



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

21 July 2020

Steve Moskal
BP America
1199 Main Ave Suite 101
Durango, CO 81303
RE: API - Classic, Table 910, BTEX/TPH

Enclosed are the results of analyses for samples received by the laboratory on 06/29/20 16:25. This data replaces the previous report (See case narrative). 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 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.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WS01	2006214-01	Water	06/29/20 15:20	06/29/20 16:25	
SS01	2006214-02	Solid	06/29/20 15:10	06/29/20 16:25	
SS02	2006214-03	Solid	06/29/20 15:25	06/29/20 16:25	
SS03	2006214-04	Solid	06/29/20 14:45	06/29/20 16:25	

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Debbie Zufelt, Reports Manager

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07/21/20 12:02

GAL originally ran and reported Organics on sample SS03 (2006-214-04), which was supposed to be on hold instead of sample SS02 (2006-214-03). Organics for SS02 was added and is reported in the following report. This RE report is revised and replaces the original report dated 07/09/20.

Green Analytical Laboratories

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Debbie Zufelt, Reports Manager

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Project Name / Number: State CB #1
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Reported:
07/21/20 12:02

WS01

2006214-01 (Surface Water)

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

Alkalinity, Bicarbonate as CaCO ₃ *	4400	10.0	7.16	mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Carbonate as CaCO ₃ *	900	10.0		mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0		mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Total as CaCO ₃ *	5300	10.0	7.16	mg/L	10	07/08/20 13:55	2320 B		VJW
Chloride*	3100	250	22.1	mg/L	250	07/07/20 01:20	EPA300.0		AES
Conductivity*	17300	5.00		umho/cm @ 25.0°C	1	06/30/20 13:45	2510 B		VJW
pH*	8.49			pH Units	1	06/30/20 13:45	EPA150.1		VJW
Resistivity	57.8			ohm/cm	1	06/30/20 13:45	2510 B		VJW
Total Dissolved Solids*	10500	20.0		mg/L	2	07/01/20 11:30	EPA160.1		JDA
Specific Gravity	1.010	0.8000		No Unit	1	07/02/20 11:35	ASTM D1429-03		VJW
Sulfate*	<250	250	38.1	mg/L	250	07/07/20 01:20	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Iron*	12.7	1.25	0.407	mg/L	25	07/07/20 15:35	EPA200.7		AES
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Dissolved Metals by ICP

Barium*	8.99	0.500	0.039	mg/L	25	07/08/20 12:26	EPA200.7		AES
Calcium*	20.7	2.50	0.415	mg/L	25	07/08/20 12:26	EPA200.7		AES
Hardness as CaCO ₃	121	16.5	3.45	mg/L	25	07/08/20 12:26	2340 B		AES
Iron*	<1.25	1.25	0.460	mg/L	25	07/08/20 12:26	EPA200.7		AES
Magnesium*	16.7	2.50	0.587	mg/L	25	07/08/20 12:26	EPA200.7		AES
Manganese*	<0.500	0.500	0.039	mg/L	25	07/08/20 12:26	EPA200.7		AES
Potassium*	<25.0	25.0	3.25	mg/L	25	07/08/20 12:25	EPA200.7		AES
Sodium*	4160	25.0	2.51	mg/L	25	07/08/20 12:25	EPA200.7		AES
Strontium*	10.7	2.50	0.104	mg/L	25	07/08/20 12:25	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

								PH
Benzene*	<0.001	0.001	0.00006	mg/L	1	07/07/20 19:18	8021B	MS
Toluene*	<0.001	0.001	0.0003	mg/L	1	07/07/20 19:18	8021B	MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	07/07/20 19:18	8021B	MS
Total Xylenes*	<0.003	0.003	0.0003	mg/L	1	07/07/20 19:18	8021B	MS
Total BTEX	<0.006	0.006	0.0005	mg/L	1	07/07/20 19:18	8021B	MS

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 58.2-133 07/07/20 19:18 8021B MS

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Debbie Zufelt, Reports Manager

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Reported:
07/21/20 12:02

WS01

2006214-01 (Surface Water)

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

Petroleum Hydrocarbons by GC FID

PH

GRO C6-C10*	<1.00	1.00	0.0744	mg/L	0.1	07/07/20 21:24	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.390	mg/L	0.1	07/07/20 21:24	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.390	mg/L	0.1	07/07/20 21:24	8015B		MS
Surrogate: 1-Chlorooctane			86.5 %	34.5-148		07/07/20 21:24	8015B		MS
Surrogate: 1-Chlorooctadecane			92.2 %	46.4-149		07/07/20 21:24	8015B		MS
Cation/Anion Balance	-2.51								

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Project Manager: Steve Moskal

Reported:
07/21/20 12:02

SS01

2006214-02 (Soil)

