

30-045-23827

75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

13 March 2019

Sabre Beebe BP America 380 Airport Rd. Durango, CO 81303

RE: API

NMOCD
AR 13 2019
RISTRICT III

Enclosed are the results of analyses for samples received by the laboratory on 02/25/19 12:30. If you need any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Deldie Zufett

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 <a href="http://greenanalytical.com/certifications/">http://greenanalytical.com/certifications/</a>

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.



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BP America

Project: API

380 Airport Rd.

Project Name / Number: [none]

Reported:

Durango CO, 81303

Project Manager: Sabre Beebe

03/13/19 09:46

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received Notes
Florance 117	1902141-01	Water	02/25/19 10:20	02/25/19 12:30

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380 Airport Rd. Durango CO, 81303 Project Name / Number: [none]
Project Manager: Sabre Beebe

Reported:

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#### Florance 117

## 1902141-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate as CaCO3*	145	10.0		mg/L	5	02/28/19	2320 B		JDA
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	5	02/28/19	2320 B		JDA
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	5	02/28/19	2320 B		JDA
Alkalinity, Total as CaCO3*	145	10.0		mg/L	5	02/28/19	2320 B		JDA
Chloride*	11.9	1.00	0.103	mg/L	Ī	02/25/19	EPA300.0		AES
Conductivity*	1400	10.0		uS/cm	I	02/26/19	2510 B		JDA
pH*	6.25			pH Units	1	02/26/19	EPA150.1		JDA
Resistivity	714			ohm/cm	1	03/01/19	2510 B		JDA
Total Dissolved Solids*	710	20.0		mg/L	2	02/26/19	EPA160.1		jda
Specific Gravity	1.004	0.8000		No Unit	Ī	03/01/19	ASTM D1429-03		JDA
Sulfate*	3.95	1.00	0.213	mg/L	1	02/25/19	EPA300.0		AES
Total Recoverable Metals by ICP (E200.	7)								
Iron*	1060	1.00	0.348	mg/L	20	02/28/19	EPA200.7		AES
Dissolved Metals by ICP									
Hardness	<13.2	13.2	2.19	mg/L	20	02/25/19	2340 B		AES
Barium*	< 0.400	0.400	0.042	mg/L	20	02/25/19	EPA200.7		AES
Calcium*	4.69	2.00	0.257	mg/L	20	02/25/19	EPA200.7		AES
Iron*	51.7	1.00	0.553	mg/L	20	02/25/19	EPA200.7		AES
Magnesium*	< 2.00	2.00	0.375	mg/L	20	02/25/19	EPA200.7		AES
Manganese*	0.872	0.400	0.054	mg/L	20	02/25/19	EPA200.7		AES
Potassium*	<20.0	20.0	1.91	mg/L	20	02/25/19	EPA200.7		AES
Sodium*	240	20.0	7.34	mg/L	20	02/25/19	EPA200.7		AES
Strontium*	< 2.00	2.00	0.057	mg/L	20	02/25/19	EPA200.7		AES

Cation/Anion Balance 80.44

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Debbie Zufelt, Reports Manager

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Durango CO, 81303

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BP America Project: API 380 Airport Rd. Project Name / Number: [none]

