

2057 Commerce Drive Midland, TX 79703

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www.TRCsolutions.com

RECEIVED

By JKeyes at 2:59 pm, Oct 14, 2015

APPROVED

By JKeyes at 2:59 pm, Oct 14, 2015

Stipulation:

RP will remain open until site abandonment at which time contaminated soils will need to be addressed.

September 24, 2015

Kellie Jones Environmental Specialist New Mexico Oil Conservation Division – District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: Soil Investigation Summary and Deferred Remediation Request
Three Rivers Operating Company, LLC
Eagle 2 State 3 Release Site
NMOCD Reference 1RP-3566
Unit Letter "F", Section 2, Township 20 South, Range 34 East, NMPM
Lea County, New Mexico

Dear Ms. Jones,

TRC Solutions (TRC), on behalf of Three Rivers Operating Company, LLC (3ROC) is pleased to present the New Mexico Oil Conservation Division (NMOCD), with this Soil Investigation Summary and Deferred Remediation Request for the crude oil and produced water release which occurred at the Eagle 2 State 3 Tank Battery. The Eagle 2 State 3 Tank Battery is located approximately sixteen (16) miles west of Monument in Lea County, New Mexico. The release site is located in Unit Letter "F", Section 2, Township 20 South, Range 34 East. The GPS coordinates for the site are N 32.603944° and W 103.532060°. The property landowner is The State of New Mexico Land Trust. A Site Location Map is provided as Figure 1.

On February 17, 2015, a crude oil and produced water release occurred at the Eagle 2 State 3 Tank Battery. According to a 3ROC representative, "An offset operator frac'd into our well and caused a small stuffing box leak which led to a release at the battery inside the containment with plastic liner. Location had 1 bbl of oil and 15 bbls of water at well and 20 bbls of oil and 220 bbls of water at the battery inside the containment." Please note, according to 3ROC, the Eagle 2 State 3 Release (1RP-3566) and the Eagle 2 State 6H Release (1RP-3567) are attributed to a single incident. According to 3ROC, approximately twenty (20) bbls of crude oil were released and recovered at the Eagle 2 State 3 Tank Battery and placed in the crude oil storage tanks. In addition, approximately two hundred twenty (220) bbls of produced water were released and hauled to a Salt Water Disposal (SWD) facility. For reference, attached Figure 2 depicts the impacted area and the soil sample locations at the 3ROC Eagle 2 State 3 Release Site. The NMOCD Form C-141 (Release Notification and Corrective Action) is attached.

A database maintained by the New Mexico Office of the State Engineer did not identify any registered water wells in Section 2, Township 20 South, Range 34 East. A reference map utilized by the New

Mexico Oil Conservation Division (NMOCD) Hobbs District Office, indicates groundwater should be encountered at approximately one hundred ten (110) feet below ground surface (bgs). No water wells or surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD Site Classification criteria, the Release Site remediation levels are 10 mg/Kg for benzene, 50 mg/Kg for benzene, toluene, ethylbenzene, and toluene (BTEX) and 5,000 mg/Kg for total petroleum hydrocarbons (TPH). Generally, the NMOCD approves leaving chloride concentrations less than 1,000 mg/Kg in place if the depth to groundwater in the release area exceeds one hundred (100) bgs, provided vertical delineation to 250 mg/Kg is achieved.

According to 3ROC, "field staff cleaned inside the tank battery" and the affected soil was hauled off. On March 30, 2015, TRC collected three (3) soil samples (S1 @ 3", S2 @ 3", and S3 @ 3") and submitted the soil samples to Permian Basin Environmental Lab, LP in Midland, Texas. Soil samples were analyzed for concentrations of BTEX using Method SW846-8021B, TPH using Method SW846-8015M, and chloride using Method E300.0.

The analytical results indicated, benzene concentrations ranged from less than the laboratory method detection limit (MDL) of 0.00108 mg/Kg for soil sample S3 @ 3" to 1.13 mg/Kg for soil sample S2 @ 3". BTEX concentrations ranged from 0.02124 mg/Kg for soil sample S3 @ 3" to 24.988 mg/Kg for soil sample S1 @ 3". TPH concentrations ranged from 5,167 mg/Kg for soil sample S3 @ 3" to 14,270 mg/Kg for soil sample S1 @ 3". Chloride concentrations ranged from 398 mg/Kg for soil sample S1 @ 3" to 2,620 for soil sample S3 @ 3". Please reference Figure 2 for soil sample locations. A table summarizing Benzene, BTEX, TPH, and Chloride Concentration in Soil is provided as Table 1. Laboratory analytical data is provided.

Based on the analytical results, additional remediation and vertical delineation was warranted at the release site. According to 3ROC, a roustabout crew scraped approximately three (3) inches of soil from the impacted area.

On May 18, 2015, TRC collected three (3) soil samples (S1a @ 6", S2a @ 6", and S3a @ 6") and the soil samples were submitted to the laboratory for analysis. The analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL for soil samples S1a @ 6" and S3a @ 6") to 0.00205 mg/Kg for soil sample S2a @ 6". BTEX concentrations ranged from less than the laboratory MDL of 0.00217 mg/Kg for soil sample S3a @ 6" to 0.09995 mg/Kg for soil sample S2a @ 6". TPH concentrations ranged from less than the laboratory MDL of 27.2 mg/Kg for soil sample S3a @ 6" to 2,533.5 mg/Kg for soil sample S2 @ 6". Chloride concentrations ranged from less than the laboratory MDL of 1.11 mg/Kg for soil sample S1a @ 6" to 1,120 mg/Kg for soil sample S2a @ 6". Please reference Figure 2 for soil sample locations.

Based on the analytical results, additional remediation and vertical delineation of chloride impact was warranted in the area represented by soil sample S2a @ 6".

