

**JR OIL LTD. CO.
ENVIRONMENTAL SITE SUMMARY & SPILL REMEDIATION PLAN**

Company: JR Oil Ltd. Co. **Address:** P.O. Box 2975 Hobbs, NM 88241 **Telephone #:** (575) 390-1380

Site Name: Eaton B AC #1 **NM OCD Reference #:** 1RP-4591

Surface Owner: Private **Mineral Owner:** Private

Unit Letter: "G" (SW/NE) **Section:** 12 **Township:** 25S **Range:** 37E **County:** Lea

GPS Coordinates: 32.147477 N -103.115228 W **Depth to Ground Water:** 90'

NM OCD Ranking Score: 0 **Soil Remediation Levels (mg/kg) Benzene:** 10 **BTEX:** 50 **Chloride:** 250

Date/Time of Release: 1/15/2017, 5:00 AM **Type of Release:** Produced water & crude oil

Approximate Volume of Release: See below

Background Information:

On January 15, 2017, JR Oil, Ltd. Co. (JR Oil), discovered a release at the Eaton B AC #1 tank battery. Lightning struck the tank battery, which resulted in a fire and the release of approximately 202 barrels (bbls) of crude oil and 43 bbls of produced water. The release impacted an area of the tank battery pad and adjacent pasture measuring approximately 100 yards. The majority of the crude oil was consumed by the fire.

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District office on January 16, 2017. The NMOCD "Release Notification & Corrective Action" (Form C-141) is provided as Appendix A. General photographs of the release site are provided in Attachment B. A "Sample Location Map" is provided as Figure 1.

Summary of Field Activities:

This summary is a subsequent account of activities performed after the initial report by Trinity Oilfield Services.

On February 2-22, 2018, the process of cleaning and remediating soil on the subject area commenced. Soil was excavated by backhoe to 1 ½ to 2'. Hit hard caliche. All soil that was excavated was stacked adjacent on 20 mil liner.

On February 27, 2018, Joe Tippy met with Olivia Yu to discuss progress and further activity.

On March 5-10, 2018, the excavation was completed on all areas with a loader and dozer. A portion of excavated soil was hauled to Sundance. The remainder was stacked.

On March 15, 2018, soil samples were taken from two sites on the north wall (SP-1 and SP-2) and from the floor (Floor #1, 2, and 3) at the south and east areas.

On March 22, 2018 all soil samples taken March 15, 2018 were cleared.

On March 27, 2018, soil samples were taken at 50 foot intervals along sidewalls on North and Central excavations. SP #6, 9, 10, 11, 12 taken from this day returned high on Chlorides. SP #6, 10, and 11 are against the battery fence and SP #12 is in the center of a 4' excavation; therefore, these sample points were considered not actionable. SP #9 was considered actionable.

On April 9, 2018, 2' of sidewall was excavated at SP #9. Two more soil samples were taken from this location. SP #9-2 was taken 6' west and 2' south of SP #9. SP #9-3 was taken 6' east and 2' south of SP #9. SP 10-2 was taken 6' east of SP-10. SP #9-2 and #10-2 cleared.

On April 27, 2018, another 1' of sidewall was excavated from sample point #9. One more sample was taken from this area (Sample point #9-5) 6' East and 3' South of sample point #9.

On May 1, 2018, sample point #9-5 cleared.

Proposed Activities:

JR Oil proposes completion of clean up as follows:

1. Pad excavation with sand.
2. Line bottom and sidewalls with 20 mil liner.
3. Backfill with field dirt available nearby from landowner.
4. Haul remaining excavated soil to approved disposal.
5. Smooth and seed pasture area.