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

% Dry Solids	85.3			%	1	07/06/20 14:05	EPA160.3/1684		VJW
Saturated Paste Extraction									
Calcium	143	0.500	0.083	mg/L	5	07/07/20 12:43	EPA200.7		AES
Conductivity	4340			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	19.1	0.500	0.117	mg/L	5	07/07/20 12:43	EPA200.7		AES
pH	7.93			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	13.8			No Unit	1	07/07/20 12:43	Calculation		AES
Sodium	660	5.00	0.503	mg/L	5	07/07/20 12:43	EPA200.7		AES

Total Metals by ICP

Barium	470	5.00	0.318	mg/kg dry	100	07/07/20 13:35	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:35	6010B		AES
Chromium	12.3	5.00	0.416	mg/kg dry	100	07/07/20 13:35	6010B		AES
Copper	14.4	5.00	1.40	mg/kg dry	100	07/07/20 13:35	6010B		AES
Lead	11.9	10.0	0.661	mg/kg dry	100	07/07/20 13:35	6010B		AES
Nickel	9.98	5.00	0.507	mg/kg dry	100	07/07/20 13:35	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:34	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:35	6010B		AES
Zinc	46.9	10.0	2.60	mg/kg dry	100	07/07/20 13:35	6010B		AES

Total Metals by ICPMS

Arsenic	6.26	1.00	0.0807	mg/kg dry	1000	07/07/20 14:06	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0469	0.0469	0.0027	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:09	EPA200.7		AES
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Reported:
07/21/20 12:02

SS01

2006214-02 (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	07/02/20 05:18	8021B		ms
Toluene*	<0.050	0.050	0.004	mg/kg	50	07/02/20 05:18	8021B		ms
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	07/02/20 05:18	8021B		ms
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	07/02/20 05:18	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	07/02/20 05:18	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129 07/02/20 05:18 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	07/01/20 22:53	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	07/01/20 22:53	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	07/01/20 22:53	8015B		MS

Surrogate: 1-Chlorooctane 82.5 % 44.3-144 07/01/20 22:53 8015B MS

Surrogate: 1-Chlorooctadecane 88.8 % 42.2-156 07/01/20 22:53 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
2-Methylnaphthalene*	0.011	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C	J	MS
1-Methylnaphthalene	0.008	0.040	0.006	mg/kg	40	07/07/20 18:31	8270C	J	MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	07/07/20 18:31	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Fluoranthene*	0.004	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C	J	MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS

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Debbie Zufelt, Reports Manager

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Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

SS01

2006214-02 (Soil)

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

Polynuclear Aromatic Compounds by GC/MS

Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Surrogate: Nitrobenzene-d5			72.5 %	11.5-118		07/07/20 18:31	8270C		MS
Surrogate: 2-Fluorobiphenyl			79.7 %	19.4-118		07/07/20 18:31	8270C		MS
Surrogate: Terphenyl-d14			86.0 %	20.1-127		07/07/20 18:31	8270C		MS
Cation/Anion Balance	100.								

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Project Manager: Steve Moskal

Reported:
07/21/20 12:02

SS02**2006214-03 (Soil)**

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

% Dry Solids	87.6			%	1	07/06/20 14:05	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	53.0	0.500	0.083	mg/L	5	07/07/20 12:45	EPA200.7		AES
Conductivity	4640			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	10.0	0.500	0.117	mg/L	5	07/07/20 12:45	EPA200.7		AES
pH	8.35			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	28.2			No Unit	1	07/07/20 12:45	Calculation		AES
Sodium	854	5.00	0.503	mg/L	5	07/07/20 12:45	EPA200.7		AES

Total Metals by ICP

Barium	598	5.00	0.318	mg/kg dry	100	07/07/20 13:47	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:47	6010B		AES
Chromium	13.4	5.00	0.416	mg/kg dry	100	07/07/20 13:47	6010B		AES
Copper	18.5	5.00	1.40	mg/kg dry	100	07/07/20 13:47	6010B		AES
Lead	15.0	10.0	0.661	mg/kg dry	100	07/07/20 13:47	6010B		AES
Nickel	9.95	5.00	0.507	mg/kg dry	100	07/07/20 13:47	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:47	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:47	6010B		AES
Zinc	42.1	10.0	2.60	mg/kg dry	100	07/07/20 13:47	6010B		AES

Total Metals by ICPMS

Arsenic	3.94	1.00	0.0807	mg/kg dry	1000	07/07/20 14:10	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0457	0.0457	0.0026	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:11	EPA200.7		AES
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Debbie Zufelt, Reports Manager

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Reported:
07/21/20 12:02

SS02

2006214-03 (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	07/10/20 09:54	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	07/10/20 09:54	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	07/10/20 09:54	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	07/10/20 09:54	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	07/10/20 09:54	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129 07/10/20 09:54 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	07/10/20 11:55	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	07/10/20 11:55	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	07/10/20 11:55	8015B		MS