On June 12, 2015, a hand auger was utilized to vertically delineate the area represented by soil sample S2a @ 6". Soil samples were collected at nine (9) inches (S2b @ 9"), twenty-four (24) inches (S2c @ 24"), sixty-three (63) inches (S2d @ 63"), and sixty-six (66) inches bgs (S2e @ 66") and submitted to the laboratory for chloride analysis The analytical results indicated, chloride concentrations ranged from 38.5 mg/Kg for soil sample S2a @ 63" to 8,200 mg/Kg for soil sample S2a @ 9".

Based on the analytical results, the Release Site has been vertical delineated and surficial remediation activities have been completed.



The Three Rivers Operating Company Eagle 2 State 3 Tank Battery is an active production facility and 3ROC requests NMOCD approval for Deferred Remediation. At Time of Abandonment (ATOA) the Eagle 2 State 3 Tank Battery facility will be remediated to NMOCD regulatory guidelines.

TRC has prepared this Soil Investigation Summary and Deferred Remediation Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Three Rivers Operating Company, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or Three Rivers Operating Company, LLC.

If you have any questions, or if additional information is needed, please feel free to call me at 432-520-7720 (office) or 432-559-3296 (cell).

Thank you,

Curt D. Stanley

Senior Project Manager

TRC Solutions, Inc.

Brittan K. Byerly Managing Principal

TRC Solutions, Inc

Attachments:

Figure 1 - Site Location Map

Figure 2 - Site Details Schematic and Soil Sample Locations Map

Table 1 – Benzene, BTEX, TPH, and Chloride Concentrations in Soil

Laboratory Analytical Reports

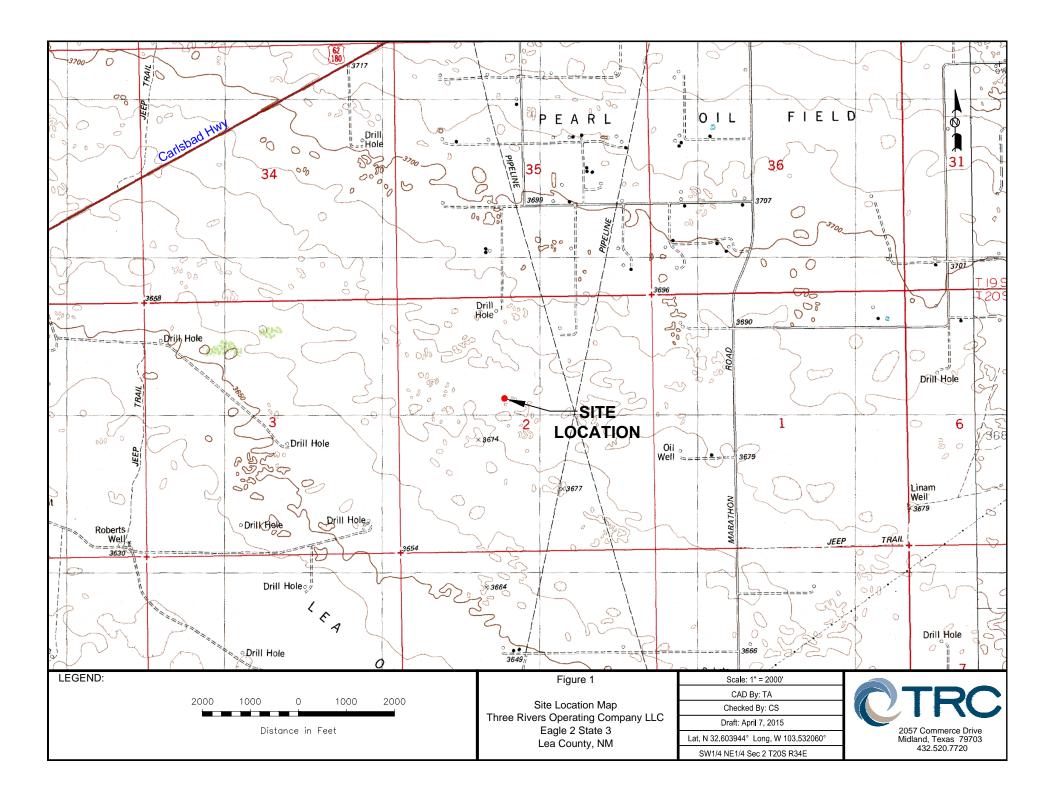
NMOCD Form C-141

Three Rivers Operating Company, LLC.

file

cc:





