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19 December 2018

Steve Moskal
BP America
380 Airport Rd.
Durango, CO 81303
RE: API

Enclosed are the results of analyses for samples received by the laboratory on 12/07/18 09:10. 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". The signature is written in a cursive, flowing style.

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: API
Project Name / Number: Richardson G2
Project Manager: Steve Moskal

Reported:
12/19/18 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WS01	1812061-01	Water	12/06/18 16:50	12/07/18 09:10	
WS02	1812061-02	Water	12/06/18 17:00	12/07/18 09:10	

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BP America 380 Airport Rd. Durango CO, 81303	Project: API Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/19/18 15:57
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WS01

1812061-01 (Water)

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

Alkalinity, Bicarbonate as CaCO3*	780	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Carbonate as CaCO3*	<10.0	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Total as CaCO3*	780	10.0		mg/L	10	12/17/18	2320 B		JDA
Chloride*	84.5	2.00	0.205	mg/L	2	12/13/18	EPA300.0		LLG
Conductivity*	2000	10.0		uS/cm	1	12/07/18	2510 B		JDA
pH*	7.88			pH Units	1	12/07/18	EPA150.1		JDA
Resistivity	499			ohm/cm	1	12/12/18	2510 B		JDA
Total Dissolved Solids*	1160	10.0		mg/L	1	12/12/18	EPA160.1		JDA
Specific Gravity	1.003	0.8000		No Unit	1	12/12/18	ASTM D1429-03		JDA
Sulfate*	<2.00	2.00	0.426	mg/L	2	12/13/18	EPA300.0		LLG

Total Recoverable Metals by ICP (E200.7)

Iron*	4.34	0.050	0.017	mg/L	1	12/13/18	EPA200.7		AES
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Dissolved Metals by ICP

Hardness	49.2	1.32	0.219	mg/L	2	12/11/18	2340 B		AES
Barium*	0.491	0.040	0.004	mg/L	2	12/11/18	EPA200.7		AES
Calcium*	16.0	0.200	0.026	mg/L	2	12/11/18	EPA200.7		AES
Iron*	<0.100	0.100	0.055	mg/L	2	12/11/18	EPA200.7		AES
Magnesium*	2.24	0.200	0.038	mg/L	2	12/11/18	EPA200.7		AES
Manganese*	<0.040	0.040	0.005	mg/L	2	12/11/18	EPA200.7		AES
Potassium*	3.67	2.00	0.191	mg/L	2	12/11/18	EPA200.7		AES
Sodium*	421	2.00	0.734	mg/L	2	12/11/18	EPA200.7		AES
Strontium*	0.427	0.200	0.006	mg/L	2	12/11/18	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001	0.001	0.00007	mg/L	1	12/18/18	8021B		ms
Toluene*	<0.001	0.001	0.00005	mg/L	1	12/18/18	8021B		ms
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	12/18/18	8021B		ms
Total Xylenes*	<0.003	0.003	0.0002	mg/L	1	12/18/18	8021B		ms
Total BTEX	<0.006	0.006	0.0005	mg/L	1	12/18/18	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 103 % 81.3-128 12/18/18 8021B ms

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WS01

1812061-01 (Water)

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

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0601	mg/L	0.1	12/17/18	8015B		MS
DRO >C10-C28*	3.79	1.00	0.164	mg/L	0.1	12/17/18	8015B		MS
EXT DRO >C28-C36	1.01	1.00	0.164	mg/L	0.1	12/17/18	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			93.7 %	37.1-138		12/17/18	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			114 %	44.6-151		12/17/18	8015B		MS
Cation/Anion Balance	3.92								

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WS02

1812061-02 (Water)