Surrogate: 1-Chlorooctane 88.4 % 44.3-144 07/10/20 11:55 8015B MS

Surrogate: 1-Chlorooctadecane 92.4 % 42.2-156 07/10/20 11:55 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
2-Methylnaphthalene*	0.003	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	07/15/20 20:35	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Phenanthrene*	0.012	0.040	0.005	mg/kg	40	07/15/20 20:35	8270C	J	MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C	QR-03	MS
Fluoranthene*	0.039	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Pyrene*	0.040	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Benzo[a]anthracene*	0.031	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Chrysene*	0.035	0.040	0.0008	mg/kg	40	07/15/20 20:35	8270C	J	MS
Benzo[b]fluoranthene*	0.031	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Benzo[k]fluoranthene*	0.027	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J, QM-07, QR-03	MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C	QR-03	MS
Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

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Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

SS02

2006214-03 (Soil)

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

Polynuclear Aromatic Compounds by GC/MS

Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
Surrogate: Nitrobenzene-d5			61.0 %	11.5-118		07/15/20 20:35	8270C		MS
Surrogate: 2-Fluorobiphenyl			68.9 %	19.4-118		07/15/20 20:35	8270C		MS
Surrogate: Terphenyl-d14			87.0 %	20.1-127		07/15/20 20:35	8270C		MS
Cation/Anion Balance	100.								

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Project Manager: Steve Moskal

Reported:
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SS03**2006214-04 (Soil)**

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

% Dry Solids	87.1			%	1	07/06/20 14:05	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	120	1.00	0.166	mg/L	10	07/07/20 12:48	EPA200.7		AES
Conductivity	8620			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	48.2	1.00	0.235	mg/L	10	07/07/20 12:48	EPA200.7		AES
pH	8.71			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	43.9			No Unit	1	07/07/20 12:48	Calculation		AES
Sodium	2250	10.0	1.01	mg/L	10	07/07/20 12:48	EPA200.7		AES

Total Metals by ICP

Barium	251	5.00	0.318	mg/kg dry	100	07/07/20 13:51	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:51	6010B		AES
Chromium	8.74	5.00	0.416	mg/kg dry	100	07/07/20 13:51	6010B		AES
Copper	13.6	5.00	1.40	mg/kg dry	100	07/07/20 13:51	6010B		AES
Lead	12.2	10.0	0.661	mg/kg dry	100	07/07/20 13:51	6010B		AES
Nickel	9.60	5.00	0.507	mg/kg dry	100	07/07/20 13:51	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:51	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:51	6010B		AES
Zinc	57.8	10.0	2.60	mg/kg dry	100	07/07/20 13:51	6010B		AES

Total Metals by ICPMS

Arsenic	2.42	1.00	0.0807	mg/kg dry	1000	07/07/20 14:20	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0459	0.0459	0.0027	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:15	EPA200.7		AES
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Cation/Anion Balance	100.
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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
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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 B201175 - General Prep - Wet Chem

Blank (B201175-BLK1)

Prepared & Analyzed: 06/30/20

Total Dissolved Solids	ND	10.0	mg/L
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Duplicate (B201175-DUP1)

Source: 2006215-01

Prepared & Analyzed: 06/30/20

Total Dissolved Solids	995	10.0	mg/L	1000	1.00	20
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Reference (B201175-SRM1)

Prepared & Analyzed: 06/30/20

Total Dissolved Solids	525	10.0	mg/L	570	92.1	85-115
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Batch B201183 - General Prep - Wet Chem

Duplicate (B201183-DUP2)

Source: 2006217-01

Prepared & Analyzed: 06/30/20

Conductivity	8400	5.00	umho/cm @ 25.0°C	8360	0.477	20
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Reference (B201183-SRM1)

Prepared & Analyzed: 06/30/20

Conductivity	499	5.00	umho/cm @ 25.0°C	488	102	90-110
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Batch B201186 - General Prep - Wet Chem

Blank (B201186-BLK1)

Prepared: 07/01/20 Analyzed: 07/06/20

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

LCS (B201186-BS1)

Prepared: 07/01/20 Analyzed: 07/06/20

Chloride	24.5	1.00	mg/L	25.0	98.2	90-110
Sulfate	25.0	1.00	mg/L	25.0	100	90-110

LCS Dup (B201186-BSD1)

Prepared: 07/01/20 Analyzed: 07/06/20

Chloride	25.0	1.00	mg/L	25.0	100	90-110	2.02	20
Sulfate	25.0	1.00	mg/L	25.0	100	90-110	0.0679	20

Batch B201201 - General Prep - Wet Chem

Duplicate (B201201-DUP1)

Source: 2006214-01

Prepared & Analyzed: 07/02/20

Specific Gravity	1.010	0.8000	No Unit	1.010	0.00	20
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Batch B201204 - General Prep - Wet Chem

Blank (B201204-BLK1)