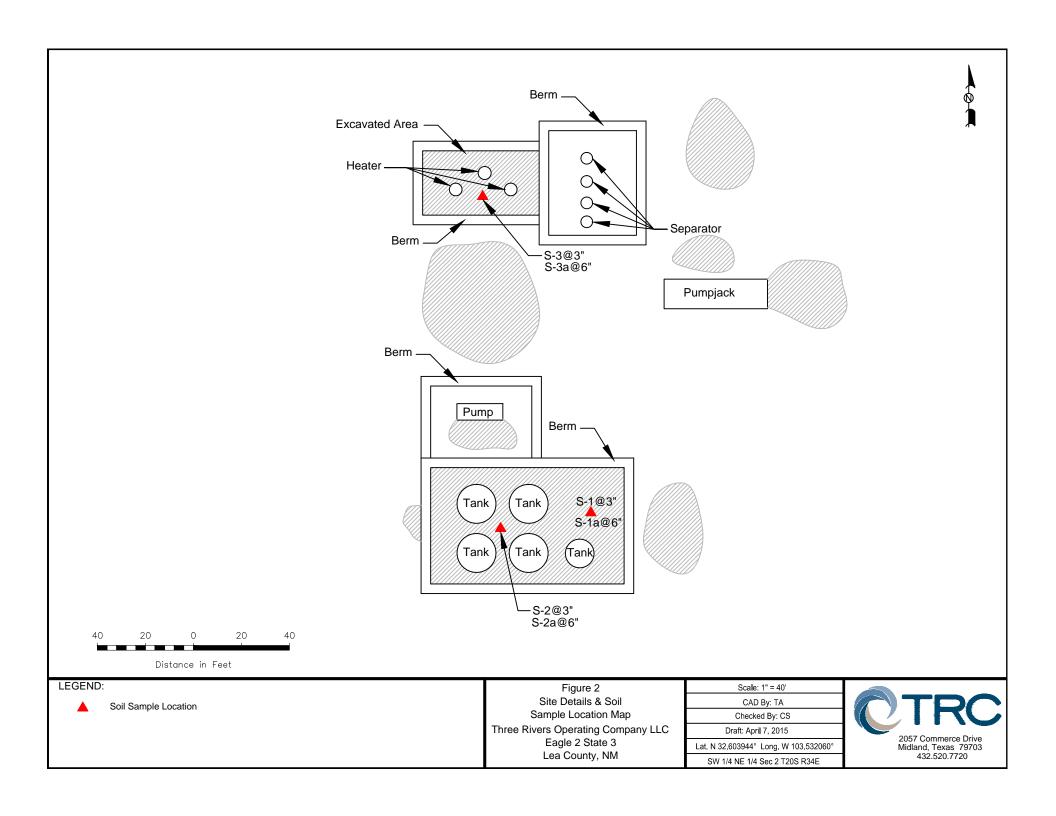


TABLE 1

BENZENE, BTEX, TPH AND CHLORIDE CONCENTRATIONS IN SOIL

THREE RIVERS OPERATING EAGLE 2 STATE 3 LEA COUNTY, NEW MEXICO

All Concentrations are reported in mg/Kg

				EPA SW 8	346-8015M				EPA SW 846-	8021B, 5030			E 300.1
SAMPLE DATE	SAMPLE LOCACTION	SAMPLE DEPTH	GRO C6-C12 mg/Kg	12 C12-C28 C28-C35 C - C			BENZENE	TOLUENE	ETHYL- BENZENE	m, p - XYLENES	o - XYLENES	BTEX	CHLORIDE
	REGULATORY UIDELINE	-	-	-	-	5,000	10	-	-	-	-	50	1,000
03/30/15	S1 @ 3"	3"	2,380	10,600	1,290	14,270	0.598	8.22	4.17	12	4.51	24.988	398
05/18/15	S1a @ 6"	6"	29.6	240	42.5	312.1	< 0.00111	<0.00222	<0.00111	0.0178	0.00467	0.02247	<1.11
03/30/15	S2 @ 3"	3"	1,550	5,710	819	8,079	1.13	4.87	2.9	11.4	3.72	20.30	1,850
05/18/15	S2a @ 6"	6"	90.5	2,130	313	2,533.5	0.00205	0.0229	0.0327	0.0341	0.00820	0.09995	1,120
03/30/15	S3 @ 3"	3"	<134	4,370	797	5,167	< 0.00108	0.00425	0.00259	0.0144	0.00278	0.02124	2,620
05/18/15	S3a @ 6"	6"	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00217	<0.00109	<0.00217	<0.00109	<0.00217	33.6

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Curt Stanley
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Three Rivers Eagle 2 State 3

Project Number: 234317 Location: Lea County, NM

Lab Order Number: 5C31005



NELAP/TCEQ # T104704156-13-3

Report Date: 04/06/15

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Curt Stanley Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1 @ 3"	5C31005-01	Soil	03/30/15 10:15	03-31-2015 12:03
S2 @ 3"	5C31005-02	Soil	03/30/15 10:20	03-31-2015 12:03
S3 @ 3"	5C31005-03	Soil	03/30/15 10:30	03-31-2015 12:03

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Curt Stanley Fax: (432) 520-7701

S1 @ 3" 5C31005-01 (Soil)

Analyta	D14	Reporting	Units	Dilution	Batch	Dranarad	Analyzad	Method	Notes
Analyte	Result	Limit	Units	Dilution	Daten	Prepared	Analyzed	ivieulou	Notes
	Perm	ian Basin E	nvironmer	ıtal Lab, l	L.P.				
Organics by GC									
Benzene	0.598	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Toluene	8.22	0.0435	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Ethylbenzene	4.17	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (p/m)	12.0	0.0435	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (o)	4.51	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		85.4 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	<u> </u>
Surrogate: 1,4-Difluorobenzene		93.6 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	
General Chemistry Parameters by EF	'A / Standard Method	<u>s</u>							
Chloride	398	1.09	mg/kg dry	1	P5D0301	03/31/15	03/31/15	EPA 300.0	
% Moisture	8.0	0.1	%	1	P5D0105	04/01/15	04/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C	35 by EPA Method 80	15M							
C6-C12	2380	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C12-C28	10600	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C28-C35	1290	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: o-Terphenyl		104 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	14300	136	mg/kg dry	5	[CALC]	03/31/15	03/31/15	calc	

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Curt Stanley Fax: (432) 520-7701

S2 @ 3" 5C31005-02 (Soil)

		Reporting							
Analyte	Result Limit Units D				Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	nvironmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	1.13	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Toluene	4.87	0.0435	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Ethylbenzene	2.90	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (p/m)	11.4	0.0435	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (o)	3.72	0.0217	mg/kg dry	20	P5D0203	04/01/15	04/01/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.6 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	
General Chemistry Parameters by EPA	A / Standard Method	s							
Chloride	1850	10.9	mg/kg dry	10	P5D0301	03/31/15	03/31/15	EPA 300.0	
% Moisture	8.0	0.1	%	1	P5D0105	04/01/15	04/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C3	5 by EPA Method 80	15M							
C6-C12	1550	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C12-C28	5710	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C28-C35	819	136	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: 1-Chlorooctane	·	107 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	8080	136	mg/kg dry	5	[CALC]	03/31/15	03/31/15	calc	

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Curt Stanley Fax: (432) 520-7701

