

Prepared & Analyzed: 11/11/20

Total Dissolved Solids	ND	10.0	mg/L							
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Reference (B202420-SRM1)

Prepared & Analyzed: 11/11/20

Total Dissolved Solids	375	10.0	mg/L	380		98.7	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 B202408 - Paste Extract**Blank (B202408-BLK1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Reference (B202408-SRM1)

Prepared: 11/10/20 Analyzed: 11/11/20

SAR	5.87		No Unit	5.79		101	90-110			
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Batch B202409 - Paste Extract**Reference (B202409-SRM1)**

Prepared: 11/10/20 Analyzed: 11/11/20

Conductivity	3130		umho/cm @ 25.0°C	2930		107	90-110			
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Batch B202410 - Paste Extract**Reference (B202410-SRM1)**

Prepared: 11/10/20 Analyzed: 11/11/20

pH	7.04		pH Units	6.98		101	95-105			
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Green Analytical Laboratories

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

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 B202436 - EPA 3050

Blank (B202436-BLK1)

Prepared: 11/12/20 Analyzed: 11/18/20

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 (B202436-BS1)

Prepared: 11/12/20 Analyzed: 11/18/20

Barium	189	5.00	mg/kg dry	200	94.4	80-120
Cadmium	175	5.00	mg/kg dry	200	87.5	80-120
Chromium	188	5.00	mg/kg dry	200	93.8	80-120
Copper	392	5.00	mg/kg dry	400	98.1	80-120
Lead	181	10.0	mg/kg dry	200	90.5	80-120
Nickel	180	5.00	mg/kg dry	200	90.2	80-120
Selenium	791	20.0	mg/kg dry	800	98.8	80-120
Silver	9.11	1.00	mg/kg dry	10.0	91.1	80-120
Zinc	170	10.0	mg/kg dry	200	85.2	80-120

LCS Dup (B202436-BSD1)

Prepared: 11/12/20 Analyzed: 11/18/20

Barium	194	5.00	mg/kg dry	200	96.9	80-120	2.62	20
Cadmium	180	5.00	mg/kg dry	200	90.0	80-120	2.81	20
Chromium	193	5.00	mg/kg dry	200	96.3	80-120	2.62	20
Copper	402	5.00	mg/kg dry	400	100	80-120	2.40	20
Lead	185	10.0	mg/kg dry	200	92.5	80-120	2.23	20
Nickel	184	5.00	mg/kg dry	200	91.9	80-120	1.92	20
Selenium	808	20.0	mg/kg dry	800	101	80-120	2.11	20
Silver	9.46	1.00	mg/kg dry	10.0	94.6	80-120	3.69	20
Zinc	174	10.0	mg/kg dry	200	87.2	80-120	2.35	20

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

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 B202466 - Total Rec. 200.7/200.8/200.2

Blank (B202466-BLK1)

Prepared: 11/16/20 Analyzed: 11/17/20

Iron	ND	0.050	mg/L							
Manganese	ND	0.020	mg/L							

LCS (B202466-BS1)

Prepared: 11/16/20 Analyzed: 11/17/20

Iron	3.94	0.050	mg/L	4.00		98.4	85-115			
Manganese	2.00	0.020	mg/L	2.00		100	85-115			

LCS Dup (B202466-BSD1)

Prepared: 11/16/20 Analyzed: 11/17/20

Iron	3.95	0.050	mg/L	4.00		98.8	85-115	0.391	20	
Manganese	1.99	0.020	mg/L	2.00		99.6	85-115	0.516	20	

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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

Dissolved 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 B202416 - Diss. 200.7/200.8

Blank (B202416-BLK1)

Prepared & Analyzed: 11/11/20

Barium	ND	0.020	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L
Strontium	ND	0.100	mg/L

LCS (B202416-BS1)

Prepared & Analyzed: 11/11/20

Barium	2.50	0.020	mg/L	2.50	100	85-115
Calcium	4.86	0.100	mg/L	5.00	97.1	85-115
Iron	4.82	0.050	mg/L	5.00	96.4	85-115
Magnesium	24.6	0.100	mg/L	25.0	98.2	85-115
Potassium	9.91	1.00	mg/L	10.0	99.1	85-115
Sodium	4.03	1.00	mg/L	4.05	99.4	85-115
Strontium	4.89	0.100	mg/L	5.00	97.8	85-115