Enclosures:

Figure 1: Sample Location Map

Table 1: Concentrations of Benzene, BTEX, & Chloride in soil

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Photographs

Appendix C: Laboratory Analytical Results

FIGURES



Figure 1 Sample Location Map

GPS COORDINATES OF SAMPLE POINTS FROM FIGURE 1

SP-1	32° 08.854'N	-103° 06.911' W
SP-2	32° 08.855'N	-103° 06.903' W
SP-3	32° 08.855'N	-103° 06.892' W
SP-4	32° 08.855'N	-103° 06.885' W
SP-5	32° 08.855'N	-103° 06.875' W
SP-6	32° 08.847'N	-103° 06.888' W
SP-7	32° 08.843'N	-103° 06.897' W
SP-8	32° 08.845'N	-103° 06.904' W
SP-9	32° 08.853'N	-103° 06.912' W
SP-10	32° 08.850'N	-103° 06.873' W
SP-11	32° 08.851'N	-103° 06.885' W
SP-12	32° 08.853'N	-103° 06.902' W
Floor #1	32° 08.842'N	-103° 06.869' W
Floor #2	32° 08.836'N	-103° 06.881' W
Floor #3	32° 08.831'N	-103° 06.902' W
SP 9-2	32° 08.853'N	-103° 06.914' W
SP 9-5	32° 08.852'N	-103° 06.910' W
SP 10-2	6' East from SP-10	

TABLES

TABLE 1
CONCENTRATION OF BENZENE, BTEX & CHLORIDE IN SOIL

JR OIL LTD. CO.
EATON B AC #1
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4591

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA 8021B					METHOD: EPA 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD RECOMMENDED REMEDIATION ACTION LEVELS (RRALs)				10	NE	NE	NE	50	500
FLOOR #1	1'	3/22/2018		<.00201	<.00201	<.00201	<.00201	<.00201	
FLOOR #2	1'	3/22/2018		<.00199	<.00199	<.00199	<.00200	<.00199	
FLOOR #3	1'	3/22/2018		<.00200	<.00200	<.00200	<.00200	<.00200	
SIDEWALL #1	4'	3/20/2018							10.3
SIDEWALL #2	4'	3/20/2018							<4.99
SIDEWALL #3	4'	3/27/2018							31.6
SIDEWALL #4	4'	3/27/2018							13.7
SIDEWALL #5	4'	3/27/2018							<4.99
SIDEWALL #6	2'	3/27/2018							1570
SIDEWALL #7	2'	3/27/2018							133
SIDEWALL #8	2'	3/27/2018							42.5
SIDEWALL #9	4'	3/27/2018							926
SIDEWALL #10	4'	3/27/2018							557
SIDEWALL #11	4'	3/27/2018							2170
SIDEWALL #12	4'	3/27/2018							1900
SIDEWALL #9-2	4'	4/9/2018							244
SIDEWALL #9-3	4'	4/9/2018							508
SIDEWALL #10-2	4'	4/9/2018							<4.98
SIDEWALL SP #9-5	4'	4/27/2018							104

APPENDICES

APPENDIX A
RELEASE NOTIFICATION &
CORRECTIVE ACTION (FORM C-141)

District I
1625 N. Fresno 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 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company J R Oil Co. Ltd. Co.	Contact Joe Tippy
Address P.O. Box 2975, Hobbs, NM 88241	Telephone No. 575-390-1380
Facility Name Eaton B AC #1	Facility Type Tank Battery
Surface Owner Blocker Ranch	Mineral Owner Various private owners
API No. 30-025-11549	

LOCATION OF RELEASE

Unit Letter G	Section 12	Township 25S	Range 37E	Feet from the 1980	North/South Line North	Feet from the 2310	East/West Line East	County Lea
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Latitude

Longitude

NATURE OF RELEASE

Type of Release Oil and Water Spill	Volume of Release 202 BO / 43 BW	Volume Recovered Zero
Source of Release Tank	Date and Hour of Occurrence 1/15/17 5:00 a.m.	Date and Hour of Discovery 1/15/17 11:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mark Whitaker	
By Whom? Joe Tippy	Date and Hour 1/16/17 11:00 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully *

RECEIVED

By Olivia Yu at 8:55 am, Feb 09, 2017

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck the tank battery which resulted in a fire. Fire destroyed the tank battery. The fire department put out any remaining fire.

