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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'.

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/>

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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
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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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WS04

1908019-01 (Water)

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

Alkalinity, Bicarbonate as CaCO3*	78.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	1	08/12/19	2320 B		VJL
Alkalinity, Total as CaCO3*	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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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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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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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 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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**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 CaCO3	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							
Alkalinity, Total as CaCO3	ND	10.0	mg/L							

LCS (B908099-BS1)

Prepared & Analyzed: 08/12/19

Alkalinity, Bicarbonate as CaCO3	93.0	10.0	mg/L				85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			
Alkalinity, Total as CaCO3	93.0	10.0	mg/L	100		93.0	85-115			

LCS Dup (B908099-BSD1)

Prepared & Analyzed: 08/12/19

Alkalinity, Bicarbonate as CaCO3	101	10.0	mg/L				85-115	8.25	20	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115		20	
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115		20	
Alkalinity, Total as CaCO3	101	10.0	mg/L	100		101	85-115	8.25	20	

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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 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	

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	

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
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							
LCS (B908017-BS1) Prepared: 08/02/19 Analyzed: 08/06/19										
Iron	3.96	0.050	mg/L	4.00		98.9	85-115			
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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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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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
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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
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
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
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
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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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