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19 August 2019

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 08/01/19 12:47.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

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: Leroy McCaw B #1
Project Manager: Steve Moskal

Reported:
08/19/19 15:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WS04	1908019-01	Water	08/01/19 10:30	08/01/19 12:47	
SS07	1908019-02	Solid	08/01/19 10:35	08/01/19 12:47	
SS08	1908019-03	Solid	08/01/19 10:50	08/01/19 12:47	

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BP America
380 Airport Rd.
Durango CO, 81303Project: Table 910
Project Name / Number: Leroy McCaw B #1
Project Manager: Steve MoskalReported:
08/19/19 15:47

WS04

1908019-01 (Water)

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

Alkalinity, Bicarbonate as CaCO ₃ *	78.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Total as CaCO ₃ *	78.0	10.0	3.06	mg/L	1	08/12/19	2320 B		VJL
Chloride*	2.81	1.00	0.103	mg/L	1	08/07/19	EPA300.0		AES
Conductivity*	181	10.0		umho/cm @ 25.0°C	1	08/02/19	2510 B		CAB
pH*	7.42			pH Units	1	08/02/19	EPA150.1		CAB
Resistivity	5530			ohm/cm	1	08/02/19	2510 B		CAB
Total Dissolved Solids*	155	10.0		mg/L	1	08/02/19	EPA160.1		VJL
Specific Gravity	0.9990	0.8000		No Unit	1	08/06/19	ASTM D1429-03		VJL
Sulfate*	6.01	1.00	0.213	mg/L	1	08/07/19	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Iron*	0.994	0.500	0.174	mg/L	10	08/06/19	EPA200.7		AES
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Dissolved Metals by ICP

Hardness	74.7	0.662	0.109	mg/L	1	08/08/19	2340 B		AES
Barium*	0.093	0.020	0.002	mg/L	1	08/08/19	EPA200.7		AES
Calcium*	22.9	0.100	0.013	mg/L	1	08/08/19	EPA200.7		AES
Iron*	0.092	0.050	0.028	mg/L	1	08/08/19	EPA200.7		AES
Magnesium*	4.27	0.100	0.019	mg/L	1	08/08/19	EPA200.7		AES
Manganese*	0.045	0.020	0.003	mg/L	1	08/08/19	EPA200.7		AES
Potassium*	3.26	1.00	0.096	mg/L	1	08/08/19	EPA200.7		AES
Sodium*	13.8	1.00	0.367	mg/L	1	08/08/19	EPA200.7		AES
Strontium*	0.290	0.100	0.003	mg/L	1	08/08/19	EPA200.7		AES

Cation/Anion Balance	10.93
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Project Manager: Steve MoskalReported:
08/19/19 15:47

SS07

1908019-02 (Solid)

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

% Dry Solids	94.0			%	1	08/05/19	EPA160.3/1684		VJL
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Saturated Paste Extraction

Calcium	32.3	0.200	0.026	mg/L	2	08/07/19	EPA200.7		AES
Conductivity	1770			umho/cm @ 25.0°C	1	08/06/19	ASA#9 10-3.3		VJL
Magnesium	5.62	0.200	0.038	mg/L	2	08/07/19	EPA200.7		AES
pH	8.17			pH Units	1	08/06/19	ASA#9 12-2.6		VJL
SAR	14.0			No Unit	1	08/07/19	Calculation		AES
Sodium	327	2.00	0.734	mg/L	2	08/07/19	EPA200.7		AES

Total Metals by ICP

Barium	261	5.00	0.049	mg/kg dry	100	08/07/19	6010B		AES
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	08/08/19	6010B		AES
Chromium	8.23	5.00	0.075	mg/kg dry	100	08/07/19	6010B		AES
Copper	18.6	5.00	0.117	mg/kg dry	100	08/07/19	6010B		AES
Lead	10.1	10.0	0.576	mg/kg dry	100	08/07/19	6010B		AES
Nickel	9.31	5.00	0.213	mg/kg dry	100	08/07/19	6010B		AES
Selenium	<20.0	20.0	1.42	mg/kg dry	100	08/07/19	6010B		AES
Silver	<1.00	1.00	0.191	mg/kg dry	100	08/07/19	6010B		AES
Zinc	57.2	10.0	0.165	mg/kg dry	100	08/08/19	6010B		AES

