

July 30, 2018

ROBBIE RUNNELS

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: BLACK RIVER FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received:	07/24/2018	Sampling Date:	07/19/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	BLACK RIVER FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CHISHOLM ENERGY - EDDY CO NM		

**Sample ID: SP 1 FLOOR @ 1' (H802017-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 FLOOR @ 1' (H802017-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	315	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	524	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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\*=Accredited Analyte

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 Basin Environmental Service  
 ROBBIE RUNNELS  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/24/2018	Sampling Date:	07/20/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	BLACK RIVER FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CHISHOLM ENERGY - EDDY CO NM		

**Sample ID: SP 3 FLOOR @ 2' (H802017-03)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEx	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	11.3	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 FLOOR @ 1' (H802017-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 72.3 % 41-142

Surrogate: 1-Chlorooctadecane 69.8 % 37.6-147

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Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 WALL (H802017-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEx	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 WALL (H802017-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEx	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	89.6	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	237	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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\*=Accredited Analyte

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P.O. Box 301  
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Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 WALL (H802017-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	75.2	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	174	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.3 % 37.6-147

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Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 WALL (H802017-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEx	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	646	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	890	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.2 % 37.6-147

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Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 WALL (H802017-09)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	182	91.2	200	2.04	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	192	95.9	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 10 WALL (H802017-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32	
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88	
Total BTEx	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received:	07/24/2018	Sampling Date:	07/20/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	BLACK RIVER FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CHISHOLM ENERGY - EDDY CO NM		

**Sample ID: SP 11 WALL (H802017-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.83	91.5	2.00	5.32		
Toluene*	<0.050	0.050	07/27/2018	ND	1.87	93.5	2.00	6.73		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.90	95.0	2.00	6.51		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.56	92.7	6.00	5.88		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
<b>DRO &gt;C10-C28*</b>	<b>20.5</b>	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 12 WALL (H802017-12)**

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/27/2018	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/20/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 13 WALL (H802017-13)**

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEx	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 14 WALL (H802017-14)**

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 15 WALL (H802017-15)**

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/27/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	1470	10.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	1120	10.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Basin Environmental Service  
ROBBIE RUNNELS  
P.O. Box 301  
Lovington NM, 88260  
Fax To: (575) 396-1429

Received: 07/24/2018  
Reported: 07/30/2018  
Project Name: BLACK RIVER FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: CHISHOLM ENERGY - EDDY CO NM

Sampling Date: 07/19/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: BACKGROUND (H802017-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/27/2018	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## ANALYSIS REQUEST

<b>Lab I.D.</b>	<b>Sample I.D.</b>
-----------------	--------------------

**Sample I.D.**

Cardinal's warranty and client's exclusive remedy for any claim arising hereunder 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 Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clients, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

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Please email results to [pm@basineny.com](mailto:pm@basineny.com)



**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

### **ANALYSIS REQUEST**

FOR LAB USE ONLY

**Sample I.D.**

H802017

**PLEASE NOTE: Liability**

Relinquished By:

Received By:

1000

15 JULY 2004

Phone F

Result: ☐ Yes ☐ No Add'l Phone #

4

1

Fax Res

Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
---------	------------------------------	-----------------------------	--------------

Received By:



.....

**Figure 1**

**Delivered By: (Circle One)**

San

### Simple Condition

**CHECKED BY:**

[illegible]

Online resource is [phil@bucknallcity.com](mailto:phil@bucknallcity.com)

**Sampler - UPS - Bus - Other:**☒ 450

Yes ☒ Yes

3

---