S3 @ 3" 5C31005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P5D0203	04/01/15	04/01/15	EPA 8021B	
Toluene	0.00425	0.00215	mg/kg dry	1	P5D0203	04/01/15	04/01/15	EPA 8021B	
Ethylbenzene	0.00259	0.00108	mg/kg dry	1	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (p/m)	0.0144	0.00215	mg/kg dry	1	P5D0203	04/01/15	04/01/15	EPA 8021B	
Xylene (o)	0.00278	0.00108	mg/kg dry	1	P5D0203	04/01/15	04/01/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		84.3 %	75-1	25	P5D0203	04/01/15	04/01/15	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	s							
Chloride	2620	10.8	mg/kg dry	10	P5D0301	03/31/15	03/31/15	EPA 300.0	
% Moisture	7.0	0.1	%	1	P5D0105	04/01/15	04/01/15	% calculation	
Total Petroleum Hydrocarbons C6-C	235 by EPA Method 80	15M							
C6-C12	ND	134	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C12-C28	4370	134	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
>C28-C35	797	134	mg/kg dry	5	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: 1-Chlorooctane		94.8 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-1	30	P5D0107	03/31/15	03/31/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5170	134	mg/kg dry	5	[CALC]	03/31/15	03/31/15	calc	

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703

Project Number: 234317 Project Manager: Curt Stanley Fax: (432) 520-7701

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD		ĺ
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ĺ

Blank (P5D0203-BLK1)				Prepared & Anal	yzed: 04/01/15				
Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00200	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 1,4-Difluorobenzene	52.4		ug/kg	60.0	87.3	75-125			
Surrogate: 4-Bromofluorobenzene	66.7		"	60.0	111	75-125			
LCS (P5D0203-BS1)				Prepared & Anal	yzed: 04/01/15				
Benzene	0.105	0.00100	mg/kg wet	0.100	105	70-130			
Toluene	0.113	0.00200	"	0.100	113	70-130			
Ethylbenzene	0.111	0.00100	"	0.100	111	70-130			
Xylene (p/m)	0.233	0.00200	"	0.200	116	70-130			
Xylene (o)	0.117	0.00100	"	0.100	117	70-130			
Surrogate: 1,4-Difluorobenzene	60.1		ug/kg	60.0	100	75-125			
Surrogate: 4-Bromofluorobenzene	67.9		"	60.0	113	75-125			
LCS Dup (P5D0203-BSD1)				Prepared & Anal	yzed: 04/01/15				
Benzene	0.104	0.00100	mg/kg wet	0.100	104	70-130	1.01	20	
Toluene	0.116	0.00200	"	0.100	116	70-130	2.64	20	
Ethylbenzene	0.110	0.00100	"	0.100	110	70-130	0.190	20	
Xylene (p/m)	0.228	0.00200	"	0.200	114	70-130	2.18	20	
Xylene (o)	0.117	0.00100	"	0.100	117	70-130	0.428	20	
Surrogate: 1,4-Difluorobenzene	62.4		ug/kg	60.0	104	75-125			
Surrogate: 4-Bromofluorobenzene	66.5		"	60.0	111	75-125			

TRC Solutions- Midland, Texas Project: Three Rivers Eagle 2 State 3

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Curt Stanley

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5D0105 - *** DEFAULT PREP ***										
Blank (P5D0105-BLK1)				Prepared &	Analyzed:	04/01/15				
% Moisture	ND	0.1	%							
Duplicate (P5D0105-DUP1)	Sou	rce: 5C31003	-01	Prepared &	Analyzed:	04/01/15				
% Moisture	ND	0.1	%		0.0				20	
Duplicate (P5D0105-DUP2)	Sou	rce: 5C31003	-05	Prepared &	Analyzed:	: 04/01/15				
% Moisture	ND	0.1	%	-	0.0				20	
Duplicate (P5D0105-DUP3)	Sou	rce: 5C31004	-03	Prepared &	Analyzed:	04/01/15				
% Moisture	ND	0.1	%		0.0				20	
Batch P5D0301 - *** DEFAULT PREP ***										
Blank (P5D0301-BLK1)				Prepared &	Analyzed:	03/31/15				
Chloride	ND	1.00	mg/kg wet							
LCS (P5D0301-BS1)				Prepared &	Analyzed:	: 03/31/15				
Chloride	104	1.00	mg/kg wet	100	-	104	80-120			
LCS Dup (P5D0301-BSD1)				Prepared &	Analyzed:	: 03/31/15				
Chloride	104	1.00	mg/kg wet	100		104	80-120	0.00	20	
Duplicate (P5D0301-DUP1)	Sou	rce: 5C31005	-01	Prepared &	Analyzed:	03/31/15				
Chloride	402	1.09	mg/kg dry		398			0.973	20	
Matrix Spike (P5D0301-MS1)	Sou	rce: 5C31005	-01	Prepared &	Analyzed:	03/31/15				
Chloride	470	1.09	mg/kg dry	109	398	66.2	80-120			QR-0

Midland TX, 79703

Project: Three Rivers Eagle 2 State 3

Fax: (432) 520-7701 2057 Commerce Street

Project Number: 234317 Project Manager: Curt Stanley

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	** *	Spike	Source	0/775	%REC	222	RPD	27.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5D0107 - TX 1005										
Blank (P5D0107-BLK1)				Prepared &	Analyzed:	03/31/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	90.9		"	100		90.9	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			
LCS (P5D0107-BS1)				Prepared &	Analyzed:	03/31/15				
C6-C12	843	25.0	mg/kg wet	1000		84.3	75-125			
>C12-C28	871	25.0	"	1000		87.1	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	50.1		"	50.0		100	70-130			
LCS Dup (P5D0107-BSD1)				Prepared &	Analyzed:	03/31/15				
C6-C12	847	25.0	mg/kg wet	1000		84.7	75-125	0.488	20	
>C12-C28	849	25.0	"	1000		84.9	75-125	2.58	20	
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	48.7		"	50.0		97.5	70-130			
Matrix Spike (P5D0107-MS1)	Sou	rce: 5C31007	7-02	Prepared: (03/31/15 A	nalyzed: 04	/01/15			
C6-C12	955	30.5	mg/kg dry	1220		78.3	75-125			
>C12-C28	1080	30.5	"	1220		88.8	75-125			
Surrogate: 1-Chlorooctane	127		"	122		104	70-130			
Surrogate: o-Terphenyl	63.6		"	61.0		104	70-130			
Matrix Spike Dup (P5D0107-MSD1)	Sour	rce: 5C31007	7-02	Prepared: (03/31/15 A	nalyzed: 04	/01/15			
C6-C12	1030	30.5	mg/kg dry	1220		84.3	75-125	7.35	20	
>C12-C28	1150	30.5	"	1220		94.6	75-125	6.29	20	
Surrogate: 1-Chlorooctane	151		"	122		123	70-130			
Surrogate: o-Terphenyl	68.1		"	61.0		112	70-130			
• •										