Total Metals by ICPMS

Arsenic	2.82	1.00	0.214	mg/kg dry	1000	08/19/19	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0426	0.0426	0.0177	mg/kg dry	200	08/07/19	EPA7471		LLG
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Hot Water Extractable

Boron	1.28	1.20	0.059	mg/L	4	08/07/19	EPA200.7		AES
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Cation/Anion Balance	100.								
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Project Manager: Steve MoskalReported:
08/19/19 15:47

SS08

1908019-03 (Solid)

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

% Dry Solids	63.0			%	1	08/05/19	EPA160.3/1684		VJL
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Saturated Paste Extraction

Calcium	71.6	0.100	0.013	mg/L	1	08/07/19	EPA200.7		AES
Conductivity	1210			umho/cm @ 25.0°C	1	08/06/19	ASA#9 10-3.3		VJL
Magnesium	11.8	0.100	0.019	mg/L	1	08/07/19	EPA200.7		AES
pH	6.89			pH Units	1	08/06/19	ASA#9 12-2.6		VJL
SAR	6.03			No Unit	1	08/07/19	Calculation		AES
Sodium	209	1.00	0.367	mg/L	1	08/07/19	EPA200.7		AES

Total Metals by ICP

Barium	254	5.00	0.049	mg/kg dry	100	08/07/19	6010B		AES
Cadmium	<5.00	5.00	0.122	mg/kg dry	100	08/08/19	6010B		AES
Chromium	5.17	5.00	0.075	mg/kg dry	100	08/07/19	6010B		AES
Copper	11.7	5.00	0.117	mg/kg dry	100	08/07/19	6010B		AES
Lead	10.6	10.0	0.576	mg/kg dry	100	08/07/19	6010B		AES
Nickel	6.65	5.00	0.213	mg/kg dry	100	08/07/19	6010B		AES
Selenium	<20.0	20.0	1.42	mg/kg dry	100	08/07/19	6010B		AES
Silver	<1.00	1.00	0.191	mg/kg dry	100	08/07/19	6010B		AES
Zinc	53.6	10.0	0.165	mg/kg dry	100	08/08/19	6010B		AES

Total Metals by ICPMS

Arsenic	1.82	1.00	0.214	mg/kg dry	1000	08/19/19	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0635	0.0635	0.0265	mg/kg dry	200	08/07/19	EPA7471		LLG
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Hot Water Extractable

Boron	1.41	1.20	0.059	mg/L	4	08/07/19	EPA200.7		AES
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Cation/Anion Balance	100.								
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380 Airport Rd.
Durango CO, 81303Project: Table 910
Project Name / Number: Leroy McCaw B #1
Project Manager: Steve MoskalReported:
08/19/19 15:47

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B908023 - General Prep - Wet Chem										
Blank (B908023-BLK1)				Prepared & Analyzed: 08/02/19						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (B908023-DUP1)				Source: 1908006-10 Prepared & Analyzed: 08/02/19						
Total Dissolved Solids	335	10.0	mg/L		335			0.0285	20	
Reference (B908023-SRM1)				Prepared & Analyzed: 08/02/19						
Total Dissolved Solids	590	10.0	mg/L	600		98.3	85-115			
Batch B908031 - General Prep - Wet Chem										
Duplicate (B908031-DUP1)				Source: 1908036-01 Prepared & Analyzed: 08/05/19						
% Dry Solids	96.8		%		96.8			0.0164	20	
Batch B908037 - General Prep - Wet Chem										
Duplicate (B908037-DUP1)				Source: 1908019-01 Prepared & Analyzed: 08/02/19						
pH	7.45		pH Units		7.42			0.403	20	
Reference (B908037-SRM1)				Prepared & Analyzed: 08/02/19						
pH	6.96		pH Units	7.00		99.4	98.5-101.4			
Batch B908038 - General Prep - Wet Chem										
Duplicate (B908038-DUP1)				Source: 1908019-01 Prepared & Analyzed: 08/02/19						
Conductivity	182	10.0	umho/cm @ 25.0°C		181			0.551	20	
Reference (B908038-SRM1)				Prepared & Analyzed: 08/02/19						
Conductivity	504	10.0	umho/cm @ 25.0°C	491		103	90-110.1			
Batch B908040 - General Prep - Wet Chem										
Duplicate (B908040-DUP1)				Source: 1908019-01 Prepared: 08/05/19 Analyzed: 08/06/19						
Specific Gravity	0.9990	0.8000	No Unit		0.9990			0.00	20	
Batch B908061 - General Prep - Wet Chem										
Blank (B908061-BLK1)				Prepared & Analyzed: 08/07/19						
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B908061-BS1)				Prepared & Analyzed: 08/07/19						
Chloride	24.4	1.00	mg/L	25.0		97.7	90-110			
Sulfate	24.0	1.00	mg/L	25.0		96.2	90-110			
LCS Dup (B908061-BSD1)				Prepared & Analyzed: 08/07/19						
Chloride	24.2	1.00	mg/L	25.0		96.6	90-110	1.11	20	
Sulfate	24.0	1.00	mg/L	25.0		95.8	90-110	0.363	20	