LCS Dup (B202416-BSD1)

Prepared & Analyzed: 11/11/20

Barium	2.48	0.020	mg/L	2.50	99.2	85-115	0.932	20
Calcium	4.81	0.100	mg/L	5.00	96.1	85-115	1.03	20
Iron	4.76	0.050	mg/L	5.00	95.2	85-115	1.31	20
Magnesium	24.2	0.100	mg/L	25.0	97.0	85-115	1.25	20
Potassium	9.80	1.00	mg/L	10.0	98.0	85-115	1.15	20
Sodium	3.99	1.00	mg/L	4.05	98.5	85-115	0.946	20
Strontium	4.88	0.100	mg/L	5.00	97.5	85-115	0.335	20

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Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

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 B202437 - EPA 3050M

Blank (B202437-BLK1)

Prepared: 11/12/20 Analyzed: 11/19/20

Arsenic ND 0.100 mg/kg dry

LCS (B202437-BS1)

Prepared: 11/12/20 Analyzed: 11/19/20

Arsenic 4.80 0.100 mg/kg dry 5.00 96.0 80-120

LCS Dup (B202437-BSD1)

Prepared: 11/12/20 Analyzed: 11/19/20

Arsenic 4.76 0.100 mg/kg dry 5.00 95.2 80-120 0.802 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 B202385 - EPA 7471

Blank (B202385-BLK1)

Prepared: 11/06/20 Analyzed: 11/10/20

Mercury ND 0.0002 mg/kg wet

LCS (B202385-BS1)

Prepared: 11/06/20 Analyzed: 11/10/20

Mercury 0.0050 0.0002 mg/kg wet 0.00500 101 85-115

LCS Dup (B202385-BSD1)

Prepared: 11/06/20 Analyzed: 11/10/20

Mercury 0.0051 0.0002 mg/kg wet 0.00500 101 85-115 0.555 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 B202411 - Hot Water Soluble Metals Extract

Blank (B202411-BLK1)

Prepared: 11/10/20 Analyzed: 11/11/20

Boron ND 1.20 mg/L

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BP America
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Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

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 0110906 - Volatiles

Blank (0110906-BLK1)

Prepared: 11/09/20 Analyzed: 11/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/L	0.0500		105	58.2-133			
Benzene	ND	0.001	mg/L							
Ethylbenzene	ND	0.001	mg/L							
Toluene	ND	0.001	mg/L							
Total BTEX	ND	0.006	mg/L							
Total Xylenes	ND	0.003	mg/L							

LCS (0110906-BS1)

Prepared: 11/09/20 Analyzed: 11/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/L	0.0500		99.7	58.2-133			
Benzene	0.021	0.001	mg/L	0.0200		103	93.9-124			
Ethylbenzene	0.020	0.001	mg/L	0.0200		102	94.1-118			
Toluene	0.020	0.001	mg/L	0.0200		98.4	92.3-119			
Total Xylenes	0.061	0.003	mg/L	0.0600		102	90.9-119			

LCS Dup (0110906-BSD1)

Prepared: 11/09/20 Analyzed: 11/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/L	0.0500		104	58.2-133			
Benzene	0.021	0.001	mg/L	0.0200		103	93.9-124	0.0485	4.03	
Ethylbenzene	0.021	0.001	mg/L	0.0200		104	94.1-118	1.90	4.43	
Toluene	0.020	0.001	mg/L	0.0200		98.7	92.3-119	0.345	3.89	
Total Xylenes	0.062	0.003	mg/L	0.0600		104	90.9-119	1.60	4.34	

Batch 0111101 - Volatiles

Blank (0111101-BLK1)

Prepared & Analyzed: 11/11/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0503		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 (0111101-BS1)

Prepared & Analyzed: 11/11/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0479		mg/kg	0.0500		95.8	73.3-129			
Benzene	1.97	0.050	mg/kg	2.00		98.5	72.2-131			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	68.9-126			
Toluene	1.89	0.050	mg/kg	2.00		94.6	71.7-126			
Total Xylenes	5.67	0.150	mg/kg	6.00		94.5	71.4-125			

LCS Dup (0111101-BSD1)