TRC Solutions- Midland, Texas Project: Three Rivers Eagle 2 State 3

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Curt Stanley

Notes and Definitions

QR-01	Analyses are not controlled on RPD	values from sample concentrations less than 1	10 times the reporting limit. QC batch accepted
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based on LCS and/or LCSD QC results.

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

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darlor			
Report Approved By:			Date:	4/6/2015	

PAR

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Fax: (432) 520-7701



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP 10014 S. County Road 1213 Midland, Texas 79706

Phone: 432-661-4184

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Standard TAT

PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Geoff Leking
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Three Rivers Eagle 2 State 3

Project Number: 234317

Location: Lea County, New Mexico

Lab Order Number: 5E19009



NELAP/TCEQ # T104704156-13-3

Report Date: 05/28/15

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1a @ 6"	5E19009-01	Soil	05/18/15 12:40	05-19-2015 10:36
S-2a @ 6"	5E19009-02	Soil	05/18/15 12:45	05-19-2015 10:36
S-3a @ 6"	5E19009-03	Soil	05/18/15 12:55	05-19-2015 10:36

Fax: (432) 520-7701

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

S-1a @ 6" 5E19009-01 (Soil)

Analyte	Result	Reporting Limit Units		Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironme	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (p/m)	0.0178	0.00222	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (o)	0.00467	0.00111	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 % 75-125			P5E2802	05/22/15	05/23/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		117 %	75-1	25	P5E2802	05/22/15	05/23/15	EPA 8021B	
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	ND	1.11	mg/kg dry	1	P5E2107	05/19/15	05/21/15	EPA 300.0	
% Moisture	10.0	0.1	%	1	P5E2001	05/20/15	05/20/15	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80	015M							
C6-C12	29.6	27.8	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
>C12-C28	240	27.8	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
>C28-C35	42.5	27.8	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
Surrogate: 1-Chlorooctane		67.2 %	70-1	30	P5E2102	05/19/15	05/20/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		79.9 %	70-1	30	P5E2102	05/19/15	05/20/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	312	27.8	mg/kg dry	1	[CALC]	05/19/15	05/20/15	calc	

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking

> S-2a @ 6" 5E19009-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	nvironmer	ıtal Lab, l	L .P.				
Organics by GC									
Benzene	0.00205	0.00114	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Toluene	0.0229	0.00227	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Ethylbenzene	0.0327	0.00114	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (p/m)	0.0341	0.00227	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Xylene (o)	0.00820	0.00114	mg/kg dry	1	P5E2802	05/22/15	05/23/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		136 %	75-1	25	P5E2802	05/22/15	05/23/15	EPA 8021B	S-09
Surrogate: 4-Bromofluorobenzene		139 %	75-1	25	P5E2802	05/22/15	05/23/15	EPA 8021B	S-09
General Chemistry Parameters by E	PA / Standard Method	ls							
Chloride	1120	5.68	mg/kg dry	5	P5E2107	05/19/15	05/21/15	EPA 300.0	
% Moisture	12.0	0.1	%	1	P5E2001	05/20/15	05/20/15	% calculation	
Total Petroleum Hydrocarbons C6-C	C35 by EPA Method 80)15M							
C6-C12	90.5	28.4	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
>C12-C28	2130	28.4	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
>C28-C35	313	28.4	mg/kg dry	1	P5E2102	05/19/15	05/20/15	TPH 8015M	
Surrogate: 1-Chlorooctane		63.7 %	63.7 % 70-130		P5E2102	05/19/15	05/20/15	TPH 8015M	S-GC
Surrogate: o-Terphenyl		99.1 %	70-1	30	P5E2102	05/19/15	05/20/15	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	2530	28.4	mg/kg dry	1	[CALC]	05/19/15	05/20/15	calc	

Fax: (432) 520-7701

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking

> S-3a @ 6'' 5E19009-03 (Soil)

Analyte	Result	Reporting Limit Units		Dilution	Batch	Prepared	Analyzed	Method	Notes						
	Permian Basin Environmental Lab, L.P.														
Organics by GC															
Benzene	ND	0.00109	mg/kg dry	1	P5E2704	05/26/15	05/26/15	EPA 8021B							
Toluene	ND	0.00217	mg/kg dry	1	P5E2704	05/26/15	05/26/15	EPA 8021B							
Ethylbenzene	ND	0.00109	mg/kg dry	1	P5E2704	05/26/15	05/26/15	EPA 8021B							
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P5E2704	05/26/15	05/26/15	EPA 8021B							
Xylene (o)	ND	0.00109	mg/kg dry	1	P5E2704	05/26/15	05/26/15	EPA 8021B							
Surrogate: 4-Bromofluorobenzene		133 %	75-1	25	P5E2704	05/26/15	05/26/15	EPA 8021B	S-GC						
Surrogate: 1,4-Difluorobenzene		93.6 %	75-1	25	P5E2704	05/26/15	05/26/15	EPA 8021B							
General Chemistry Parameters by EPA	Standard Metho	ds													
Chloride	33.6	1.09	mg/kg dry	1	P5E2107	05/19/15	05/21/15	EPA 300.0							
% Moisture	8.0	0.1	%	1	P5E2001	05/20/15	05/20/15	% calculation							
Total Petroleum Hydrocarbons C6-C35	by EPA Method 8	015M													
C6-C12	ND	27.2	mg/kg dry	1	P5E2208	05/20/15	05/20/15	TPH 8015M							
>C12-C28	ND	27.2	mg/kg dry	1	P5E2208	05/20/15	05/20/15	TPH 8015M							
>C28-C35	ND	27.2 mg/kg dry		1	P5E2208	05/20/15	05/20/15	TPH 8015M							
Surrogate: 1-Chlorooctane		78.2 %	70-1	30	P5E2208	05/20/15	05/20/15	TPH 8015M							
Surrogate: o-Terphenyl		94.5 %	70-1	30	P5E2208	05/20/15	05/20/15	TPH 8015M							
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/20/15	05/20/15	calc							