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

Alkalinity, Bicarbonate as CaCO3*	800	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Carbonate as CaCO3*	100	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	12/17/18	2320 B		JDA
Alkalinity, Total as CaCO3*	900	10.0		mg/L	10	12/17/18	2320 B		JDA
Chloride*	97.5	2.00	0.205	mg/L	2	12/14/18	EPA300.0		LLG
Conductivity*	1980	10.0		uS/cm	1	12/07/18	2510 B		JDA
pH*	8.36			pH Units	1	12/07/18	EPA150.1		JDA
Resistivity	506			ohm/cm	1	12/12/18	2510 B		JDA
Total Dissolved Solids*	1240	10.0		mg/L	1	12/12/18	EPA160.1		JDA
Specific Gravity	1.002	0.8000		No Unit	1	12/12/18	ASTM D1429-03		JDA
Sulfate*	<2.00	2.00	0.426	mg/L	2	12/14/18	EPA300.0		LLG

Total Recoverable Metals by ICP (E200.7)

Iron*	11.7	0.050	0.017	mg/L	1	12/13/18	EPA200.7		AES
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Dissolved Metals by ICP

Hardness	54.1	1.32	0.219	mg/L	2	12/11/18	2340 B		AES
Barium*	0.208	0.040	0.004	mg/L	2	12/11/18	EPA200.7		AES
Calcium*	17.6	0.200	0.026	mg/L	2	12/11/18	EPA200.7		AES
Iron*	0.218	0.100	0.055	mg/L	2	12/11/18	EPA200.7		AES
Magnesium*	2.45	0.200	0.038	mg/L	2	12/11/18	EPA200.7		AES
Manganese*	<0.040	0.040	0.005	mg/L	2	12/11/18	EPA200.7		AES
Potassium*	4.47	2.00	0.191	mg/L	2	12/11/18	EPA200.7		AES
Sodium*	424	2.00	0.734	mg/L	2	12/11/18	EPA200.7		AES
Strontium*	0.262	0.200	0.006	mg/L	2	12/11/18	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001	0.001	0.00007	mg/L	1	12/18/18	8021B		ms
Toluene*	<0.001	0.001	0.00005	mg/L	1	12/18/18	8021B		ms
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	12/18/18	8021B		ms
Total Xylenes*	<0.003	0.003	0.0002	mg/L	1	12/18/18	8021B		ms
Total BTEX	<0.006	0.006	0.0005	mg/L	1	12/18/18	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 103 % 81.3-128 12/18/18 8021B ms

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WS02

1812061-02 (Water)

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

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0601	mg/L	0.1	12/17/18	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.164	mg/L	0.1	12/17/18	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.164	mg/L	0.1	12/17/18	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			101 %	37.1-138		12/17/18	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			119 %	44.6-151		12/17/18	8015B		MS
Cation/Anion Balance	-2.26								

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BP America 380 Airport Rd. Durango CO, 81303	Project: API Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/19/18 15:57
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B812043 - General Prep - Wet Chem										
Duplicate (B812043-DUP1)		Source: 1812031-01		Prepared & Analyzed: 12/07/18						
Conductivity	710	10.0	uS/cm		707			0.423	20	
Reference (B812043-SRM1)		Prepared & Analyzed: 12/07/18								
Conductivity	503	10.0	uS/cm	491		102	90-110.1			
Batch B812044 - General Prep - Wet Chem										
Duplicate (B812044-DUP2)		Source: 1812046-03		Prepared & Analyzed: 12/07/18						
pH	7.29		pH Units		7.28			0.137	20	
Reference (B812044-SRM1)		Prepared & Analyzed: 12/07/18								
pH	9.08		pH Units	9.13		99.5	97.8-102.2			
Batch B812065 - General Prep - Wet Chem										
Blank (B812065-BLK1)		Prepared: 12/11/18 Analyzed: 12/12/18								
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B812065-BS1)		Prepared: 12/11/18 Analyzed: 12/13/18								
Chloride	23.5	1.00	mg/L	25.0		94.0	90-110			
Sulfate	22.5	1.00	mg/L	25.0		90.0	90-110			
LCS Dup (B812065-BSD1)		Prepared: 12/11/18 Analyzed: 12/12/18								
Chloride	23.7	1.00	mg/L	25.0		94.7	90-110	0.750	20	
Sulfate	24.2	1.00	mg/L	25.0		96.8	90-110	7.29	20	
Batch B812070 - General Prep - Wet Chem										
Duplicate (B812070-DUP1)		Source: 1812061-02		Prepared & Analyzed: 12/12/18						
Specific Gravity	1.002	0.8000	No Unit		1.002			0.00	20	
Batch B812072 - General Prep - Wet Chem										
Blank (B812072-BLK1)		Prepared & Analyzed: 12/12/18								
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (B812072-DUP1)		Source: 1812034-01		Prepared & Analyzed: 12/12/18						
Total Dissolved Solids	120	10.0	mg/L		125			4.05	20	
Reference (B812072-SRM1)		Prepared & Analyzed: 12/12/18								

