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26 December 2018

Steve Moskal
BP America
380 Airport Rd.
Durango, CO 81303
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 12/07/18 12:05. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any 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
380 Airport Rd.
Durango CO, 81303

Project: Table 910
Project Name / Number: Richardson G2
Project Manager: Steve Moskal

Reported:
12/26/18 11:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	1812060-01	Solid	12/07/18 11:10	12/07/18 12:05	
SS02	1812060-02	Solid	12/07/18 10:55	12/07/18 12:05	
SS03	1812060-03	Solid	12/07/18 10:30	12/07/18 12:05	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS01

1812060-01 (Solid)

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

% Dry Solids	82.4			%	1	12/14/18	EPA160.3/1684		JDA
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Saturated Paste Extraction

Calcium	37.9	0.100	0.013	mg/L	1	12/18/18	EPA200.7		AES
Conductivity	570			umhos/cm	1	12/18/18	ASA#9 10-3.3		JDA
Magnesium	8.56	0.100	0.019	mg/L	1	12/18/18	EPA200.7		AES
pH	7.62			pH Units	1	12/18/18	ASA#9 12-2.6		JDA
SAR	3.60			No Unit	1	12/18/18	Calculation		AES
Sodium	94.2	1.00	0.367	mg/L	1	12/18/18	EPA200.7		AES

Total Metals by ICP

Barium	411	5.00	0.049	mg/kg dry	100	12/13/18	6010B		AES
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	12/13/18	6010B		AES
Chromium	9.89	5.00	0.075	mg/kg dry	100	12/13/18	6010B		AES
Copper	<5.00	5.00	0.117	mg/kg dry	100	12/13/18	6010B		AES
Lead	12.5	10.0	0.576	mg/kg dry	100	12/13/18	6010B		AES
Nickel	9.15	5.00	0.213	mg/kg dry	100	12/13/18	6010B		AES
Selenium	<20.0	20.0	1.42	mg/kg dry	100	12/13/18	6010B		AES
Silver	<1.00	1.00	0.191	mg/kg dry	100	12/13/18	6010B		AES
Zinc	47.9	5.00	0.165	mg/kg dry	100	12/13/18	6010B		AES

Total Metals by ICPMS

Arsenic	2.58	1.00	0.214	mg/kg dry	1000	12/14/18	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0485	0.0485	0.0202	mg/kg dry	200	12/13/18	EPA7471		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	12/18/18	EPA200.7		AES
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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS01

1812060-01 (Solid)

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	0.002	mg/kg	50	12/12/18	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	12/12/18	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	12/12/18	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	12/12/18	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/12/18	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129 12/12/18 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	12/12/18	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS

Surrogate: 1-Chlorooctane 107 % 41-142 12/12/18 8015B MS

Surrogate: 1-Chlorooctadecane 115 % 37.6-147 12/12/18 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	12/18/18	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	12/18/18	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS

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Debbie Zufelt, Reports Manager

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS01

1812060-01 (Solid)

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

Polynuclear Aromatic Compounds by GC/MS

Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Surrogate: Nitrobenzene-d5			70.7 %	10.8-154		12/18/18	8270C		MS
Surrogate: 2-Fluorobiphenyl			74.5 %	16.9-156		12/18/18	8270C		MS
Surrogate: Terphenyl-d14			85.5 %	27-170		12/18/18	8270C		MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS02

1812060-02 (Solid)

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

% Dry Solids	77.4			%	1	12/14/18	EPA160.3/1684		JDA
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Saturated Paste Extraction

Calcium	60.8	0.100	0.013	mg/L	1	12/18/18	EPA200.7		AES
Conductivity	486			umhos/cm	1	12/18/18	ASA#9 10-3.3		JDA
Magnesium	12.9	0.100	0.019	mg/L	1	12/18/18	EPA200.7		AES
pH	6.37			pH Units	1	12/18/18	ASA#9 12-2.6		JDA
SAR	0.60			No Unit	1	12/18/18	Calculation		AES
Sodium	19.7	1.00	0.367	mg/L	1	12/18/18	EPA200.7		AES

Total Metals by ICP

Barium	378	5.00	0.049	mg/kg dry	100	12/13/18	6010B		AES
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	12/13/18	6010B		AES
Chromium	9.14	5.00	0.075	mg/kg dry	100	12/13/18	6010B		AES
Copper	6.37	5.00	0.117	mg/kg dry	100	12/13/18	6010B		AES
Lead	90.7	10.0	0.576	mg/kg dry	100	12/13/18	6010B		AES
Nickel	8.00	5.00	0.213	mg/kg dry	100	12/13/18	6010B		AES
Selenium	<20.0	20.0	1.42	mg/kg dry	100	12/13/18	6010B		AES
Silver	<1.00	1.00	0.191	mg/kg dry	100	12/13/18	6010B		AES
Zinc	54.3	5.00	0.165	mg/kg dry	100	12/13/18	6010B		AES

