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20 March 2019

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

Enclosed are the results of analyses for samples received by the laboratory on 03/14/19 14:55. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you any any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



BP America
380 Airport Rd.
Durango CO, 81303

Project: Table 910 - less PAH, metals
Project Name / Number: Thomas Jacquez E #1
Project Manager: Steve Moskal

Reported:
03/20/19 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS 57	1903158-01	Solid	03/14/19 09:20	03/14/19 14:55	
SS 58	1903158-02	Solid	03/14/19 09:25	03/14/19 14:55	
SS 59	1903158-03	Solid	03/14/19 09:55	03/14/19 14:55	
SS 60	1903158-04	Solid	03/14/19 10:00	03/14/19 14:55	
SS 61	1903158-05	Solid	03/14/19 10:25	03/14/19 14:55	
SS 62	1903158-06	Solid	03/14/19 10:30	03/14/19 14:55	
SS 63	1903158-07	Solid	03/14/19 11:00	03/14/19 14:55	
SS 64	1903158-08	Solid	03/14/19 11:05	03/14/19 14:55	
SS 65	1903158-09	Solid	03/14/19 11:50	03/14/19 14:55	
SS 66	1903158-10	Solid	03/14/19 11:55	03/14/19 14:55	
SS 67	1903158-11	Solid	03/14/19 12:10	03/14/19 14:55	
SS 68	1903158-12	Solid	03/14/19 12:15	03/14/19 14:55	
SS 69	1903158-13	Solid	03/14/19 13:00	03/14/19 14:55	
SS 70	1903158-14	Solid	03/14/19 13:05	03/14/19 14:55	
SS 71	1903158-15	Solid	03/14/19 13:50	03/14/19 14:55	
SS 72	1903158-16	Solid	03/14/19 13:55	03/14/19 14:55	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 57

1903158-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	118	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	724			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	17.5	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.51			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.58			No Unit	1	03/20/19	Calculation		AES
Sodium	25.4	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 108 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 113 % 37.6-147 03/19/19 8015B MS

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Debbie Zufelt, Reports Manager

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SS 58

1903158-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	209	0.200	0.026	mg/L	2	03/20/19	EPA200.7		AES
Conductivity	1050			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	24.6	0.200	0.038	mg/L	2	03/20/19	EPA200.7		AES
pH	7.38			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.63			No Unit	1	03/20/19	Calculation		AES
Sodium	35.9	2.00	0.734	mg/L	2	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 99.9 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 104 % 37.6-147 03/19/19 8015B MS

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SS 59

1903158-03 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	185	0.200	0.026	mg/L	2	03/20/19	EPA200.7		AES
Conductivity	1050			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	26.7	0.200	0.038	mg/L	2	03/20/19	EPA200.7		AES
pH	7.40			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.48			No Unit	1	03/20/19	Calculation		AES
Sodium	26.5	2.00	0.734	mg/L	2	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 102 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 105 % 37.6-147 03/19/19 8015B MS

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SS 60

1903158-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	88.2	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	580			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	13.8	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.47			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.60			No Unit	1	03/20/19	Calculation		AES
Sodium	23.1	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 100 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 103 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 61

1903158-05 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	182	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	970			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	20.4	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.50			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.57			No Unit	1	03/20/19	Calculation		AES
Sodium	30.2	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 104 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 106 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 62

1903158-06 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	339	0.200	0.026	mg/L	2	03/20/19	EPA200.7		AES
Conductivity	1610			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	31.7	0.200	0.038	mg/L	2	03/20/19	EPA200.7		AES
pH	7.29			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.45			No Unit	1	03/20/19	Calculation		AES
Sodium	32.5	2.00	0.734	mg/L	2	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 95.6 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 100 % 37.6-147 03/19/19 8015B MS

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SS 63

1903158-07 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	100	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	624			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	14.5	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.50			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.53			No Unit	1	03/20/19	Calculation		AES
Sodium	21.4	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 101 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 105 % 37.6-147 03/19/19 8015B MS

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SS 64

1903158-08 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	207	0.200	0.026	mg/L	2	03/20/19	EPA200.7		AES
Conductivity	1100			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	25.1	0.200	0.038	mg/L	2	03/20/19	EPA200.7		AES
pH	7.44			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.56			No Unit	1	03/20/19	Calculation		AES
Sodium	32.3	2.00	0.734	mg/L	2	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 98.6 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 103 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 65