Project Manager: Sabre Beebe

**Reported:** 03/13/19 09:46

## **General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch B902178 - General Prep - Wet Chem	Result	Emin	Cinto	Level	Result	701120	Emilio			710103		
Blank (B902178-BLK1)			Pren	ared & Ana	lyzed: 02/2:	5/19						
Chloride	ND	1.00	mg/L	area ee 7 ma	19200. 02/2:	7/17						
Sulfate	ND	1.00	mg/L									
LCS (B902178-BS1)			Prep	ared & Ana	lyzed: 02/2:	5/19						
Chloride	23.7	1.00	mg/L	25.0		94.8	90-110					
Sulfate	24.0	1.00	mg/L	25.0		95.9	90-110					
LCS Dup (B902178-BSD1)			Prep	ared & Ana	lyzed: 02/2:	5/19						
Chloride	23.6	1.00	mg/L	25.0		94.4	90-110	0.495	20			
Sulfate	23.5	1.00	mg/L	25.0		93.9	90-110	2.08	20			
Batch B902185 - General Prep - Wet Chem												
Blank (B902185-BLK1)			Prep	ared & Ana	lyzed: 02/20	5/19						
Total Dissolved Solids	ND	10.0	mg/L									
Duplicate (B902185-DUP1)	Sou	rce: 1902112-	01 Prep	ared & Ana	lyzed: 02/2	5/19						
Total Dissolved Solids	305	10.0	mg/L		320			4.79	20			
Reference (B902185-SRM1)			Prep	epared & Analyzed: 02/26/19								
Total Dissolved Solids	415	10.0	mg/L	380		109	85-115					
Batch B902207 - General Prep - Wet Chem												
Blank (B902207-BLK1)			Prep	ared & Ana	lyzed: 02/2	8/19						
Alkalinity, Total as CaCO3	ND	10.0	mg/L									
LCS (B902207-BS1)			Prep	ared & Ana	lyzed: 02/2	8/19						
Alkalinity, Total as CaCO3	102	10.0	mg/L	100		102	85-115					
LCS Dup (B902207-BSD1)			Prep	ared & Ana	lyzed: 02/2	8/19						
Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115	1.98	20			
Batch B903002 - General Prep - Wet Chem												
Duplicate (B903002-DUP1)	Sou	rce: 1902137-	01 Prep	ared & Ana	lyzed: 03/0	1/19						
Specific Gravity	1.013	0.8000	No Unit		1.013			0.00	20			
Batch B903004 - General Prep - Wet Chem												
Duplicate (B903004-DUP1)	Sou	rce: 1902141-	01 Prep	ared & Ana	ilyzed: 02/2	6/19						
Conductivity	1390	10.0	uS/cm		1400			0.715	20			
Reference (B903004-SRM1)			Pren	ared & Ana	ilyzed: 02/2	6/19						
Conductivity	509	10.0	uS/cm	491	,	104	90-110.1					
Batch B903008 - General Prep - Wet Chem												

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Project Name / Number: [none]

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Project Manager: Sabre Beebe

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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
Batch B903008 - General Prep - We	t Chem (Continued)									
Duplicate (B903008-DUP1)	Source	e: 1902141-0	1 Prepa	ared & Ana	lyzed: 02/20	6/19				
pH	6.28		pH Units		6.25			0.479	20	
Reference (B903008-SRM1)			Prepa	ared & Ana	lyzed: 02/2	6/19				
pH	8.97		pH Units	9.13		98.2	97.8-102.2			

## 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 B902186 - Total Rec. 200.7/200.8/	200.2									
Blank (B902186-BLK1)			Prep	ared: 02/26/	19 Analyz	ed: 02/28/19	9			
Iron	ND	0.050	mg/L							
LCS (B902186-BS1)			Prep	ared: 02/26/	19 Analyz	ed: 02/28/19	9			
Iron	4.09	0.050	mg/L	4.00		102	85-115			
LCS Dup (B902186-BSD1)			Prep	ared: 02/26/	19 Analyz	ed: 02/28/19	9			
Iron	4.12	0.050	mg/L	4.00		103	85-115	0.746	20	

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Project: API

380 Airport Rd. Durango CO, 81303 Project Name / Number: [none]
Project Manager: Sabre Beebe

Reported:

03/13/19 09:46

## Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes						
Analyte	Result	Lillit	Omis	Level	Result	70KEC	Lilling	KI D	Limit	Hotes						
Batch B902176 - Diss. 200.7/200.8																
Blank (B902176-BLK1)			Prep	ared & Ana	lyzed: 02/25	5/19										
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 (B902176-BS1)			Prep	Prepared & Analyzed: 02/25/19 L 2.50 95.4 85-115												
Barium	2.38	0.020	mg/L	2.50		95.4	85-115									
Calcium	5.06	0.100	mg/L	5.00		101	85-115									
Iron	4.97	0.050	mg/L	5.00		99.5	85-115									
Magnesium	25.1	0.100	mg/L	25.0		100	85-115									
Manganese	2.44	0.020	mg/L	2.50		97.8	85-115									
Potassium	10.3	1.00	mg/L	10.0		103	85-115									
Sodium	4.01	1.00	mg/L	4.05		99.0	85-115									
Strontium	5.08	0.100	mg/L	5.00		102	85-115									
LCS Dup (B902176-BSD1)			Prep	ared & Ana	lyzed: 02/2:	5/19										
Barium	2.37	0.020	mg/L	2.50		94.9	85-115	0.455	20							
Calcium	4.96	0.100	mg/L	5.00		99.2	85-115	1.95	20							
Iron	4.83	0.050	mg/L	5.00		96.6	85-115	2.92	20							
Magnesium	24.5	0.100	mg/L	25.0		98.0	85-115	2.28	20							
Manganese	2.40	0.020	mg/L	2.50		96.0	85-115	1.81	20							
Potassium	10.6	1.00	mg/L	10.0		106	85-115	2.84	20							
Sodium	3.91	1.00	mg/L	4.05		96.7	85-115	2.42	20							
Strontium	5.02	0.100	mg/L	5.00		100	85-115	1.25	20							

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BP America

Project: API

380 Airport Rd.

Project Name / Number: [none]

Reported:

Durango CO, 81303 Project Manager: Sabre Beebe

03/13/19 09:46

#### **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



BP America
380 Airport Rd.

Durango CO, 81303

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or ab
NR	Not Reported
dry	Sample results reported on a dry we
	*Results reported on as received ba
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank
RL	Report Limit
MDL	Method Detection Limit



## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

FORM-006

service@greenanalytical.com or dzufelt@greenanalytical.com 75 Suttle St Durango, CO 81303

(970) 247-4220

Fax: (970) 247-4227

Company or Client: BP AYWEVICA				Bill to (if different):								ANALYSIS REQUEST													
Address:	· · · ·			M 10.00000000000000000000000000000000000	P.O. #:																				
City:		State:	Zip:		Co	mpan	y:												l						
Phone #:	170-779-9398 Sabre Beeb Sabre, beabe				Attn:																				
Contact Person:	Sabre Beeb	e			Address:																				
Email Report to:	sabre, beabe	3 ppx.	com		City:																				
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Sampler Name (Pr	int):				Eir	ail:																			
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For Lab Use	Sample Name or	Location	Date	Time	BROUNDWATER	SURFACEWATER	WASTEWATER	SOIL	DRINKING WATER	отнея	No preservation (general)	E G	H <sub>2</sub> SO <sub>4</sub>	Other.	Other.	API									
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PLEASE NOTE: GAL's liability a	nd client's exclusive remedy for any claim ansin	ng whether based in contract o	or tort, shall be limited to	o the amount paid b	y the cl	lient for t	he anaiy	yses.	All claim	s inci	luding t	hose fo	or neglig	ence	and an	y other o	ause w	natsoeve	er shail b	e deem	ed waived	unless n	nade in wi	ting and	naceiver
by GAL within 30 days after com- by GAL, regardless of whether si	pletion. In no event shalf GAL be liable for inciduch claim is based upon any of the above stated	tental or consequental damage diteasons or otherwise.	es, including without lin	nitation, business int	erruptk	ons, loss	of use, o	or loss	of profi	ts incu	urred by	y stient.	, its sub	sidiarii	es, affil	lates or	SUCCESS	ors arisid	ng out of	or relat	ed to the p	erforma	sce of sen	rices here	under
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