Prepared: 07/02/20 Analyzed: 07/08/20

Alkalinity, Total as CaCO3	ND	10.0	mg/L
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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project Manager: Steve Moskal

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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch B201204 - General Prep - Wet Chem (Continued)

LCS (B201204-BS1)

Prepared: 07/02/20 Analyzed: 07/08/20

Alkalinity, Total as CaCO ₃	100	10.0	mg/L	100	100	85-115			
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LCS Dup (B201204-BSD1)

Prepared: 07/02/20 Analyzed: 07/08/20

Alkalinity, Total as CaCO ₃	101	10.0	mg/L	100	101	85-115	0.995	20	
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Batch B201205 - General Prep - Wet Chem

Duplicate (B201205-DUP2)

Source: 2006217-01

Prepared & Analyzed: 06/30/20

pH	8.04		pH Units	8.00			0.499	20	
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Reference (B201205-SRM1)

Prepared & Analyzed: 06/30/20

pH	7.04		pH Units	7.00	101	98.5-101.4			
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Batch B201216 - General Prep - Wet Chem

Duplicate (B201216-DUP1)

Source: 2007016-04

Prepared & Analyzed: 07/06/20

% Dry Solids	85.8		%	85.3			0.579	20	
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Project Manager: Steve Moskal

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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 B201211 - Paste Extract

Blank (B201211-BLK1)

Prepared: 07/02/20 Analyzed: 07/07/20

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

Duplicate (B201211-DUP1)

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/07/20

Calcium	18.8	0.100	mg/L		19.0			0.936	20	
Magnesium	3.72	0.100	mg/L		3.72			0.212	20	
SAR	6.18		No Unit		6.04			2.29	20	
Sodium	112	1.00	mg/L		110			1.78	20	

Batch B201212 - Paste Extract

Duplicate (B201212-DUP1)

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/06/20

pH	7.69		pH Units		7.59			1.31	20	
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Batch B201213 - Paste Extract

Duplicate (B201213-DUP1)

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/06/20

Conductivity	594		umho/cm @ 25.0°C		572			3.77	20	
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Project Manager: Steve Moskal

Reported:
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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 B201237 - EPA 3050

Blank (B201237-BLK1)

Prepared & Analyzed: 07/07/20

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 (B201237-BS1)

Prepared & Analyzed: 07/07/20

Barium	185	5.00	mg/kg dry	200	92.5	80-120
Cadmium	172	5.00	mg/kg dry	200	86.1	80-120
Chromium	186	5.00	mg/kg dry	200	92.8	80-120
Copper	389	5.00	mg/kg dry	400	97.3	80-120
Lead	179	10.0	mg/kg dry	200	89.6	80-120
Nickel	181	5.00	mg/kg dry	200	90.3	80-120
Selenium	757	20.0	mg/kg dry	800	94.6	80-120
Silver	9.27	1.00	mg/kg dry	10.0	92.7	80-120
Zinc	171	10.0	mg/kg dry	200	85.6	80-120

LCS Dup (B201237-BSD1)

Prepared & Analyzed: 07/07/20

Barium	186	5.00	mg/kg dry	200	92.9	80-120	0.382	20
Cadmium	173	5.00	mg/kg dry	200	86.5	80-120	0.450	20
Chromium	186	5.00	mg/kg dry	200	93.1	80-120	0.323	20
Copper	388	5.00	mg/kg dry	400	97.1	80-120	0.224	20
Lead	178	10.0	mg/kg dry	200	88.8	80-120	0.981	20
Nickel	179	5.00	mg/kg dry	200	89.6	80-120	0.831	20
Selenium	742	20.0	mg/kg dry	800	92.7	80-120	2.07	20
Silver	9.18	1.00	mg/kg dry	10.0	91.8	80-120	0.915	20
Zinc	169	10.0	mg/kg dry	200	84.6	80-120	1.07	20

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project Manager: Steve Moskal

Reported:
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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 B201226 - Total Rec. 200.7/200.8/200.2

Blank (B201226-BLK1)

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	ND	0.050	mg/L							
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LCS (B201226-BS1)

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	3.83	0.050	mg/L	4.00		95.9	85-115			
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LCS Dup (B201226-BSD1)

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	3.84	0.050	mg/L	4.00		96.0	85-115	0.175	20	
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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

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 B201230 - Diss. 200.7/200.8

Blank (B201230-BLK1)

Prepared: 07/06/20 Analyzed: 07/08/20

Barium	ND	0.020	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
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 (B201230-BS1)

Prepared: 07/06/20 Analyzed: 07/08/20

Barium	2.42	0.020	mg/L	2.50	96.7	85-115
Calcium	4.92	0.100	mg/L	5.00	98.3	85-115
Iron	4.62	0.050	mg/L	5.00	92.4	85-115
Magnesium	25.3	0.100	mg/L	25.0	101	85-115
Manganese	2.41	0.020	mg/L	2.50	96.5	85-115
Potassium	10.2	1.00	mg/L	10.0	102	85-115
Sodium	4.14	1.00	mg/L	4.05	102	85-115
Strontium	4.97	0.100	mg/L	5.00	99.3	85-115