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BP America
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Durango CO, 81303

Project: Table 910
Project Name / Number: Leroy McCaw B #1
Project Manager: Steve Moskal

Reported:
08/19/19 15:47

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 B908099 - General Prep - Wet Chem

Blank (B908099-BLK1)

Prepared & Analyzed: 08/12/19

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 (B908099-BS1)

Prepared & Analyzed: 08/12/19

Alkalinity, Bicarbonate as CaCO ₃	93.0	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	93.0	10.0	mg/L	100		93.0	85-115			

LCS Dup (B908099-BSD1)

Prepared & Analyzed: 08/12/19

Alkalinity, Bicarbonate as CaCO ₃	101	10.0	mg/L				85-115	8.25	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	101	10.0	mg/L	100		101	85-115	8.25	20	

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Project: Table 910
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Project Manager: Steve Moskal

Reported:
08/19/19 15:47

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch B908045 - Paste Extract

Duplicate (B908045-DUP1) Source: 1908014-02 Prepared & Analyzed: 08/06/19

Conductivity	274		umho/cm @ 25.0°C		261		4.83	20	
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Batch B908046 - Paste Extract

Duplicate (B908046-DUP1) Source: 1908014-02 Prepared & Analyzed: 08/06/19

pH	6.18		pH Units		6.17		0.162	20	
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Batch B908047 - Paste Extract

Blank (B908047-BLK1) Prepared: 08/06/19 Analyzed: 08/07/19

Calcium	ND	0.100	mg/L						
Magnesium	ND	0.100	mg/L						
Sodium	ND	1.00	mg/L						

Duplicate (B908047-DUP1) Source: 1908014-02 Prepared: 08/06/19 Analyzed: 08/07/19

Calcium	36.4	0.100	mg/L		36.7		0.790	20	
Magnesium	8.48	0.100	mg/L		9.56		11.9	20	
SAR	0.30		No Unit		0.31		3.28	20	
Sodium	7.71	1.00	mg/L		8.08		4.74	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 B908033 - EPA 3050

Blank (B908033-BLK1)

Prepared: 08/05/19 Analyzed: 08/07/19

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 (B908033-BS1)

Prepared: 08/05/19 Analyzed: 08/07/19

Barium	167	5.00	mg/kg dry	200	83.6	80-120
Cadmium	186	5.00	mg/kg dry	200	93.0	80-120
Chromium	167	5.00	mg/kg dry	200	83.5	80-120
Copper	351	5.00	mg/kg dry	400	87.7	80-120
Lead	165	10.0	mg/kg dry	200	82.5	80-120
Nickel	164	5.00	mg/kg dry	200	81.8	80-120
Selenium	678	20.0	mg/kg dry	800	84.8	80-120
Silver	8.16	1.00	mg/kg dry	10.0	81.6	80-120
Zinc	186	10.0	mg/kg dry	200	92.9	80-120

LCS Dup (B908033-BSD1)

Prepared: 08/05/19 Analyzed: 08/07/19

Barium	167	5.00	mg/kg dry	200	83.3	80-120	0.426	20
Cadmium	185	5.00	mg/kg dry	200	92.6	80-120	0.432	20
Chromium	166	5.00	mg/kg dry	200	83.2	80-120	0.348	20
Copper	350	5.00	mg/kg dry	400	87.5	80-120	0.140	20
Lead	166	10.0	mg/kg dry	200	82.8	80-120	0.386	20
Nickel	163	5.00	mg/kg dry	200	81.4	80-120	0.464	20
Selenium	670	20.0	mg/kg dry	800	83.7	80-120	1.25	20
Silver	8.08	1.00	mg/kg dry	10.0	80.8	80-120	1.04	20
Zinc	186	10.0	mg/kg dry	200	93.0	80-120	0.125	20