Describe Area Affected and Cleanup Action Taken.*

The oil was burned up in the fire; the oil tank was blown into the pasture. The fire resulted in a burned area of approximately 100 yards. Clean up is ongoing. Any contaminated soil will be removed and hauled to Sundance's facility. Once the cleanup is complete, a final report will be submitted with the details.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability 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 laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: Debbie McKelvey	Approved by Environmental Specialist: [Signature]
Printed Name: Debbie McKelvey	Approval Date: 2/9/2017 Expiration Date:
Title: Agent	Conditions of Approval: see attached directive
E-mail Address: debmckelvey@earthlink.net	Attached <input checked="" type="checkbox"/>
Date: 1/17/17 Phone: 575-392-3575	

1RP-4591

nOY1704032211

pOY1704032535

APPENDIX B

PHOTOGRAPHS



View facing West from the battery



View facing Northwest from the battery



View facing Northeast from the battery



View facing North from the battery



View facing Southwest from the battery



View facing Southeast from the battery



View facing East from the battery

APPENDIX C
LABORATORY ANALYTICAL
REPORTS



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Certificate of Analysis Summary 579570

J R Oil Ltd., Hobbs, NM

Project Name: Eaton B A C



Project Id:

Contact: Joe Tippy

Project Location: Jal NM

Date Received in Lab: Mon Mar-19-18 08:00 am

Report Date: 26-MAR-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	579570-001	579570-002	579570-003	579570-004	579570-005	
	<i>Field Id:</i>	Floor Sample #1	Floor Sample #2	Floor Sample #3	Sidewall #1	Sidewall #2	
	<i>Depth:</i>	1- ft	1- ft	1- ft	4- ft	4- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	Mar-15-18 15:00	Mar-15-18 15:00	Mar-15-18 15:00	Mar-15-18 15:25	Mar-15-18 15:25	
BTEX by EPA 8021B	<i>Extracted:</i>	Mar-22-18 08:30	Mar-22-18 08:30	Mar-22-18 08:30			
	<i>Analyzed:</i>	Mar-22-18 08:57	Mar-22-18 09:16	Mar-22-18 09:35			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399			
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200			
Chloride by EPA 300	<i>Extracted:</i>				Mar-20-18 13:00	Mar-20-18 13:00	
	<i>Analyzed:</i>				Mar-20-18 15:39	Mar-20-18 15:44	
	<i>Units/RL:</i>				mg/kg RL	mg/kg RL	
Chloride					10.3 4.99	<4.99 4.99	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor

Holly Taylor
Project Manager

Analytical Report 579570

for
J R Oil Ltd.

Project Manager: Joe Tippy

Eaton B A C

26-MAR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)



26-MAR-18

Project Manager: **Joe Tippy**
J R Oil Ltd.
PO Box 2975
Hobbs, NM 88241

Reference: XENCO Report No(s): **579570**
Eaton B A C
Project Address: Jal NM

Joe Tippy:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 579570. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 579570 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 579570



J R Oil Ltd., Hobbs, NM

Eaton B A C

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor Sample #1	S	03-15-18 15:00	1 ft	579570-001
Floor Sample #2	S	03-15-18 15:00	1 ft	579570-002
Floor Sample #3	S	03-15-18 15:00	1 ft	579570-003
Sidewall #1	S	03-15-18 15:25	4 ft	579570-004
Sidewall #2	S	03-15-18 15:25	4 ft	579570-005



CASE NARRATIVE

Client Name: J R Oil Ltd.

Project Name: Eaton B A C

Project ID:

Work Order Number(s): 579570

Report Date: 26-MAR-18

Date Received: 03/19/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3044566 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 579570



J R Oil Ltd., Hobbs, NM

Eaton B A C

Sample Id: **Floor Sample #1**

Lab Sample Id: 579570-001

Matrix: Soil

Date Collected: 03.15.18 15.00

Date Received: 03.19.18 08.00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3044566

Date Prep: 03.22.18 08.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	03.22.18 08.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	03.22.18 08.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	03.22.18 08.57		
4-Bromofluorobenzene	460-00-4	103	%	70-130	03.22.18 08.57		



Certificate of Analytical Results 579570



J R Oil Ltd., Hobbs, NM

Eaton B A C

Sample Id: **Floor Sample #2**

Lab Sample Id: 579570-002

Matrix: Soil

Date Collected: 03.15.18 15.00

Date Received: 03.19.18 08.00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3044566

Date Prep: 03.22.18 08.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	03.22.18 09.16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	03.22.18 09.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	03.22.18 09.16		
1,4-Difluorobenzene	540-36-3	89	%	70-130	03.22.18 09.16		