1903158-09 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	133	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	829			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	19.9	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.45			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.55			No Unit	1	03/20/19	Calculation		AES
Sodium	25.5	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 104 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 108 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 66

1903158-10 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	190	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	1020			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	23.4	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.41			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.47			No Unit	1	03/20/19	Calculation		AES
Sodium	25.7	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/19/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/19/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/19/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/19/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129 03/19/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 100 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 105 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 67

1903158-11 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	82.7	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	688			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	14.7	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.63			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.53			No Unit	1	03/20/19	Calculation		AES
Sodium	20.0	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/19/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/19/19	8015B		MS

Surrogate: 1-Chlorooctane 97.7 % 41-142 03/19/19 8015B MS

Surrogate: 1-Chlorooctadecane 102 % 37.6-147 03/19/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 68

1903158-12 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	70.1	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	550			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	12.1	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.60			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.54			No Unit	1	03/20/19	Calculation		AES
Sodium	18.6	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/20/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS

Surrogate: 1-Chlorooctane 103 % 41-142 03/20/19 8015B MS

Surrogate: 1-Chlorooctadecane 108 % 37.6-147 03/20/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 69

1903158-13 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	77.9	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	530			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	10.1	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.59			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.55			No Unit	1	03/20/19	Calculation		AES
Sodium	19.3	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/20/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS

Surrogate: 1-Chlorooctane 104 % 41-142 03/20/19 8015B MS

Surrogate: 1-Chlorooctadecane 110 % 37.6-147 03/20/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 70

1903158-14 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	142	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	852			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	18.4	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.56			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.44			No Unit	1	03/20/19	Calculation		AES
Sodium	20.8	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/20/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS

Surrogate: 1-Chlorooctane 101 % 41-142 03/20/19 8015B MS

Surrogate: 1-Chlorooctadecane 106 % 37.6-147 03/20/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 71

1903158-15 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	180	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	956			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	17.6	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.35			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.47			No Unit	1	03/20/19	Calculation		AES
Sodium	24.8	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/20/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS

Surrogate: 1-Chlorooctane 105 % 41-142 03/20/19 8015B MS

Surrogate: 1-Chlorooctadecane 113 % 37.6-147 03/20/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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SS 72

1903158-16 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Saturated Paste Extraction

Calcium	92.2	0.100	0.013	mg/L	1	03/20/19	EPA200.7		AES
Conductivity	590			umhos/cm	1	03/19/19	ASA#9 10-3.3		JDA
Magnesium	13.8	0.100	0.019	mg/L	1	03/20/19	EPA200.7		AES
pH	7.68			pH Units	1	03/19/19	ASA#9 12-2.6		JDA
SAR	0.30			No Unit	1	03/20/19	Calculation		AES
Sodium	11.8	1.00	0.367	mg/L	1	03/20/19	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Toluene*	<0.050	0.050	0.002	mg/kg	50	03/20/19	8021B		ms
Ethylbenzene*	<0.050	0.050	0.004	mg/kg	50	03/20/19	8021B		ms
Total Xylenes*	<0.150	0.150	0.010	mg/kg	50	03/20/19	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	03/20/19	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129 03/20/19 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	5.30	mg/kg	1	03/20/19	8015B		MS
DRO >C10-C28*	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	1.56	mg/kg	1	03/20/19	8015B		MS

Surrogate: 1-Chlorooctane 100 % 41-142 03/20/19 8015B MS

Surrogate: 1-Chlorooctadecane 106 % 37.6-147 03/20/19 8015B MS

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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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 B903165 - Paste Extract

Blank (B903165-BLK1)

Prepared: 03/19/19 Analyzed: 03/20/19

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
SAR	0.00		No Unit							
Sodium	ND	1.00	mg/L							

Duplicate (B903165-DUP1)

Source: 1903158-10 Prepared: 03/19/19 Analyzed: 03/20/19

Calcium	194	0.100	mg/L		190			1.80	20	
Magnesium	23.6	0.100	mg/L		23.4			0.812	20	
SAR	0.46		No Unit		0.47			2.15	20	
Sodium	25.6	1.00	mg/L		25.7			0.221	20	

Batch B903166 - Paste Extract

Duplicate (B903166-DUP1)