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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 B908017 - Total Rec. 200.7/200.8/200.2

Blank (B908017-BLK1)

Prepared: 08/02/19 Analyzed: 08/06/19

Iron	ND	0.050	mg/L							
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LCS (B908017-BS1)

Prepared: 08/02/19 Analyzed: 08/06/19

Iron	3.96	0.050	mg/L	4.00		98.9	85-115			
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LCS Dup (B908017-BSD1)

Prepared: 08/02/19 Analyzed: 08/06/19

Iron	3.94	0.050	mg/L	4.00		98.5	85-115	0.460	20	
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Project Manager: Steve MoskalReported:
08/19/19 15:47

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 B908079 - Diss. 200.7/200.8

Blank (B908079-BLK1)

Prepared & Analyzed: 08/08/19

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

LCS (B908079-BS1)

Prepared & Analyzed: 08/08/19

Barium	2.40	0.020	mg/L	2.50	96.0	85-115
Calcium	5.13	0.100	mg/L	5.00	103	85-115
Iron	5.00	0.050	mg/L	5.00	100	85-115
Magnesium	24.8	0.100	mg/L	25.0	99.1	85-115
Manganese	2.57	0.020	mg/L	2.50	103	85-115
Potassium	9.69	1.00	mg/L	10.0	96.9	85-115
Sodium	3.95	1.00	mg/L	4.05	97.5	85-115
Strontium	4.99	0.100	mg/L	5.00	99.8	85-115

LCS Dup (B908079-BSD1)

Prepared & Analyzed: 08/08/19

Barium	2.51	0.020	mg/L	2.50	100	85-115	4.30	20
Calcium	5.32	0.100	mg/L	5.00	106	85-115	3.64	20
Iron	5.15	0.050	mg/L	5.00	103	85-115	3.03	20
Magnesium	25.9	0.100	mg/L	25.0	104	85-115	4.46	20
Manganese	2.68	0.020	mg/L	2.50	107	85-115	3.91	20
Potassium	10.1	1.00	mg/L	10.0	101	85-115	3.80	20
Sodium	4.05	1.00	mg/L	4.05	100	85-115	2.59	20
Strontium	5.06	0.100	mg/L	5.00	101	85-115	1.50	20

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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: Leroy McCaw B #1
Project Manager: Steve Moskal

Reported:
08/19/19 15:47

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 B908034 - EPA 3050M

Blank (B908034-BLK1)

Prepared: 08/05/19 Analyzed: 08/19/19

Arsenic ND 0.100 mg/kg dry

LCS (B908034-BS1)

Prepared: 08/05/19 Analyzed: 08/19/19

Arsenic 4.61 0.100 mg/kg dry 5.00 92.3 80-120

LCS Dup (B908034-BSD1)

Prepared: 08/05/19 Analyzed: 08/19/19

Arsenic 4.56 0.100 mg/kg dry 5.00 91.2 80-120 1.14 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 B908049 - EPA 7471

Blank (B908049-BLK1)

Prepared: 08/06/19 Analyzed: 08/07/19

Mercury ND 0.0002 mg/kg wet

LCS (B908049-BS1)

Prepared: 08/06/19 Analyzed: 08/07/19

Mercury 0.0056 0.0002 mg/kg wet 0.00500 111 85-115

LCS Dup (B908049-BSD1)

Prepared: 08/06/19 Analyzed: 08/07/19

Mercury 0.0046 0.0002 mg/kg wet 0.00500 92.1 85-115 18.8 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 B908048 - Hot Water Soluble Metals Extract

Blank (B908048-BLK1)

Prepared: 08/06/19 Analyzed: 08/07/19

Boron ND 1.20 mg/L

Duplicate (B908048-DUP1)

Source: 1908014-02 Prepared: 08/06/19 Analyzed: 08/07/19

Boron 1.00 1.20 mg/L 1.04 4.09 200

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BP America
380 Airport Rd.
Durango CO, 81303

Project: Table 910
Project Name / Number: Leroy McCaw B #1
Project Manager: Steve Moskal

Reported:
08/19/19 15:47

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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