J R Oil Ltd., Hobbs, NM

Eaton B A C

 Sample Id: **Floor Sample #3**

Lab Sample Id: 579570-003

Matrix: Soil

Date Collected: 03.15.18 15.00

Date Received: 03.19.18 08.00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: ALJ

Analyst: ALJ

Seq Number: 3044566

Date Prep: 03.22.18 08.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	03.22.18 09.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	03.22.18 09.35	U	1
Surrogate							
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	03.22.18 09.35		
1,4-Difluorobenzene	540-36-3	75	%	70-130	03.22.18 09.35		



Certificate of Analytical Results 579570



J R Oil Ltd., Hobbs, NM

Eaton B A C

Sample Id: **Sidewall #1**

Lab Sample Id: 579570-004

Matrix: Soil

Date Collected: 03.15.18 15.25

Date Received: 03.19.18 08.00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: LRI

Seq Number: 3044292

Date Prep: 03.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	4.99	mg/kg	03.20.18 15.39		1



Certificate of Analytical Results 579570



J R Oil Ltd., Hobbs, NM

Eaton B A C

Sample Id: **Sidewall #2**

Lab Sample Id: 579570-005

Matrix: Soil

Date Collected: 03.15.18 15.25

Date Received: 03.19.18 08.00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: LRI

Seq Number: 3044292

Date Prep: 03.20.18 13.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	03.20.18 15.44	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 579570

J R Oil Ltd.

Eaton B A C

Analytical Method: Chloride by EPA 300

Seq Number: 3044292

MB Sample Id: 7641126-1-BLK

Matrix: Solid

LCS Sample Id: 7641126-1-BKS

Prep Method: E300P

Date Prep: 03.20.18

LCSD Sample Id: 7641126-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	244	98	235	94	90-110	4	20	mg/kg	03.20.18 13:27	

Analytical Method: Chloride by EPA 300

Seq Number: 3044292

Parent Sample Id: 579487-019

Matrix: Soil

MS Sample Id: 579487-019 S

Prep Method: E300P

Date Prep: 03.20.18

MSD Sample Id: 579487-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	263	249	499	95	521	104	90-110	4	20	mg/kg	03.20.18 14:57	

Analytical Method: Chloride by EPA 300

Seq Number: 3044292

Parent Sample Id: 579647-001

Matrix: Soil

MS Sample Id: 579647-001 S

Prep Method: E300P

Date Prep: 03.20.18

MSD Sample Id: 579647-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	66.9	250	299	93	300	93	90-110	0	20	mg/kg	03.20.18 13:42	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3044566

MB Sample Id: 7641307-1-BLK

Matrix: Solid

LCS Sample Id: 7641307-1-BKS

Prep Method: SW5030B

Date Prep: 03.22.18

LCSD Sample Id: 7641307-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.116	115	0.117	116	70-130	1	35	mg/kg	03.22.18 06:54	
Toluene	<0.00202	0.101	0.113	112	0.115	114	70-130	2	35	mg/kg	03.22.18 06:54	
Ethylbenzene	<0.00202	0.101	0.116	115	0.119	118	70-130	3	35	mg/kg	03.22.18 06:54	
m,p-Xylenes	<0.00403	0.202	0.238	118	0.246	122	70-130	3	35	mg/kg	03.22.18 06:54	
o-Xylene	<0.00202	0.101	0.118	117	0.121	120	70-130	3	35	mg/kg	03.22.18 06:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		101		97		70-130	%	03.22.18 06:54
4-Bromofluorobenzene	88		104		103		70-130	%	03.22.18 06:54

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result
MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 579570

J R Oil Ltd.

Eaton B A C

Analytical Method: BTEX by EPA 8021B

Seq Number: 3044566

Parent Sample Id: 579570-001

Matrix: Soil

MS Sample Id: 579570-001 S

Prep Method: SW5030B

Date Prep: 03.22.18

MSD Sample Id: 579570-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.0992	98	70-130	4	35	mg/kg	03.22.18 12:28	
Toluene	<0.00200	0.100	0.0973	97	0.0951	94	70-130	2	35	mg/kg	03.22.18 12:28	
Ethylbenzene	<0.00200	0.100	0.0915	92	0.0872	86	70-130	5	35	mg/kg	03.22.18 12:28	
m,p-Xylenes	<0.00401	0.200	0.185	93	0.177	88	70-130	4	35	mg/kg	03.22.18 12:28	
o-Xylene	<0.00200	0.100	0.0944	94	0.0915	91	70-130	3	35	mg/kg	03.22.18 12:28	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		95		70-130	%	03.22.18 12:28
4-Bromofluorobenzene	110		105		70-130	%	03.22.18 12:28