Prepared & Analyzed: 11/11/20

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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

**Volatile Organic Compounds by EPA Method 8021 - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0111101 - Volatiles (Continued)

LCS Dup (0111101-BSD1) (Continued)

Prepared & Analyzed: 11/11/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.4	73.3-129			
Benzene	1.97	0.050	mg/kg	2.00		98.3	72.2-131	0.134	14.6	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.1	68.9-126	0.288	18.9	
Toluene	1.89	0.050	mg/kg	2.00		94.3	71.7-126	0.323	17.4	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	0.344	18.5	

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Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

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 0111001 - General Prep - Organics

Blank (0111001-BLK1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	3.53		mg/L	5.00		70.6	46.4-149			
Surrogate: 1-Chlorooctane	3.70		mg/L	5.00		74.1	34.5-148			
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
GRO C6-C10	ND	1.00	mg/L							

LCS (0111001-BS1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	4.29		mg/L	5.00		85.7	46.4-149			
Surrogate: 1-Chlorooctane	4.29		mg/L	5.00		85.8	34.5-148			
DRO >C10-C28	49.7	1.00	mg/L	50.0		99.4	81.3-121			
GRO C6-C10	51.3	1.00	mg/L	50.0		103	73.2-116			

LCS Dup (0111001-BSD1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	4.18		mg/L	5.00		83.7	46.4-149			
Surrogate: 1-Chlorooctane	4.26		mg/L	5.00		85.2	34.5-148			
DRO >C10-C28	50.0	1.00	mg/L	50.0		99.9	81.3-121	0.496	9.19	
GRO C6-C10	52.0	1.00	mg/L	50.0		104	73.2-116	1.26	4.68	

Batch 0111011 - General Prep - Organics

Blank (0111011-BLK1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	42.2-156			
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	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 (0111011-BS1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	42.2-156			
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	44.3-144			
DRO >C10-C28	215	10.0	mg/kg	200		108	80-132			
GRO C6-C10	220	10.0	mg/kg	200		110	78.8-127			
Total TPH C6-C28	435	10.0	mg/kg	400		109	81.3-128			

LCS Dup (0111011-BSD1)

Prepared & Analyzed: 11/10/20

Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	42.2-156			
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	44.3-144			
DRO >C10-C28	223	10.0	mg/kg	200		112	80-132	3.64	17.1	

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Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0111011 - General Prep - Organics (Continued)

LCS Dup (0111011-BSD1) (Continued)

Prepared & Analyzed: 11/10/20

GRO C6-C10	233	10.0	mg/kg	200		117	78.8-127	5.84	15.1	
Total TPH C6-C28	457	10.0	mg/kg	400		114	81.3-128	4.76	15	

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BP America
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Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48

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 0111005 - SW846-3510

Blank (0111005-BLK1)

Prepared & Analyzed: 11/11/20

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.86		mg/kg	2.00		93.1	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]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	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							
Surrogate: Nitrobenzene-d5	1.73		mg/kg	2.00		86.5	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.84		mg/kg	2.00		92.2	20.1-127			

LCS (0111005-BS1)

Prepared & Analyzed: 11/11/20

1-Methylnaphthalene	0.320	0.040	mg/kg	0.400		80.1	41.5-115			
Surrogate: 2-Fluorobiphenyl	1.64		mg/kg	2.00		82.2	19.4-118			
2-Methylnaphthalene	0.322	0.040	mg/kg	0.400		80.6	41.3-115			
Acenaphthene	0.335	0.040	mg/kg	0.400		83.6	40.8-115			
Acenaphthylene	0.335	0.040	mg/kg	0.400		83.7	39.6-115			
Anthracene	0.328	0.040	mg/kg	0.400		81.9	41.6-116			
Benzo[a]anthracene	0.344	0.040	mg/kg	0.400		86.1	38.1-120			
Benzo[a]pyrene	0.354	0.040	mg/kg	0.400		88.6	43.2-122			
Benzo[b]fluoranthene	0.352	0.040	mg/kg	0.400		87.9	36-129			
Benzo[g,h,i]perylene	0.356	0.040	mg/kg	0.400		88.9	29.6-131			
Benzo[k]fluoranthene	0.350	0.040	mg/kg	0.400		87.5	40.9-123			
Carbazole	0.337	0.040	mg/kg	0.400		84.2	41.3-117			
Chrysene	0.385	0.040	mg/kg	0.400		96.3	39.4-118			
Dibenz[a,h]anthracene	0.349	0.040	mg/kg	0.400		87.1	37-123			
Fluoranthene	0.321	0.040	mg/kg	0.400		80.4	42.5-116			