Fax: (432) 520-7701

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,	Result	Liiiit	Cinto	Level	Result	/UKLC	Limits	МЪ	Liiiit	110103
Batch P5E2704 - TX 1005										
Blank (P5E2704-BLK1)				Prepared &	Analyzed: 0	5/26/15				
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0472		"	0.0500		94.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0656		"	0.0500		131	75-125			S-G
LCS (P5E2704-BS1)				Prepared &	Analyzed: 0	5/26/15				
Benzene	0.0812	0.00100	mg/kg wet	0.100		81.2	70-130			
Toluene	0.0922	0.00200	"	0.100		92.2	70-130			
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.107	0.00100	"	0.100		107	70-130			
Surrogate: 1,4-Difluorobenzene	0.0538		"	0.0500		108	75-125			
Surrogate: 4-Bromofluorobenzene	0.0636		"	0.0500		127	75-125			S-G
LCS Dup (P5E2704-BSD1)				Prepared &	α Analyzed: 0	5/26/15				
Benzene	0.0850	0.00100	mg/kg wet	0.100		85.0	70-130	4.50	20	
Toluene	0.0971	0.00200	"	0.100		97.1	70-130	5.19	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	6.44	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	70-130	4.65	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	4.60	20	
Surrogate: 4-Bromofluorobenzene	0.0643		"	0.0500		129	75-125			S-G
Surrogate: 1,4-Difluorobenzene	0.0542		"	0.0500		108	75-125			
Batch P5E2802 - TX 1005										
Blank (P5E2802-BLK1)				Prepared &	Analyzed: 0	5/22/15				
Benzene	ND	0.00100	mg/kg wet	•						
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0621		"	0.0500		124	75-125			
Surrogate: 1,4-Difluorobenzene	0.0524		"	0.0500		105	75-125			

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

Organics by GC - Quality Control Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5E2802 - TX 1005										
LCS (P5E2802-BS1)				Prepared &	Analyzed:	05/22/15				
Benzene	0.0947	0.00100	mg/kg wet	0.100		94.7	70-130			
Toluene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.213	0.00200	"	0.200		106	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0580		"	0.0500		116	75-125			
Surrogate: 1,4-Difluorobenzene	0.0663		"	0.0500		133	75-125			S-GC
LCS Dup (P5E2802-BSD1)				Prepared &	Analyzed:	05/22/15				
Benzene	0.0911	0.00100	mg/kg wet	0.100		91.1	70-130	3.89	20	
Toluene	0.103	0.00200	"	0.100		103	70-130	4.68	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130	0.302	20	
Xylene (p/m)	0.213	0.00200	"	0.200		107	70-130	0.413	20	
Xylene (o)	0.104	0.00100	"	0.100		104	70-130	0.615	20	
Surrogate: 4-Bromofluorobenzene	0.0600		"	0.0500		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.0616		"	0.0500		123	75-125			

TRC Solutions- Midland, Texas Project: Three Rivers Eagle 2 State 3

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Geoff Leking

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5E2001 - *** DEFAULT PREP ***										
Blank (P5E2001-BLK1)				Prepared &	Analyzeo	d: 05/20/15				
% Moisture	ND	0.1	%							
Duplicate (P5E2001-DUP1)	Sour	ce: 5E19006	-03	Prepared &	. Analyzed	d: 05/20/15				
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P5E2001-DUP2)	Sour	ce: 5E19013	-01	Prepared &	Analyzed	d: 05/20/15				
% Moisture	29.0	0.1	%		30.0			3.39	20	
Batch P5E2107 - *** DEFAULT PREP ***										
Blank (P5E2107-BLK1)				Prepared: ()5/19/15 A	Analyzed: 05	/21/15			
Chloride	ND	1.00	mg/kg wet							
LCS (P5E2107-BS1)				Prepared: ()5/19/15 A	Analyzed: 05	/21/15			
Chloride	105	1.00	mg/kg wet	100		105	80-120			
LCS Dup (P5E2107-BSD1)				Prepared: ()5/19/15 A	Analyzed: 05	/21/15			
Chloride	101	1.00	mg/kg wet	100		101	80-120	3.09	20	
Duplicate (P5E2107-DUP1)	Sour	ce: 5E05003	-09	Prepared: ()5/19/15 A	Analyzed: 05	/21/15			
Chloride	187	1.06	mg/kg dry		188			0.550	20	
Matrix Spike (P5E2107-MS1)	Sour	ce: 5E05003	-09	Prepared: ()5/19/15 <i>A</i>	Analyzed: 05	/21/15			
Chloride	286	1.06	mg/kg dry	106	188	91.8	80-120			