Source: 1903158-10 Prepared & Analyzed: 03/19/19

pH	7.41		pH Units		7.41			0.00	20	
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Batch B903167 - Paste Extract

Duplicate (B903167-DUP1)

Source: 1903158-10 Prepared & Analyzed: 03/19/19

Conductivity	1030		umhos/cm		1020			1.08	20	
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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9031913 - Volatiles

Blank (9031913-BLK1)

Prepared & Analyzed: 03/19/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0906		mg/kg	0.100		90.6	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 (9031913-BS1)

Prepared & Analyzed: 03/19/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0888		mg/kg	0.100		88.8	73.3-129			
Benzene	1.83	0.050	mg/kg	2.00		91.7	72.2-131			
Ethylbenzene	1.76	0.050	mg/kg	2.00		87.9	68.9-126			
Toluene	1.68	0.050	mg/kg	2.00		84.0	71.7-126			
Total Xylenes	5.39	0.150	mg/kg	6.00		89.8	71.4-125			

LCS Dup (9031913-BSD1)

Prepared & Analyzed: 03/19/19

Surrogate: 4-Bromofluorobenzene (PID)	0.0887		mg/kg	0.100		88.7	73.3-129			
Benzene	1.83	0.050	mg/kg	2.00		91.5	72.2-131	0.217	6.91	
Ethylbenzene	1.78	0.050	mg/kg	2.00		89.1	68.9-126	1.33	7.88	
Toluene	1.71	0.050	mg/kg	2.00		85.5	71.7-126	1.76	7.12	
Total Xylenes	5.37	0.150	mg/kg	6.00		89.6	71.4-125	0.271	7.46	

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BP America 380 Airport Rd. Durango CO, 81303	Project: Table 910 - less PAH, metals Project Name / Number: Thomas Jacquez E #1 Project Manager: Steve Moskal	Reported: 03/20/19 14:52
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Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9031904 - General Prep - Organics

Blank (9031904-BLK1)

Prepared & Analyzed: 03/19/19

Surrogate: 1-Chlorooctadecane	50.7		mg/kg	50.0		101	37.6-147			
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	41-142			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (9031904-BS1)

Prepared & Analyzed: 03/19/19

Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	37.6-147			
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	41-142			
DRO >C10-C28	169	10.0	mg/kg	200		84.7	72.9-138			
GRO C6-C10	192	10.0	mg/kg	200		96.1	76.5-133			
Total TPH C6-C28	362	10.0	mg/kg	400		90.4	78-132			

LCS Dup (9031904-BSD1)

Prepared & Analyzed: 03/19/19

Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	37.6-147			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	41-142			
DRO >C10-C28	191	10.0	mg/kg	200		95.7	72.9-138	12.1	20.6	
GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	4.74	20.6	
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	78-132	8.28	18	

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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Debbie Zufelt

Debbie Zufelt, Reports Manager

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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 7

Company Name: BP America Production Co.

Project Manager: Steve Moskal

Address: 1199 Main Ave Suite 101

City: Durango State: CO Zip: 81301

Phone #: (505) 330 9179 Email: steven.moskal@bpx.com

Additional Report To:

Project Name: Thomas Jacquez E #1

Project Number:

Sampler Name (Print): Emma Millar

FOR LAB USE ONLY

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)						# of containers						ANALYSIS REQUEST		
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:			
158																		
1903758-01	SS57	3/14/19	0920					X		3								X
02	SS58	3/14/19	0925					X		3								X
03	SS59	3/14/19	0955					X		3								X
04	SS60	3/14/19	1000					X		3								X
05	SS61	3/14/19	1025					X		3								X
06	SS62	3/14/19	1030					X		3								X
07	SS63 ^{em}	3/14/19	1100					X		3								X
08	SS64	3/14/19	1105					X		3								X
09	SS65	3/14/19	1150					X		3								X
10	SS67 ^{em} SS66	3/14/19	1155					X		3								X

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 3/14/19 Time: 1455 Received By: [Signature] Temperature at receipt: 42/45C CHECKED BY: [Signature]

Relinquished By: [Signature] Date: [] Time: [] Received By: []

Relinquished By: [Signature] Date: [] Time: [] Received By: []

Delivered By: (Circle One) UPS - FedEx - Kangaroo - Other: []

Report to State? (Circle) Yes No

RUSH ASAP

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.

All samples will be analyzed for BTEX, TPH, SAR, pH, and EC.