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result
MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Serial #: 330866 Page of

Company-City: JR Oil Ltd - Hobbs, N.M. Phone: 575-340-1380

Project Name-Location: ☐ Previously done at XENCO Project ID: EATON BAC JAL N.M.

Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other: N.M. Proj. Manager (PM): Joe Tippy

E-mail Results to: ☐ PM and Fax No: Joe Tippy @ Valwoodnet.com

Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.

Bill to: JR Oil PO Box 29765 Hobbs N.M.

Quote/Pricing: P.O. No: 28241 ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Lab Only:

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Sample ID	Sampling Date	Time	Depth ft In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List (BTEX-MTBE EtOH Oxyg VOA's)	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Chloride	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Addn:	Date	Rev. by:	From:	Remarks				
1	Hobbs Sample #1	3/15/2018	3:00P	1'			1	2x2	40ml	No	✓																						
2	" 2	"	"	1'			1	"	"	"	✓																						
3	" 3	"	"	1'			1	"	"	"	✓																						
4																																	
5	Sidewalk #1	"	3:25P	4'			1	"	"	"										✓													
6	" #2	"	"	4'			1	"	"	"										✓													
7																																	
8																																	
9																																	
10																																	
Relinquished by (Initials and Sign)			Date & Time		Relinquished to (Initials and Sign)			Date & Time		Total Containers per COC:		Cooler Temp: 3.7 °C																					
1) J. Tippy			3/16/18 11:25		A. B. Smith			3/16/18 11:40		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO		until paid. Samples will be held 30 days after final report is e-mailed unless																					
2) (3)										hereby requested. R		Corrected if needed.																					
3) (5)																																	

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other Cont. Type: C

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco I subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client

Temp: 3.7 °C IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 3.7 °C

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: J R Oil Ltd.

Date/ Time Received: 03/19/2018 08:00:00 AM

Work Order #: 579570

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: _____
Connie Hernandez

Date: 03/19/2018

Checklist reviewed by: Holly Taylor
Holly Taylor

Date: 03/19/2018

2nd

Analytical Report 580659

for
J R Oil Ltd.

Project Manager: Joe Tippy

Eaton B AC

02-APR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)



Certificate of Analysis Summary 580659

J R Oil Ltd., Hobbs, NM

Project Name: Eaton B AC



Project Id:

Contact: Joe Tippy

Project Location: NM

Date Received in Lab: Wed Mar-28-18 03:08 pm

Report Date: 02-APR-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	580659-001	580659-002	580659-003	580659-004	580659-005	580659-006
	Field Id:	Sidewall #3	Sidewall #4	Sidewall #5	Sidewall #6	Sidewall #7	Sidewall #8
	Depth:	4- ft	4- ft	4- ft	2- ft	2- ft	2- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00
Chloride by EPA 300	Extracted:	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00
	Analyzed:	Mar-29-18 12:02	Mar-29-18 12:07	Mar-29-18 12:19	Mar-29-18 12:35	Mar-29-18 12:40	Mar-29-18 12:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		31.6 5.00	13.7 5.00	<4.99 4.99	1570 25.0	133 5.00	42.5 5.00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager



Certificate of Analysis Summary 580659

J R Oil Ltd., Hobbs, NM

Project Name: Eaton B AC



Project Id:

Contact: Joe Tippy

Project Location: NM

Date Received in Lab: Wed Mar-28-18 03:08 pm

Report Date: 02-APR-18

Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	580659-007	580659-008	580659-009	580659-010		
	<i>Field Id:</i>	Sidewall #9	Sidewall #10	Sidewall #11	Sidewall #12		
	<i>Depth:</i>	4- ft	4- ft	4- ft	4- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00	Mar-27-18 13:00		
Chloride by EPA 300	<i>Extracted:</i>	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00	Mar-29-18 10:00		
	<i>Analyzed:</i>	Mar-29-18 13:01	Mar-29-18 13:07	Mar-29-18 13:12	Mar-29-18 13:17		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		926 4.99	557 5.00	2170 25.0	1900 25.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager



02-APR-18

Project Manager: **Joe Tippy**

J R Oil Ltd.