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

	D 1	Reporting	TT 11	Spike	Source	0/855	%REC	DPD	RPD	NI ·
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5E2102 - TX 1005										
Blank (P5E2102-BLK1)				Prepared &	ኔ Analyzed:	05/19/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	64.9		"	100		64.9	70-130			S-GO
Surrogate: o-Terphenyl	39.4		"	50.0		78.9	70-130			
LCS (P5E2102-BS1)				Prepared &	ኔ Analyzed:	05/19/15				
C6-C12	941	25.0	mg/kg wet	1000		94.1	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	90.4		"	100		90.4	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			
LCS Dup (P5E2102-BSD1)				Prepared &	ኔ Analyzed:	05/19/15				
C6-C12	899	25.0	mg/kg wet	1000		89.9	75-125	4.62	20	
>C12-C28	1120	25.0	"	1000		112	75-125	1.48	20	
Surrogate: 1-Chlorooctane	88.3		"	100		88.3	70-130			
Surrogate: o-Terphenyl	41.4		"	50.0		82.8	70-130			
Duplicate (P5E2102-DUP1)	Sou	rce: 5E19009	0-02	Prepared: (05/19/15 A	nalyzed: 05	/20/15			
C6-C12	100	28.4	mg/kg dry		90.5			10.1	20	
>C12-C28	2360	28.4	"		2130			10.5	20	
Surrogate: 1-Chlorooctane	74.5		"	114		65.5	70-130			S-GO
Surrogate: o-Terphenyl	46.5		"	56.8		81.9	70-130			
Batch P5E2208 - TX 1005										
Blank (P5E2208-BLK1)				Prepared &	ኔ Analyzed:	05/20/15				
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	90.2		"	100		90.2	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

Midland TX, 79703

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Project Number: 234317

Fax: (432) 520-7701

Project Number: 234317
Project Manager: Geoff Leking

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting	•	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5E2208 - TX 1005										
LCS (P5E2208-BS1)				Prepared &	Analyzed:	05/20/15				
C6-C12	803	25.0	mg/kg wet	1000		80.3	75-125			
>C12-C28	881	25.0	"	1000		88.1	75-125			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		98.9	70-130			
LCS Dup (P5E2208-BSD1)				Prepared &	Analyzed:	05/20/15				
C6-C12	752	25.0	mg/kg wet	1000		75.2	75-125	6.58	20	
>C12-C28	856	25.0	"	1000		85.6	75-125	2.88	20	
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S-09	Surrogate recovery limits have been exceeded.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported

RPD Relative Percent Difference

Sample results reported on a dry weight basis

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

dry

	Bren Surron			
Report Approved By:		Date:	5/28/2015	

0 0

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Fax: (432) 520-7701



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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	8	liter		.	y .								S-3	S-2	S-1				Signature:	e No:		Company Address:	Name	anager:	
		更	.										S-3a @ 6"	S-2a @ 6"	S-1a @ 6"	FIELD CODE	7	7	Jacus Con	(432)5207720	Midland/TX/79703	2057 Commerce Dr.	TRC Solutions, Inc.	Geoff Leking	
Date	/ Date	18/18/	Date															(Sampler Signature: Joursey Library	<u>10</u>	79703	erce Dr.	ns, Inc.		
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PERMIAN BASIN ENVIRONMENTAL LAB, LP 10014 SCR 1213 Midland, TX 79706



Analytical Report

Prepared for:

Geoff Leking
TRC Solutions- Midland, Texas
2057 Commerce Street
Midland, TX 79703

Project: Three Rivers Eagle 2 State 3
Project Number: 234317

Location: Lea County, New Mexico

Lab Order Number: 5F15006



NELAP/TCEQ # T104704156-13-3

Report Date: 06/22/15

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S2b @ 9"	5F15006-01	Soil	06/12/15 10:00	06-15-2015 11:55
S2c @ 24"	5F15006-02	Soil	06/12/15 11:20	06-15-2015 11:55
S2d @ 63"	5F15006-03	Soil	06/12/15 13:40	06-15-2015 11:55
S2e @ 66"	5F15006-04	Soil	06/12/15 13:45	06-15-2015 11:55

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Geoff Leking

S2b @ 9" 5F15006-01 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	8200	28.4 mg/kg dry	25	P5F1804	06/17/15	06/18/15	EPA 300.0
% Moisture	12.0	0.1 %	1	P5F1607	06/16/15	06/16/15	% calculation

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Geoff Leking

S2c @ 24" 5F15006-02 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	1400	5.10 mg/kg dry	5	P5F1805	06/17/15	06/18/15	EPA 300.0
% Moisture	2.0	0.1 %	1	P5F1607	06/16/15	06/16/15	% calculation

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Geoff Leking

S2d @ 63'' 5F15006-03 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	38.5	1.19 mg/kg dry	1	P5F1805	06/17/15	06/18/15	EPA 300.0
% Moisture	16.0	0.1 %	1	P5F1607	06/16/15	06/16/15	% calculation

2057 Commerce StreetProject Number: 234317Midland TX, 79703Project Manager: Geoff Leking

S2e @ 66" 5F15006-04 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Permian Basin Environmental Lab, L.P.

Chloride	77.1	1.10 mg/kg dry	1	P5F1805	06/17/15	06/18/15	EPA 300.0
% Moisture	9.0	0.1 %	1	P5F1607	06/16/15	06/16/15	% calculation

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703

Project Number: 234317

Project Manager: Geoff Leking

Fax: (432) 520-7701

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5F1607 - *** DEFAULT PREP ***										
Blank (P5F1607-BLK1)				Prepared &	Analyze	ed: 06/16/15				
% Moisture	ND	0.1	%							
Duplicate (P5F1607-DUP1)	Sour	rce: 5F11016-	02	Prepared &	Analyze	ed: 06/16/15				
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P5F1607-DUP2)	Sour	rce: 5F12001-	01	Prepared &	Analyze	ed: 06/16/15				
% Moisture	2.0	0.1	%		1.0			66.7	20	
Duplicate (P5F1607-DUP3)	Sour	rce: 5F15005-	01	Prepared &	Analyze	ed: 06/16/15				
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P5F1804 - *** DEFAULT PREP ***										
Blank (P5F1804-BLK1)				Prepared: 0	6/17/15	Analyzed: 0	6/18/15			
Chloride	ND	1.00	mg/kg wet							
LCS (P5F1804-BS1)				Prepared: 0	06/17/15	Analyzed: 0	6/18/15			
Chloride	104	1.00	mg/kg wet	100		104	80-120			
Duplicate (P5F1804-DUP1)	Sour	rce: 5F16002-	01	Prepared: 0	06/17/15	Analyzed: 0	6/18/15			
Chloride	3920	27.8	mg/kg dry		3940			0.601	20	
Duplicate (P5F1804-DUP2)	Sour	rce: 5F10011-	11	Prepared: 0	6/17/15	Analyzed: 0	6/18/15			
Chloride	4160	28.4	mg/kg dry	-	4190			0.776	20	
Matrix Spike (P5F1804-MS1)	Sour	rce: 5F16002-	01	Prepared: 0	6/17/15	Analyzed: 0	6/18/15			
Chloride	5580	27.8	mg/kg dry	1670	3940	98.3	80-120			