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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve MoskalReported:
11/19/20 16:48Polynuclear 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 0111005 - SW846-3510 (Continued)

LCS (0111005-BS1) (Continued)

Prepared & Analyzed: 11/11/20

Fluorene	0.313	0.040	mg/kg	0.400		78.2	40.8-115			
Indeno[1,2,3-cd]pyrene	0.383	0.040	mg/kg	0.400		95.7	40.5-121			
Naphthalene	0.310	0.040	mg/kg	0.400		77.6	37.2-118			
Surrogate: Nitrobenzene-d5	1.59		mg/kg	2.00		79.6	11.5-118			
Phenanthrene	0.330	0.040	mg/kg	0.400		82.4	41.6-117			
Pyrene	0.343	0.040	mg/kg	0.400		85.9	38.2-121			
Surrogate: Terphenyl-d14	1.66		mg/kg	2.00		82.9	20.1-127			

LCS Dup (0111005-BS1)

Prepared & Analyzed: 11/11/20

1-Methylnaphthalene	0.313	0.040	mg/kg	0.400		78.3	41.5-115	2.34	5.67	
Surrogate: 2-Fluorobiphenyl	1.65		mg/kg	2.00		82.6	19.4-118			
2-Methylnaphthalene	0.326	0.040	mg/kg	0.400		81.4	41.3-115	1.02	5.43	
Acenaphthene	0.335	0.040	mg/kg	0.400		83.6	40.8-115	0.00598	5.45	
Acenaphthylene	0.335	0.040	mg/kg	0.400		83.8	39.6-115	0.102	4.49	
Anthracene	0.326	0.040	mg/kg	0.400		81.4	41.6-116	0.613	3.74	
Benzo[a]anthracene	0.355	0.040	mg/kg	0.400		88.8	38.1-120	3.10	3.05	QR-04
Benzo[a]pyrene	0.343	0.040	mg/kg	0.400		85.8	43.2-122	3.10	3.42	
Benzo[b]fluoranthene	0.351	0.040	mg/kg	0.400		87.6	36-129	0.345	32.9	
Benzo[g,h,i]perylene	0.322	0.040	mg/kg	0.400		80.6	29.6-131	9.86	6.1	QR-04
Benzo[k]fluoranthene	0.351	0.040	mg/kg	0.400		87.8	40.9-123	0.336	6.97	
Carbazole	0.332	0.040	mg/kg	0.400		82.9	41.3-117	1.56	5.33	
Chrysene	0.510	0.040	mg/kg	0.400		128	39.4-118	27.9	2.77	BS1, QR-04
Dibenz[a,h]anthracene	0.335	0.040	mg/kg	0.400		83.9	37-123	3.84	5.52	
Fluoranthene	0.324	0.040	mg/kg	0.400		81.1	42.5-116	0.938	6.41	
Fluorene	0.318	0.040	mg/kg	0.400		79.5	40.8-115	1.61	5.01	
Indeno[1,2,3-cd]pyrene	0.358	0.040	mg/kg	0.400		89.4	40.5-121	6.85	4.92	QR-04
Naphthalene	0.317	0.040	mg/kg	0.400		79.4	37.2-118	2.30	4.51	
Surrogate: Nitrobenzene-d5	1.56		mg/kg	2.00		78.1	11.5-118			
Phenanthrene	0.330	0.040	mg/kg	0.400		82.4	41.6-117	0.0334	4.53	
Pyrene	0.348	0.040	mg/kg	0.400		87.1	38.2-121	1.39	8.61	
Surrogate: Terphenyl-d14	1.72		mg/kg	2.00		86.1	20.1-127			

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Jeremy D Allen For Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: Table 910
Project Name / Number: Simms E #1 & #3
Project Manager: Steve Moskal

Reported:
11/19/20 16:48

Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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 For Debbie Zufelt, Reports Manager

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* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.