PO Box 2975

Hobbs, NM 88241

Reference: XENCO Report No(s): **580659**

Eaton B AC

Project Address: NM

Joe Tippy:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 580659. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 580659 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sidewall #3	S	03-27-18 13:00	4 ft	580659-001
Sidewall #4	S	03-27-18 13:00	4 ft	580659-002
Sidewall #5	S	03-27-18 13:00	4 ft	580659-003
Sidewall #6	S	03-27-18 13:00	2 ft	580659-004
Sidewall #7	S	03-27-18 13:00	2 ft	580659-005
Sidewall #8	S	03-27-18 13:00	2 ft	580659-006
Sidewall #9	S	03-27-18 13:00	4 ft	580659-007
Sidewall #10	S	03-27-18 13:00	4 ft	580659-008
Sidewall #11	S	03-27-18 13:00	4 ft	580659-009
Sidewall #12	S	03-27-18 13:00	4 ft	580659-010



CASE NARRATIVE

Client Name: J R Oil Ltd.

Project Name: Eaton B AC

Project ID:

Work Order Number(s): 580659

Report Date: 02-APR-18

Date Received: 03/28/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: Sidewall #3

Lab Sample Id: 580659-001

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.6	5.00	mg/kg	03.29.18 12.02		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: Sidewall #4

Lab Sample Id: 580659-002

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	5.00	mg/kg	03.29.18 12.07		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #5**

Lab Sample Id: 580659-003

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	03.29.18 12.19	U	1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #6**

Lab Sample Id: 580659-004

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1570	25.0	mg/kg	03.29.18 12.35		5



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #7**

Lab Sample Id: 580659-005

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	133	5.00	mg/kg	03.29.18 12.40		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #8**

Lab Sample Id: 580659-006

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 2 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.5	5.00	mg/kg	03.29.18 12.56		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #9**

Lab Sample Id: 580659-007

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	926	4.99	mg/kg	03.29.18 13.01		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #10**

Lab Sample Id: 580659-008

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	557	5.00	mg/kg	03.29.18 13.07		1



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #11**

Lab Sample Id: 580659-009

Matrix: Soil

Date Collected: 03.27.18 13.00

Date Received: 03.28.18 15.08

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: OJS

Analyst: OJS

Seq Number: 3045226

Date Prep: 03.29.18 10.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2170	25.0	mg/kg	03.29.18 13.12		5



Certificate of Analytical Results 580659



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sidewall #12**

Matrix: Soil

Date Received: 03.28.18 15.08

Lab Sample Id: 580659-010

Date Collected: 03.27.18 13.00

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 03.29.18 10.00

Basis: Wet Weight

Seq Number: 3045226

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1900	25.0	mg/kg	03.29.18 13.17		5

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 580659

J R Oil Ltd.

Eaton B AC

Analytical Method: Chloride by EPA 300

Seq Number: 3045226

MB Sample Id: 7641709-1-BLK

Matrix: Solid

LCS Sample Id: 7641709-1-BKS

Prep Method: E300P

Date Prep: 03.29.18

LCSD Sample Id: 7641709-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	253	101	90-110	1	20	mg/kg	03.29.18 10:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3045226

Parent Sample Id: 580656-001

Matrix: Soil

MS Sample Id: 580656-001 S

Prep Method: E300P

Date Prep: 03.29.18

MSD Sample Id: 580656-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	172	250	427	102	427	102	90-110	0	20	mg/kg	03.29.18 11:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3045226

Parent Sample Id: 580659-003

Matrix: Soil

MS Sample Id: 580659-003 S

Prep Method: E300P

Date Prep: 03.29.18

MSD Sample Id: 580659-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	249	100	257	103	90-110	3	20	mg/kg	03.29.18 12:24	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

Serial #: 330964 Page of

Company-City: JR Oil Hobbs, N.M. Phone: 575-390-1380

Lab Only:

Project Name-Location: Eaten B AC. ☒ Previously done at XENCO Project ID: 51412

TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other: N.M. Proj. Manager (PM): Joe Tippy

E-mail Results to: ☒ PM and ☐ Other: Joe Tippy Fax No:

Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.
Bill to: JH Pay over phone

Quote/Pricing: P.O. No: ☐ Call for P.O.