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BP America 380 Airport Rd. Durango CO, 81303	Project: API Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/19/18 15:57
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**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812072 - General Prep - Wet Chem (Continued)

Reference (B812072-SRM1) (Continued)

Prepared & Analyzed: 12/12/18

Total Dissolved Solids	350	10.0	mg/L	380		92.1	85-115			
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Batch B812090 - General Prep - Wet Chem

Blank (B812090-BLK1)

Prepared: 12/13/18 Analyzed: 12/14/18

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

LCS (B812090-BS1)

Prepared: 12/13/18 Analyzed: 12/14/18

Chloride	23.6	1.00	mg/L	25.0		94.5	90-110			
Sulfate	23.7	1.00	mg/L	25.0		95.0	90-110			

LCS Dup (B812090-BSD1)

Prepared: 12/13/18 Analyzed: 12/14/18

Chloride	23.9	1.00	mg/L	25.0		95.4	90-110	1.00	20	
Sulfate	24.1	1.00	mg/L	25.0		96.4	90-110	1.47	20	

Batch B812110 - General Prep - Wet Chem

Blank (B812110-BLK1)

Prepared & Analyzed: 12/17/18

Alkalinity, Total as CaCO3	ND	10.0	mg/L							
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LCS (B812110-BS1)

Prepared & Analyzed: 12/17/18

Alkalinity, Total as CaCO3	94.0	10.0	mg/L	100		94.0	85-115			
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LCS Dup (B812110-BSD1)

Prepared & Analyzed: 12/17/18

Alkalinity, Total as CaCO3	100	10.0	mg/L	100		100	85-115	6.19	20	
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Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812068 - Total Rec. 200.7/200.8/200.2

Blank (B812068-BLK1)

Prepared: 12/11/18 Analyzed: 12/13/18

Iron	ND	0.050	mg/L							
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LCS (B812068-BS1)

Prepared: 12/11/18 Analyzed: 12/13/18

Iron	4.10	0.050	mg/L	4.00		103	85-115			
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LCS Dup (B812068-BSD1)

Prepared: 12/11/18 Analyzed: 12/13/18

Iron	4.09	0.050	mg/L	4.00		102	85-115	0.237	20	
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Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B812066 - Diss. 200.7/200.8

Blank (B812066-BLK1)

Prepared & Analyzed: 12/11/18

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 (B812066-BS1)

Prepared & Analyzed: 12/11/18

Barium	2.39	0.020	mg/L	2.50		95.7	85-115			
Calcium	4.78	0.100	mg/L	5.00		95.6	85-115			
Iron	4.74	0.050	mg/L	5.00		94.8	85-115			
Magnesium	23.9	0.100	mg/L	25.0		95.5	85-115			
Manganese	2.42	0.020	mg/L	2.50		96.8	85-115			
Potassium	9.14	1.00	mg/L	10.0		91.4	85-115			
Sodium	3.96	1.00	mg/L	4.05		97.9	85-115			
Strontium	4.93	0.100	mg/L	5.00		98.5	85-115			

LCS Dup (B812066-BSD1)

Prepared & Analyzed: 12/11/18

Barium	2.45	0.020	mg/L	2.50		97.9	85-115	2.30	20	
Calcium	4.93	0.100	mg/L	5.00		98.6	85-115	3.05	20	
Iron	4.86	0.050	mg/L	5.00		97.2	85-115	2.59	20	
Magnesium	24.5	0.100	mg/L	25.0		98.0	85-115	2.55	20	
Manganese	2.48	0.020	mg/L	2.50		99.4	85-115	2.60	20	
Potassium	9.43	1.00	mg/L	10.0		94.3	85-115	3.08	20	
Sodium	3.99	1.00	mg/L	4.05		98.5	85-115	0.581	20	
Strontium	4.95	0.100	mg/L	5.00		99.1	85-115	0.517	20	