LCS Dup (B201230-BSD1)

Prepared: 07/06/20 Analyzed: 07/08/20

Barium	2.44	0.020	mg/L	2.50	97.8	85-115	1.09	20
Calcium	4.87	0.100	mg/L	5.00	97.3	85-115	1.00	20
Iron	4.57	0.050	mg/L	5.00	91.5	85-115	1.05	20
Magnesium	25.1	0.100	mg/L	25.0	101	85-115	0.728	20
Manganese	2.40	0.020	mg/L	2.50	96.1	85-115	0.423	20
Potassium	10.0	1.00	mg/L	10.0	100	85-115	1.44	20
Sodium	4.07	1.00	mg/L	4.05	100	85-115	1.85	20
Strontium	4.89	0.100	mg/L	5.00	97.8	85-115	1.57	20

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project Manager: Steve Moskal

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07/21/20 12:02

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 B201238 - EPA 3050M

Blank (B201238-BLK1)

Prepared & Analyzed: 07/07/20

Arsenic	ND	0.100	mg/kg dry							
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LCS (B201238-BS1)

Prepared & Analyzed: 07/07/20

Arsenic	4.76	0.100	mg/kg dry	5.00		95.2	80-120			
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LCS Dup (B201238-BSD1)

Prepared & Analyzed: 07/07/20

Arsenic	4.32	0.100	mg/kg dry	5.00		86.4	80-120	9.73	20	
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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 B201214 - EPA 7471

Blank (B201214-BLK1)

Prepared: 07/06/20 Analyzed: 07/07/20

Mercury	ND	0.0002	mg/kg wet							
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LCS (B201214-BS1)

Prepared: 07/06/20 Analyzed: 07/07/20

Mercury	0.0045	0.0002	mg/kg wet	0.00500		90.6	85-115			
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LCS Dup (B201214-BSD1)

Prepared: 07/06/20 Analyzed: 07/07/20

Mercury	0.0054	0.0002	mg/kg wet	0.00500		107	85-115	17.1	20	
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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 B201215 - Hot Water Soluble Metals Extract

Blank (B201215-BLK1)

Prepared: 07/06/20 Analyzed: 07/07/20

Boron	ND	1.20	mg/L							
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Duplicate (B201215-DUP1)

Source: 2007016-04 Prepared: 07/06/20 Analyzed: 07/07/20

Boron	0.847	1.20	mg/L		0.928			9.18	200	
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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve MoskalReported:
07/21/20 12:02

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 0070110 - Volatiles

Blank (0070110-BLK1)

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	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 (0070110-BS1)

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	73.3-129			
Benzene	1.89	0.050	mg/kg	2.00		94.6	72.2-131			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	68.9-126			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Total Xylenes	6.03	0.150	mg/kg	6.00		101	71.4-125			

LCS Dup (0070110-BSD1)

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.3-129			
Benzene	1.96	0.050	mg/kg	2.00		97.9	72.2-131	3.46	14.6	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	68.9-126	2.72	18.9	
Toluene	2.09	0.050	mg/kg	2.00		105	71.7-126	3.49	17.4	
Total Xylenes	6.15	0.150	mg/kg	6.00		102	71.4-125	1.89	18.5	

Batch 0070608 - Volatiles

Blank (0070608-BLK1)

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0465		mg/L	0.0500		93.1	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 (0070608-BS1)

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/L	0.0500		96.1	58.2-133			
Benzene	0.020	0.001	mg/L	0.0200		102	84.9-114			
Ethylbenzene	0.020	0.001	mg/L	0.0200		101	76.2-120			
Toluene	0.020	0.001	mg/L	0.0200		99.6	76.9-116			
Total Xylenes	0.059	0.003	mg/L	0.0600		98.2	79.7-115			

LCS Dup (0070608-BSD1)

Prepared: 07/06/20 Analyzed: 07/07/20

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
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**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 0070608 - Volatiles (Continued)

LCS Dup (0070608-BS1) (Continued)

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/L	0.0500		95.9	58.2-133			
Benzene	0.020	0.001	mg/L	0.0200		102	84.9-114	0.00979	3.95	
Ethylbenzene	0.020	0.001	mg/L	0.0200		100	76.2-120	0.777	6.85	
Toluene	0.020	0.001	mg/L	0.0200		99.3	76.9-116	0.287	4.44	
Total Xylenes	0.058	0.003	mg/L	0.0600		97.5	79.7-115	0.700	4.01	

Batch 0070903 - Volatiles

Blank (0070903-BLK1)

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	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 (0070903-BS1)