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name: Joe Tippy Signature: Joe Tippy

VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs

VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:

PAHs SIM 8310 8270

TX-1005 DRO GRO MA EPH MA VPH

SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL

OC Pesticides PCBs Herbicides OP Pesticides

Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2

SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)

EDB / DBCP

Chlorides AS 62-400

Remarks

Sample Clean-ups are pre-approved as needed

Hold Samples (Surcharges will apply and are pre-approved)

Addn: PAH above mg/L W, mg/Kg S Highest Hit

TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d

Addn: Date Recv. by: From:

Sample ID	Sampling Date	Time	Depth ft In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	1	2	3	4	5	6	7	8	9	10
1 Sidewalk #3	3/21/10	12:30 PM	4'																	
2 #4	"	"	4'																	
3 #5	"	"	4'																	
4 #6	"	"	2'																	
5 #7	"	"	2'																	
6 #8	"	"	2'																	
7 #9	"	"	4'																	
8 #10	"	"	4'																	
9 #11	"	"	4'																	
10 #12	"	"	4'																	

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp:
1) [Signature]	3/21/10 3:40 PM	2) [Signature]	3/21/10 3:40 PM	6	35 °C
3) [Signature]	3/21/10 3:40 PM	4) [Signature]	3/21/10 3:40 PM		
5) [Signature]		6) [Signature]	3/21/10 3:40 PM		

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA). See Lab Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

Temp: 17.5 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 17.2



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: J R Oil Ltd.

Date/ Time Received: 03/28/2018 03:08:00 PM

Work Order #: 580659

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	17.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	No Sticky note on COC read " Customer said not on ice!- MS."
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 03/28/2018

Checklist reviewed by:

Holly Taylor

Date: 03/29/2018



Project Id:
Contact: Joe Tippy
Project Location: Hobbs, NM

Certificate of Analysis Summary 581874

J R Oil Ltd., Hobbs, NM
Project Name: Eaton B AC



Date Received in Lab: Tue Apr-10-18 11:30 am
Report Date: 13-APR-18
Project Manager: Holly Taylor

<i>Analysis Requested</i>	<i>Lab Id:</i>	581874-001	581874-002	581874-003			
	<i>Field Id:</i>	Sidewall #9 Sample #2	Sidewall #9 Sample #3	Sidewall #10 Sample #2			
	<i>Depth:</i>	4- ft	4- ft	4- ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Apr-09-18 14:00	Apr-09-18 14:00	Apr-09-18 14:00			
Chloride by EPA 300	<i>Extracted:</i>	Apr-11-18 17:30	Apr-11-18 17:30	Apr-11-18 17:30			
	<i>Analyzed:</i>	Apr-11-18 21:13	Apr-11-18 21:18	Apr-11-18 21:34			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		244 5.00	508 4.90	<4.98 4.98			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented.
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 581874

for
J R Oil Ltd.

Project Manager: Joe Tippy

Eaton B AC

13-APR-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



13-APR-18

Project Manager: **Joe Tippy**

J R Oil Ltd.

PO Box 2975

Hobbs, NM 88241

Reference: XENCO Report No(s): **581874**

Eaton B AC

Project Address: Hobbs, NM

Joe Tippy:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 581874. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 581874 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 581874



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sidewall #9 Sample #2	S	04-09-18 14:00	4 ft	581874-001
Sidewall #9 Sample #3	S	04-09-18 14:00	4 ft	581874-002
Sidewall #10 Sample #2	S	04-09-18 14:00	4 ft	581874-003



CASE NARRATIVE

Client Name: J R Oil Ltd.