Total Metals by ICPMS

Arsenic	2.47	1.00	0.214	mg/kg dry	1000	12/14/18	6020A		AES
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Total Mercury by CVAA

Mercury	0.0550	0.0517	0.0216	mg/kg dry	200	12/13/18	EPA7471		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	12/18/18	EPA200.7		AES
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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS02

1812060-02 (Solid)

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	0.002	mg/kg	50	12/12/18	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	12/12/18	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	12/12/18	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	12/12/18	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/12/18	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129 12/12/18 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	12/12/18	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS

Surrogate: 1-Chlorooctane 112 % 41-142 12/12/18 8015B MS

Surrogate: 1-Chlorooctadecane 116 % 37.6-147 12/12/18 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	12/18/18	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	12/18/18	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS

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Debbie Zufelt, Reports Manager

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS02

1812060-02 (Solid)

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

Polynuclear Aromatic Compounds by GC/MS

Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Surrogate: Nitrobenzene-d5			76.8 %	10.8-154		12/18/18	8270C		MS
Surrogate: 2-Fluorobiphenyl			83.4 %	16.9-156		12/18/18	8270C		MS
Surrogate: Terphenyl-d14			93.8 %	27-170		12/18/18	8270C		MS

Green Analytical Laboratories

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS03

1812060-03 (Solid)

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

% Dry Solids	82.6			%	1	12/14/18	EPA160.3/1684		JDA
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Saturated Paste Extraction

Calcium	31.0	0.100	0.013	mg/L	1	12/18/18	EPA200.7		AES
Conductivity	270			umhos/cm	1	12/18/18	ASA#9 10-3.3		JDA
Magnesium	10.7	0.100	0.019	mg/L	1	12/18/18	EPA200.7		AES
pH	6.20			pH Units	1	12/18/18	ASA#9 12-2.6		JDA
SAR	0.43			No Unit	1	12/18/18	Calculation		AES
Sodium	11.0	1.00	0.367	mg/L	1	12/18/18	EPA200.7		AES

Total Metals by ICP

Barium	265	5.00	0.049	mg/kg dry	100	12/13/18	6010B		AES
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	12/13/18	6010B		AES
Chromium	9.48	5.00	0.075	mg/kg dry	100	12/13/18	6010B		AES
Copper	7.22	5.00	0.117	mg/kg dry	100	12/13/18	6010B		AES
Lead	14.7	10.0	0.576	mg/kg dry	100	12/13/18	6010B		AES
Nickel	8.84	5.00	0.213	mg/kg dry	100	12/13/18	6010B		AES
Selenium	<20.0	20.0	1.42	mg/kg dry	100	12/13/18	6010B		AES
Silver	<1.00	1.00	0.191	mg/kg dry	100	12/13/18	6010B		AES
Zinc	50.6	5.00	0.165	mg/kg dry	100	12/13/18	6010B		AES

Total Metals by ICPMS

Arsenic	1.92	1.00	0.214	mg/kg dry	1000	12/14/18	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0484	0.0484	0.0202	mg/kg dry	200	12/13/18	EPA7471		AES
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	12/18/18	EPA200.7		AES
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Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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SS03

1812060-03 (Solid)

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	0.002	mg/kg	50	12/12/18	8021B		MS
Toluene*	<0.050	0.050	0.002	mg/kg	50	12/12/18	8021B		MS
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	12/12/18	8021B		MS
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	12/12/18	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	12/12/18	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129 12/12/18 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	12/12/18	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	12/12/18	8015B		MS

Surrogate: 1-Chlorooctane 97.4 % 41-142 12/12/18 8015B MS

Surrogate: 1-Chlorooctadecane 105 % 37.6-147 12/12/18 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.014	0.040	0.014	mg/kg	40	12/18/18	8270C		MS
2-Methylnaphthalene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
1-Methylnaphthalene	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Acenaphthylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Acenaphthene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Fluorene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Phenanthrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Carbazole*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Fluoranthene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Benzo[a]anthracene*	<0.008	0.040	0.008	mg/kg	40	12/18/18	8270C		MS
Chrysene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[b]fluoranthene*	<0.009	0.040	0.009	mg/kg	40	12/18/18	8270C		MS
Benzo[k]fluoranthene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Benzo[a]pyrene*	<0.007	0.040	0.007	mg/kg	40	12/18/18	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.010	0.040	0.010	mg/kg	40	12/18/18	8270C		MS
Dibenz[a,h]anthracene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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SS03