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.9	73.3-129			
Benzene	1.85	0.050	mg/kg	2.00		92.6	72.2-131			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	68.9-126			
Toluene	1.86	0.050	mg/kg	2.00		93.1	71.7-126			
Total Xylenes	5.38	0.150	mg/kg	6.00		89.7	71.4-125			

LCS Dup (0070903-BS1)

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	73.3-129			
Benzene	1.94	0.050	mg/kg	2.00		97.0	72.2-131	4.67	14.6	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.3	68.9-126	4.91	18.9	
Toluene	1.95	0.050	mg/kg	2.00		97.6	71.7-126	4.79	17.4	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	4.90	18.5	

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

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 0070109 - General Prep - Organics

Blank (0070109-BLK1)

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	41.6		mg/kg	50.0		83.3	42.2-156			
Surrogate: 1-Chlorooctane	39.9		mg/kg	50.0		79.9	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 (0070109-BS1)

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.6	42.2-156			
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	44.3-144			
DRO >C10-C28	176	10.0	mg/kg	200		87.9	80-132			
GRO C6-C10	178	10.0	mg/kg	200		89.2	78.8-127			
Total TPH C6-C28	354	10.0	mg/kg	400		88.6	81.3-128			

LCS Dup (0070109-BSD1)

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.8	42.2-156			
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	44.3-144			
DRO >C10-C28	177	10.0	mg/kg	200		88.7	80-132	0.882	17.1	
GRO C6-C10	178	10.0	mg/kg	200		88.9	78.8-127	0.270	15.1	
Total TPH C6-C28	355	10.0	mg/kg	400		88.8	81.3-128	0.304	15	

Batch 0070708 - General Prep - Organics

Blank (0070708-BLK1)

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.38		mg/L	5.00		87.5	46.4-149			
Surrogate: 1-Chlorooctane	4.32		mg/L	5.00		86.3	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 (0070708-BS1)

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.77		mg/L	5.00		95.5	46.4-149			
Surrogate: 1-Chlorooctane	4.84		mg/L	5.00		96.8	34.5-148			
DRO >C10-C28	49.7	1.00	mg/L	50.0		99.5	81.3-121			
GRO C6-C10	44.6	1.00	mg/L	50.0		89.2	73.2-116			

LCS Dup (0070708-BSD1)

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.84		mg/L	5.00		96.7	46.4-149			
Surrogate: 1-Chlorooctane	4.90		mg/L	5.00		97.9	34.5-148			

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

**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 0070708 - General Prep - Organics (Continued)

LCS Dup (0070708-BSD1) (Continued)

Prepared & Analyzed: 07/07/20

DRO >C10-C28	50.2	1.00	mg/L	50.0		100	81.3-121	0.984	9.19	
GRO C6-C10	44.6	1.00	mg/L	50.0		89.2	73.2-116	0.0471	4.68	

Batch 0071004 - General Prep - Organics

Blank (0071004-BLK1)

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	42.2		mg/kg	50.0		84.4	42.2-156			
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.9	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 (0071004-BS1)

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.8	42.2-156			
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	44.3-144			
DRO >C10-C28	210	10.0	mg/kg	200		105	80-132			
GRO C6-C10	194	10.0	mg/kg	200		97.2	78.8-127			
Total TPH C6-C28	404	10.0	mg/kg	400		101	81.3-128			

LCS Dup (0071004-BSD1)

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		93.0	42.2-156			
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	44.3-144			
DRO >C10-C28	185	10.0	mg/kg	200		92.7	80-132	12.4	17.1	
GRO C6-C10	196	10.0	mg/kg	200		97.9	78.8-127	0.754	15.1	
Total TPH C6-C28	381	10.0	mg/kg	400		95.3	81.3-128	5.85	15	

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

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 0070610 - SW846-3510

Blank (0070610-BLK1)

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.60		mg/kg	2.00		80.2	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	1.58		mg/kg	2.00		78.9	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.74		mg/kg	2.00		87.1	20.1-127			

LCS (0070610-BS1)

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	0.296	0.040	mg/kg	0.400		74.0	41.5-115			
Surrogate: 2-Fluorobiphenyl	1.62		mg/kg	2.00		80.9	19.4-118			
2-Methylnaphthalene	0.289	0.040	mg/kg	0.400		72.3	41.3-115			
Acenaphthene	0.294	0.040	mg/kg	0.400		73.5	40.8-115			
Acenaphthylene	0.291	0.040	mg/kg	0.400		72.7	39.6-115			
Anthracene	0.289	0.040	mg/kg	0.400		72.1	41.6-116			
Benzo[a]anthracene	0.279	0.040	mg/kg	0.400		69.7	38.1-120			
Benzo[a]pyrene	0.279	0.040	mg/kg	0.400		69.8	43.2-122			
Benzo[b]fluoranthene	0.165	0.040	mg/kg	0.400		41.3	36-129			
Benzo[g,h,i]perylene	0.280	0.040	mg/kg	0.400		70.1	29.6-131			
Benzo[k]fluoranthene	0.281	0.040	mg/kg	0.400		70.3	40.9-123			
Carbazole	0.291	0.040	mg/kg	0.400		72.6	41.3-117			
Chrysene	0.283	0.040	mg/kg	0.400		70.7	39.4-118			
Dibenz[a,h]anthracene	0.280	0.040	mg/kg	0.400		70.0	37-123			
Fluoranthene	0.296	0.040	mg/kg	0.400		74.0	42.5-116			