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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8121709 - Volatiles

Blank (8121709-BLK1)

Prepared: 12/17/18 Analyzed: 12/18/18

Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/L	0.100		102	81.3-128			
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 (8121709-BS1)

Prepared: 12/17/18 Analyzed: 12/18/18

Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/L	0.100		101	81.3-128			
Benzene	0.020	0.001	mg/L	0.0200		101	86.6-118			
Ethylbenzene	0.020	0.001	mg/L	0.0200		99.2	83.9-122			
Toluene	0.020	0.001	mg/L	0.0200		98.7	84.5-122			
Total Xylenes	0.062	0.003	mg/L	0.0600		103	81.8-124			

LCS Dup (8121709-BSD1)

Prepared: 12/17/18 Analyzed: 12/18/18

Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/L	0.100		101	81.3-128			
Benzene	0.020	0.001	mg/L	0.0200		102	86.6-118	0.370	7.71	
Ethylbenzene	0.020	0.001	mg/L	0.0200		98.8	83.9-122	0.409	11.8	
Toluene	0.020	0.001	mg/L	0.0200		99.4	84.5-122	0.681	8.86	
Total Xylenes	0.061	0.003	mg/L	0.0600		102	81.8-124	0.709	11.9	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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BP America 380 Airport Rd. Durango CO, 81303	Project: API Project Name / Number: Richardson G2 Project Manager: Steve Moskal	Reported: 12/19/18 15:57
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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 8121704 - General Prep - Organics

Blank (8121704-BLK1)

Prepared & Analyzed: 12/17/18

Surrogate: 1-Chlorooctadecane	5.54		mg/L	5.00		111	44.6-151			
Surrogate: 1-Chlorooctane	4.68		mg/L	5.00		93.7	37.1-138			
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 (8121704-BS1)

Prepared & Analyzed: 12/17/18

Surrogate: 1-Chlorooctadecane	5.90		mg/L	5.00		118	44.6-151			
Surrogate: 1-Chlorooctane	5.23		mg/L	5.00		105	37.1-138			
DRO >C10-C28	55.2	1.00	mg/L	50.0		110	77.5-117			
GRO C6-C10	50.5	1.00	mg/L	50.0		101	72.8-108			

LCS Dup (8121704-BSD1)

Prepared & Analyzed: 12/17/18

Surrogate: 1-Chlorooctadecane	6.00		mg/L	5.00		120	44.6-151			
Surrogate: 1-Chlorooctane	5.30		mg/L	5.00		106	37.1-138			
DRO >C10-C28	55.4	1.00	mg/L	50.0		111	77.5-117	0.416	12.1	
GRO C6-C10	51.2	1.00	mg/L	50.0		102	72.8-108	1.32	12	

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

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BP America Production Co. Bill to (if different):

Project Manager: Steve Moskal P.O. #:

Address: 380 Airport Road Company:

City: Durango State: CO Zip: 81303

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

Additional Report To: Address:

Project Name: Richardson G2 City:

Project Number: State: Zip:

Sampler Name (Print): Kyle Slessor Phone #:

FOR LAB USE ONLY Fax or Email:

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:	BTEX	TPH	API
1812-061-01	WS01	12/6/18	1650				X			1						X	X	X
-02	WS02	12/6/18	1700				X			1						X	X	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 analyses. 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: *M. Slessor* Date: 12/7/18 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 12/7/18 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 09/11/10 Received By: *[Signature]*

Delivered By: (Circle One) UPS - FedEx - Kangaroo - Other: *2.2/2.0 v* Temperature at receipt: *#1 only* CHECKED BY: *[Signature]*

ADDITIONAL REMARKS: *[Blank]* Report to State? (Circle) No

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