1812060-03 (Solid)

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

Polynuclear Aromatic Compounds by GC/MS

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Benzo[g,h,i]perylene*	<0.006	0.040	0.006	mg/kg	40	12/18/18	8270C		MS
Surrogate: Nitrobenzene-d5			71.0 %	10.8-154		12/18/18	8270C		MS
Surrogate: 2-Fluorobiphenyl			81.3 %	16.9-156		12/18/18	8270C		MS
Surrogate: Terphenyl-d14			91.0 %	27-170		12/18/18	8270C		MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B812077 - General Prep - Wet Chem										
Duplicate (B812077-DUP2)		Source: 1812060-03		Prepared: 12/12/18		Analyzed: 12/14/18				
% Dry Solids	81.6		%		82.6			1.22	20	

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B812121 - Paste Extract										
Duplicate (B812121-DUP1)		Source: 1812060-03		Prepared: 12/17/18		Analyzed: 12/18/18				
Calcium	30.2	0.100	mg/L		31.0			2.89	20	
Magnesium	7.87	0.100	mg/L		10.7			30.9	20	R1
SAR	0.40		No Unit		0.43			7.23	20	
Sodium	9.61	1.00	mg/L		11.0			13.8	20	

Batch B812122 - Paste Extract

Duplicate (B812122-DUP1)		Source: 1812060-03		Prepared: 12/17/18		Analyzed: 12/18/18				
Conductivity	230		umhos/cm		270			16.0	20	

Batch B812123 - Paste Extract

Duplicate (B812123-DUP1)		Source: 1812060-03		Prepared: 12/17/18		Analyzed: 12/18/18				
pH	6.19		pH Units		6.20			0.161	20	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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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 B812079 - EPA 3050

Blank (B812079-BLK1)

Prepared: 12/12/18 Analyzed: 12/13/18

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	5.00	mg/kg dry							

LCS (B812079-BS1)

Prepared: 12/12/18 Analyzed: 12/13/18

Barium	196	5.00	mg/kg dry	200		98.2	80-120			
Cadmium	184	5.00	mg/kg dry	200		91.8	80-120			
Chromium	200	5.00	mg/kg dry	200		100	80-120			
Copper	405	5.00	mg/kg dry	400		101	80-120			
Lead	188	10.0	mg/kg dry	200		94.2	80-120			
Nickel	189	5.00	mg/kg dry	200		94.7	80-120			
Selenium	678	20.0	mg/kg dry	800		84.8	80-120			
Silver	9.29	1.00	mg/kg dry	10.0		92.9	80-120			
Zinc	177	5.00	mg/kg dry	200		88.7	80-120			

LCS Dup (B812079-BSD1)

Prepared: 12/12/18 Analyzed: 12/13/18

Barium	195	5.00	mg/kg dry	200		97.6	80-120	0.638	20	
Cadmium	182	5.00	mg/kg dry	200		91.0	80-120	0.910	20	
Chromium	199	5.00	mg/kg dry	200		99.5	80-120	0.661	20	
Copper	403	5.00	mg/kg dry	400		101	80-120	0.419	20	
Lead	187	10.0	mg/kg dry	200		93.6	80-120	0.572	20	
Nickel	188	5.00	mg/kg dry	200		94.0	80-120	0.668	20	
Selenium	674	20.0	mg/kg dry	800		84.3	80-120	0.536	20	
Silver	9.28	1.00	mg/kg dry	10.0		92.8	80-120	0.140	20	
Zinc	176	5.00	mg/kg dry	200		88.2	80-120	0.509	20	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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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 B812080 - EPA 3050M

Blank (B812080-BLK1)		Prepared: 12/12/18 Analyzed: 12/14/18								
Arsenic	ND	0.100	mg/kg dry							
LCS (B812080-BS1)		Prepared: 12/12/18 Analyzed: 12/14/18								
Arsenic	4.78	0.100	mg/kg dry	5.00		95.6	80-120			
LCS Dup (B812080-BSD1)		Prepared: 12/12/18 Analyzed: 12/14/18								
Arsenic	4.99	0.100	mg/kg dry	5.00		99.7	80-120	4.19	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 B812081 - EPA 7471