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

Polynuclear 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 0070610 - SW846-3510 (Continued)

LCS (0070610-BS1) (Continued)

Prepared: 07/06/20 Analyzed: 07/07/20

Fluorene	0.298	0.040	mg/kg	0.400		74.4	40.8-115			
Indeno[1,2,3-cd]pyrene	0.279	0.040	mg/kg	0.400		69.8	40.5-121			
Naphthalene	0.294	0.040	mg/kg	0.400		73.4	37.2-118			
Surrogate: Nitrobenzene-d5	1.58		mg/kg	2.00		78.9	11.5-118			
Phenanthrene	0.294	0.040	mg/kg	0.400		73.4	41.6-117			
Pyrene	0.282	0.040	mg/kg	0.400		70.5	38.2-121			
Surrogate: Terphenyl-d14	1.56		mg/kg	2.00		78.2	20.1-127			

LCS Dup (0070610-BSD1)

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	0.297	0.040	mg/kg	0.400		74.1	41.5-115	0.196	5.67	
Surrogate: 2-Fluorobiphenyl	1.60		mg/kg	2.00		80.1	19.4-118			
2-Methylnaphthalene	0.294	0.040	mg/kg	0.400		73.5	41.3-115	1.69	5.43	
Acenaphthene	0.292	0.040	mg/kg	0.400		72.9	40.8-115	0.819	5.45	
Acenaphthylene	0.287	0.040	mg/kg	0.400		71.7	39.6-115	1.33	4.49	
Anthracene	0.292	0.040	mg/kg	0.400		72.9	41.6-116	1.05	3.74	
Benzo[a]anthracene	0.281	0.040	mg/kg	0.400		70.3	38.1-120	0.832	3.05	
Benzo[a]pyrene	0.276	0.040	mg/kg	0.400		69.1	43.2-122	1.12	3.42	
Benzo[b]fluoranthene	0.172	0.040	mg/kg	0.400		42.9	36-129	3.91	32.9	
Benzo[g,h,i]perylene	0.275	0.040	mg/kg	0.400		68.8	29.6-131	1.85	6.1	
Benzo[k]fluoranthene	0.280	0.040	mg/kg	0.400		69.9	40.9-123	0.589	6.97	
Carbazole	0.291	0.040	mg/kg	0.400		72.7	41.3-117	0.151	5.33	
Chrysene	0.282	0.040	mg/kg	0.400		70.4	39.4-118	0.429	2.77	
Dibenz[a,h]anthracene	0.274	0.040	mg/kg	0.400		68.4	37-123	2.23	5.52	
Fluoranthene	0.296	0.040	mg/kg	0.400		74.1	42.5-116	0.206	6.41	
Fluorene	0.298	0.040	mg/kg	0.400		74.5	40.8-115	0.188	5.01	
Indeno[1,2,3-cd]pyrene	0.277	0.040	mg/kg	0.400		69.2	40.5-121	0.845	4.92	
Naphthalene	0.295	0.040	mg/kg	0.400		73.8	37.2-118	0.431	4.51	
Surrogate: Nitrobenzene-d5	1.58		mg/kg	2.00		79.1	11.5-118			
Phenanthrene	0.291	0.040	mg/kg	0.400		72.8	41.6-117	0.804	4.53	
Pyrene	0.280	0.040	mg/kg	0.400		70.0	38.2-121	0.690	8.61	
Surrogate: Terphenyl-d14	1.56		mg/kg	2.00		78.1	20.1-127			

Batch 0071306 - SW846-3510

Blank (0071306-BLK1)

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.68		mg/kg	2.00		84.1	19.4-118			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

**Polynuclear 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 0071306 - SW846-3510 (Continued)

Blank (0071306-BLK1) (Continued)

Prepared: 07/13/20 Analyzed: 07/15/20

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	1.58		mg/kg	2.00		79.2	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.99		mg/kg	2.00		99.5	20.1-127			

LCS (0071306-BS1)