TRC Solutions- Midland, Texas Project: Three Rivers Eagle 2 State 3

2057 Commerce StreetProject Number:234317Midland TX, 79703Project Manager:Geoff Leking

General Chemistry Parameters by EPA / Standard Methods - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P5F1805 - *** DEFAULT PREP ***										
Blank (P5F1805-BLK1)				Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
Chloride	ND	1.00	mg/kg wet							
LCS (P5F1805-BS1)				Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
Chloride	109	1.00	mg/kg wet	100		109	80-120			
LCS Dup (P5F1805-BSD1)				Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
Chloride	111	1.00	mg/kg wet	100	·	111	80-120	1.85	20	
Duplicate (P5F1805-DUP1)	Sour	rce: 5F15006	-02	Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
Chloride	1400	5.10	mg/kg dry		1400			0.255	20	
Duplicate (P5F1805-DUP2)	Sour	rce: 5F17001	-02	Prepared &	k Analyzed:	06/18/15				
Chloride	3450	32.9	mg/kg dry		3370			2.44	20	
Matrix Spike (P5F1805-MS1)	Sou	rce: 5F15006	5-02	Prepared: (06/17/15 A	nalyzed: 06	5/18/15			
Chloride	1740	5.10	mg/kg dry	306	1400	110	80-120			

Fax: (432) 520-7701

Project: Three Rivers Eagle 2 State 3

2057 Commerce Street Midland TX, 79703 Project Number: 234317 Project Manager: Geoff Leking Fax: (432) 520-7701

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

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Drew	Darron			
Report Approved By:			Date:	6/22/2015	

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Permian Basin Environmental Lab, LP 10014 S. County Road 1213

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr. Santa Fe. NM 8750

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505														
Release Notification and Corrective Action														
						OPERA	☑ Initial Report ☑ Final Rep							
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				n, TX 78735			No. 512-600-31	95	***************************************					
Facility Nar						Facility Type Well								
Surface Ow	ner State	of New Mex	ico	Mineral C	Owner	State of New	Mexico		API No	. 30-025-3	38042			
LOCATION OF RELEASE														
Unit Letter	Section	Township	Range	Feet from the	/South Line	Feet from the	East/W	est Line	County					
F	2	20-S	34E	1980	NOR	TLI	2130		LEA					
		20-5	JAL		*			WEST		LEA				
Latitude 32.603944N Longitude 103.532060W														
NATURE OF RELEASE														
Type of Rele		d Water					Release 21 bbls		Volume Recovered 21 bbls					
Source of Re Offset operate						Date and H		Date and Hour of Discovery						
Was Immedia		riven?	***************************************			Occurrence2/17/15 6am 2/17/15 same morning If YES, To Whom?								
Was minous	ito Motioo (Yes 🕓	No Not Re	equired	I N/A								
By Whom?			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Date and Hour								
Was a Water	course Read			(If YES, Volume Impacting the Watercourse.								
			Yes 🔽	No		N/A								
If a Watercou	rse was Im	pacted, Descri	ibe Fully.	•	DE	EIVED								
N/A						NE	LEIVED							
						By 00	CD; Dr. Oberd	ding at	12:48 p	m, Mar 1	8, 20	15		
Describe Cau					any lank	, which lad to	lanan at tha h-		1. 4	4.:				
							a release at the battery							
Location had 1 bbl of oil & 15 bbls of water at well and 20 bbls of oil & 220 bbls of water at the battery inside the containment. Vacuum truck was called in to pick up oil and water. Oil was placed back into the tanks & water was hauled off to a SWD facility. Affected dirt was hauled off.												ancu		
		15												
Describe Area					t ware	the two areas	affected. The pool	l of oil in	the center	nmant was	ni alcad		h o	
vacuum truck	and put ba	ck in the tank	s. Water w	as taken to a SW	D facili	tv. Field staff	cleaned inside th	e tank ba	tterv. At t	he wellhea	d thev	up wit	n a wn	
vacuum truck and put back in the tanks. Water was taken to a SWD facility. Field staff cleaned inside the tank battery. At the wellhead they dug down about one foot and removed the affected soil and hauled it off. Fresh dirt was laid down in its place.												****		
Thanks and	C. 414 41 *	· · · · ·			1	1 1			1.1	>77.4	0.00			
							knowledge and u nd perform correc							
public health	or the envir	ronment. The	acceptance	e of a C-141 repo	ort by th	e NMOCD m	arked as "Final R	eport" do	es not reli	eve the one	rator o	f liabili	tv	
should their o	perations h	ave failed to a	dequately	investigate and r	emedia	te contaminati	on that pose a thre	eat to gro	und water	, surface wa	ater, hu	man he	ealth	
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other														
federal, state,	or local lav	ws and/or regu	lations.	M										
		, 1		(Enkison	_	OIL CONSERVATION DIVISION								
Signature:	au	nech	lane	0.3		Hydrologist								
Printed Name	: Anne Mai	ness			Approved by Environmental Specialist:									
Title: Regulat	ory Analys	t			Approval Date: 03/18/2015 Expiration Date:									

Conditions of Approval:

Phone:512-600-3195

Date: 3/17/15

* Attach Additional Sheets If Necessary

E-mail Address: amaness@3roc.com

nTO1507746867

272295

Attached

1RP-3566