Blank (B812081-BLK1)		Prepared: 12/12/18 Analyzed: 12/13/18								
Mercury	ND	0.0400	mg/kg wet							
LCS (B812081-BS1)		Prepared: 12/12/18 Analyzed: 12/13/18								
Mercury	0.994	0.0400	mg/kg wet	1.00		99.4	85-115			
LCS Dup (B812081-BSD1)		Prepared: 12/12/18 Analyzed: 12/13/18								
Mercury	0.957	0.0400	mg/kg wet	1.00		95.7	85-115	3.85	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 B812124 - Hot Water Soluble Metals Extract

Blank (B812124-BLK1)		Prepared: 12/17/18 Analyzed: 12/18/18								
Boron	ND	1.20	mg/L							
Duplicate (B812124-DUP1)		Source: 1812049-01 Prepared: 12/17/18 Analyzed: 12/18/18								
Boron	0.403	1.20	mg/L		0.428			5.90	200	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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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 8121202 - Volatiles

Blank (8121202-BLK1)

Prepared & Analyzed: 12/12/18

Surrogate: 4-Bromofluorobenzene (PID)	0.0947		mg/kg	0.100		94.7	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 (8121202-BS1)

Prepared & Analyzed: 12/12/18

Surrogate: 4-Bromofluorobenzene (PID)	0.0930		mg/kg	0.100		93.0	73.3-129			
Benzene	2.08	0.050	mg/kg	2.00		104	72.2-131			
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.1	68.9-126			
Toluene	1.97	0.050	mg/kg	2.00		98.4	71.7-126			
Total Xylenes	5.58	0.150	mg/kg	6.00		92.9	71.4-125			

LCS Dup (8121202-BSD1)

Prepared & Analyzed: 12/12/18

Surrogate: 4-Bromofluorobenzene (PID)	0.0931		mg/kg	0.100		93.1	73.3-129			
Benzene	1.84	0.050	mg/kg	2.00		92.2	72.2-131	12.3	6.91	QR-02
Ethylbenzene	1.65	0.050	mg/kg	2.00		82.7	68.9-126	12.9	7.88	QR-02
Toluene	1.74	0.050	mg/kg	2.00		87.0	71.7-126	12.3	7.12	QR-02
Total Xylenes	4.89	0.150	mg/kg	6.00		81.4	71.4-125	13.2	7.46	QR-02

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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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 8121201 - General Prep - Organics

Blank (8121201-BLK1)

Prepared & Analyzed: 12/12/18

Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	37.6-147			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	41-142			
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							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (8121201-BS1)

Prepared & Analyzed: 12/12/18

Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	37.6-147			
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	41-142			
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138			
GRO C6-C10	205	10.0	mg/kg	200		102	76.5-133			
Total TPH C6-C28	417	10.0	mg/kg	400		104	78-132			

LCS Dup (8121201-BSD1)

Prepared & Analyzed: 12/12/18

Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	37.6-147			
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	41-142			
DRO >C10-C28	221	10.0	mg/kg	200		111	72.9-138	4.26	20.6	
GRO C6-C10	213	10.0	mg/kg	200		106	76.5-133	3.70	20.6	
Total TPH C6-C28	434	10.0	mg/kg	400		108	78-132	3.98	18	

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BP America
380 Airport Rd.
Durango CO, 81303

Project: Table 910
Project Name / Number: Richardson G2
Project Manager: Steve Moskal

Reported:
12/26/18 11:39

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 8121005 - SW846-3510

Blank (8121005-BLK1)

Prepared: 12/10/18 Analyzed: 12/18/18

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.66		mg/kg	2.00		83.1	16.9-156			
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>	1.65		mg/kg	2.00		82.6	10.8-154			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.69		mg/kg	2.00		84.4	27-170			

LCS (8121005-BS1)

Prepared: 12/10/18 Analyzed: 12/18/18

1-Methylnaphthalene	0.369	0.040	mg/kg	0.400		92.4	60-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.58		mg/kg	2.00		78.9	16.9-156			
2-Methylnaphthalene	0.363	0.040	mg/kg	0.400		90.8	36.1-121			
Acenaphthene	0.381	0.040	mg/kg	0.400		95.2	33.9-127			
Acenaphthylene	0.366	0.040	mg/kg	0.400		91.4	34-126			
Anthracene	0.374	0.040	mg/kg	0.400		93.4	39.4-124			
Benzo[a]anthracene	0.407	0.040	mg/kg	0.400		102	40.6-124			
Benzo[a]pyrene	0.417	0.040	mg/kg	0.400		104	38.3-127			
Benzo[b]flouranthene	0.432	0.040	mg/kg	0.400		108	34.4-130			
Benzo[g,h,i]perylene	0.369	0.040	mg/kg	0.400		92.3	29.9-134			
Benzo[k]flouranthene	0.429	0.040	mg/kg	0.400		107	35.5-135			
Carbazole	0.362	0.040	mg/kg	0.400		90.4	31.9-133			
Chrysene	0.402	0.040	mg/kg	0.400		100	41.3-126			
Dibenz[a,h]anthracene	0.402	0.040	mg/kg	0.400		100	35-132			
Fluoranthene	0.356	0.040	mg/kg	0.400		89.1	37.2-123			