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	0.330	0.040	mg/kg	0.400		82.6	41.5-115			
Surrogate: 2-Fluorobiphenyl	1.64		mg/kg	2.00		82.2	19.4-118			
2-Methylnaphthalene	0.327	0.040	mg/kg	0.400		81.8	41.3-115			
Acenaphthene	0.325	0.040	mg/kg	0.400		81.2	40.8-115			
Acenaphthylene	0.329	0.040	mg/kg	0.400		82.4	39.6-115			
Anthracene	0.322	0.040	mg/kg	0.400		80.6	41.6-116			
Benzo[a]anthracene	0.365	0.040	mg/kg	0.400		91.2	38.1-120			
Benzo[a]pyrene	0.335	0.040	mg/kg	0.400		83.8	43.2-122			
Benzo[b]fluoranthene	0.382	0.040	mg/kg	0.400		95.6	36-129			
Benzo[g,h,i]perylene	0.320	0.040	mg/kg	0.400		80.1	29.6-131			
Benzo[k]fluoranthene	0.341	0.040	mg/kg	0.400		85.2	40.9-123			
Carbazole	0.320	0.040	mg/kg	0.400		80.0	41.3-117			
Chrysene	0.366	0.040	mg/kg	0.400		91.5	39.4-118			
Dibenz[a,h]anthracene	0.333	0.040	mg/kg	0.400		83.3	37-123			
Fluoranthene	0.330	0.040	mg/kg	0.400		82.6	42.5-116			
Fluorene	0.338	0.040	mg/kg	0.400		84.5	40.8-115			
Indeno[1,2,3-cd]pyrene	0.331	0.040	mg/kg	0.400		82.8	40.5-121			
Naphthalene	0.332	0.040	mg/kg	0.400		82.9	37.2-118			
Surrogate: Nitrobenzene-d5	1.54		mg/kg	2.00		77.1	11.5-118			

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Debbie Zufelt, Reports Manager

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1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

Polynuclear 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 0071306 - SW846-3510 (Continued)

LCS (0071306-BS1) (Continued)

Prepared: 07/13/20 Analyzed: 07/15/20

Phenanthrene	0.322	0.040	mg/kg	0.400		80.6	41.6-117			
Pyrene	0.364	0.040	mg/kg	0.400		91.1	38.2-121			
Surrogate: Terphenyl-d14	1.85		mg/kg	2.00		92.6	20.1-127			

LCS Dup (0071306-BSD1)

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	0.332	0.040	mg/kg	0.400		82.9	41.5-115	0.347	5.67	
Surrogate: 2-Fluorobiphenyl	1.65		mg/kg	2.00		82.3	19.4-118			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		82.0	41.3-115	0.171	5.43	
Acenaphthene	0.329	0.040	mg/kg	0.400		82.3	40.8-115	1.36	5.45	
Acenaphthylene	0.330	0.040	mg/kg	0.400		82.6	39.6-115	0.306	4.49	
Anthracene	0.326	0.040	mg/kg	0.400		81.5	41.6-116	1.11	3.74	
Benzo[a]anthracene	0.363	0.040	mg/kg	0.400		90.7	38.1-120	0.588	3.05	
Benzo[a]pyrene	0.332	0.040	mg/kg	0.400		83.0	43.2-122	0.974	3.42	
Benzo[b]fluoranthene	0.361	0.040	mg/kg	0.400		90.1	36-129	5.92	32.9	
Benzo[g,h,i]perylene	0.323	0.040	mg/kg	0.400		80.8	29.6-131	0.845	6.1	
Benzo[k]fluoranthene	0.339	0.040	mg/kg	0.400		84.8	40.9-123	0.427	6.97	
Carbazole	0.324	0.040	mg/kg	0.400		81.1	41.3-117	1.34	5.33	
Chrysene	0.366	0.040	mg/kg	0.400		91.4	39.4-118	0.0765	2.77	
Dibenz[a,h]anthracene	0.323	0.040	mg/kg	0.400		80.8	37-123	3.08	5.52	
Fluoranthene	0.330	0.040	mg/kg	0.400		82.6	42.5-116	0.00605	6.41	
Fluorene	0.336	0.040	mg/kg	0.400		83.9	40.8-115	0.647	5.01	
Indeno[1,2,3-cd]pyrene	0.324	0.040	mg/kg	0.400		80.9	40.5-121	2.34	4.92	
Naphthalene	0.334	0.040	mg/kg	0.400		83.6	37.2-118	0.868	4.51	
Surrogate: Nitrobenzene-d5	1.55		mg/kg	2.00		77.7	11.5-118			
Phenanthrene	0.326	0.040	mg/kg	0.400		81.5	41.6-117	1.11	4.53	
Pyrene	0.360	0.040	mg/kg	0.400		90.0	38.2-121	1.17	8.61	
Surrogate: Terphenyl-d14	1.85		mg/kg	2.00		92.7	20.1-127			

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1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: State CB #1
Project Manager: Steve Moskal

Reported:
07/21/20 12:02

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
PH	Insufficient preservative to reduce the sample pH to less than 2. Sample was analyzed within 14 days of sampling, but beyond the 7 days recommended for Benzene, Toluene, and Ethylbenzene.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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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