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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**Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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Batch 8121005 - SW846-3510 (Continued)

LCS (8121005-BS1) (Continued)

Prepared: 12/10/18 Analyzed: 12/18/18

Fluorene	0.370	0.040	mg/kg	0.400		92.5	35.4-127			
Indeno[1,2,3-cd]pyrene	0.400	0.040	mg/kg	0.400		99.9	33.7-132			
Naphthalene	0.377	0.040	mg/kg	0.400		94.2	28.3-127			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.32</i>		mg/kg	<i>2.00</i>		<i>65.9</i>	<i>10.8-154</i>			
Phenanthrene	0.379	0.040	mg/kg	0.400		94.7	40.2-125			
Pyrene	0.414	0.040	mg/kg	0.400		103	34.3-133			
<i>Surrogate: Terphenyl-d14</i>	<i>1.87</i>		mg/kg	<i>2.00</i>		<i>93.7</i>	<i>27-170</i>			

LCS Dup (8121005-BS1)

Prepared: 12/10/18 Analyzed: 12/18/18

1-Methylnaphthalene	0.379	0.040	mg/kg	0.400		94.6	60-140	2.43	30	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.55</i>		mg/kg	<i>2.00</i>		<i>77.6</i>	<i>16.9-156</i>			
2-Methylnaphthalene	0.380	0.040	mg/kg	0.400		95.1	36.1-121	4.57	15.9	
Acenaphthene	0.372	0.040	mg/kg	0.400		93.1	33.9-127	2.28	13.1	
Acenaphthylene	0.363	0.040	mg/kg	0.400		90.7	34-126	0.788	14.2	
Anthracene	0.376	0.040	mg/kg	0.400		93.9	39.4-124	0.523	16.3	
Benzo[a]anthracene	0.405	0.040	mg/kg	0.400		101	40.6-124	0.571	9.66	
Benzo[a]pyrene	0.421	0.040	mg/kg	0.400		105	38.3-127	0.952	11.8	
Benzo[b]fluoranthene	0.437	0.040	mg/kg	0.400		109	34.4-130	1.22	25.2	
Benzo[g,h,i]perylene	0.379	0.040	mg/kg	0.400		94.6	29.9-134	2.51	19	
Benzo[k]fluoranthene	0.425	0.040	mg/kg	0.400		106	35.5-135	0.962	27.3	
Carbazole	0.371	0.040	mg/kg	0.400		92.8	31.9-133	2.55	20.8	
Chrysene	0.402	0.040	mg/kg	0.400		101	41.3-126	0.0373	10.6	
Dibenz[a,h]anthracene	0.413	0.040	mg/kg	0.400		103	35-132	2.72	15	
Fluoranthene	0.364	0.040	mg/kg	0.400		91.0	37.2-123	2.22	18.3	
Fluorene	0.365	0.040	mg/kg	0.400		91.2	35.4-127	1.40	14.5	
Indeno[1,2,3-cd]pyrene	0.411	0.040	mg/kg	0.400		103	33.7-132	2.75	14.9	
Naphthalene	0.391	0.040	mg/kg	0.400		97.7	28.3-127	3.68	11.3	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.34</i>		mg/kg	<i>2.00</i>		<i>66.9</i>	<i>10.8-154</i>			
Phenanthrene	0.385	0.040	mg/kg	0.400		96.2	40.2-125	1.51	13.7	
Pyrene	0.400	0.040	mg/kg	0.400		100	34.3-133	3.45	22.4	
<i>Surrogate: Terphenyl-d14</i>	<i>1.75</i>		mg/kg	<i>2.00</i>		<i>87.5</i>	<i>27-170</i>			

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Debbie Zufelt

Debbie Zufelt, Reports Manager

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/26/18 11:39
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Notes and Definitions

- R1 Duplicate sample RPD exceeded laboratory acceptance criteria. Sample(s) may be difficult to homogenize.
- 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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