Project Name: Eaton B AC

Project ID:

Work Order Number(s): 581874

Report Date: 13-APR-18

Date Received: 04/10/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 581874



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: Sidewall #9 Sample #2

Lab Sample Id: 581874-001

Matrix: Soil

Date Collected: 04.09.18 14.00

Date Received: 04.10.18 11.30

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3046421

Date Prep: 04.11.18 17.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	244	5.00	mg/kg	04.11.18 21.13		1



Certificate of Analytical Results 581874



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: Sidewall #9 Sample #3

Lab Sample Id: 581874-002

Matrix: Soil

Date Collected: 04.09.18 14.00

Date Received: 04.10.18 11.30

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3046421

Prep Method: E300P

% Moisture:

Date Prep: 04.11.18 17.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	508	4.90	mg/kg	04.11.18 21.18		1



Certificate of Analytical Results 581874



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: Sidewall #10 Sample #2

Lab Sample Id: 581874-003

Matrix: Soil

Date Collected: 04.09.18 14.00

Date Received: 04.10.18 11.30

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3046421

Date Prep: 04.11.18 17.30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	04.11.18 21.34	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 581874

J R Oil Ltd.

Eaton B AC

Analytical Method: Chloride by EPA 300

Seq Number: 3046421

MB Sample Id: 7642456-1-BLK

Matrix: Solid

LCS Sample Id: 7642456-1-BKS

Prep Method: E300P

Date Prep: 04.11.18

LCSD Sample Id: 7642456-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD	Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	237	95	246	98	90-110	4	20		mg/kg	04.11.18 20:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3046421

Parent Sample Id: 581958-005

Matrix: Soil

MS Sample Id: 581958-005 S

Prep Method: E300P

Date Prep: 04.11.18

MSD Sample Id: 581958-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD	Limit	Units	Analysis Date	Flag
Chloride	44.3	250	288	97	291	99	90-110	1	20		mg/kg	04.11.18 22:05	

Analytical Method: Chloride by EPA 300

Seq Number: 3046421

Parent Sample Id: 582043-010

Matrix: Soil

MS Sample Id: 582043-010 S

Prep Method: E300P

Date Prep: 04.11.18

MSD Sample Id: 582043-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD	Limit	Units	Analysis Date	Flag
Chloride	386	245	622	96	614	93	90-110	1	20		mg/kg	04.11.18 20:51	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result
MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD



☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

Serial #: 330875 Page of

Company-City JR. Oil 16563 N.M.		Phone 575-380-1380		Lab Only: 581874											
Project Name-Location Eaton B Ac		<input checked="" type="checkbox"/> Previously done at XENCO		Project ID		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.									
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM) Joe Tippy		Fax No:		<div style="display: flex; justify-content: space-between;"> <div> <p>VOA: Full-List BTEX-MTBE EtOH Oxyg VOAs</p> <p>VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:</p> <p>PAHs SIM 8310 8270</p> <p>TX-1005 DRO GRO MA EPH MA VPH</p> <p>SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL</p> <p>OC Pesticides PCBs Herbicides OP Pesticides</p> <p>Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2</p> <p>SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)</p> <p>EDB / DBCP</p> <p>Chlorides as before</p> </div> <div> <p>TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d</p> <p>Addn: PAH above mg/L W, mg/Kg S Highest Hit</p> <p>Hold Samples (Surcharges will apply and are pre-approved)</p> <p>Sample Clean-ups are pre-approved as needed</p> </div> </div>									
E-mail Results to <input type="checkbox"/> PM and <input checked="" type="checkbox"/> Joe Tippy @ JAT@brownet.com															
Invoice to <input type="checkbox"/> Accounting <input type="checkbox"/> Inc. Invoice with Final Report <input type="checkbox"/> Invoice must have a P.O.															
Bill to: Pay by Phone															
Quote/Pricing:		P.O. No:		<input type="checkbox"/> Call for P.O.											
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP															
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:															
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)															
Sampler Name Joe Tippy		Signature [Signature]													
Sample ID	Sampling Date	Time	Depth ft' in' m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives					
1 Sidewall #9 sample #2	4/9/18	2:00 PM	4'	6' West #2	South From original #9										
2 " 4 sample #3	"	"	4'	6' East #2	South " "										
3 Sidewall #10 sample #2	"	"	4'	6' East	From original #10										
4															
5															
6															
7															
8															
9															
10															
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC: Cooler Temp: °C							
1) [Signature]		4/9/18 4:30 PM		2) [Signature]		4/10/18 11:30		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fee if needed.							
2) [Signature]				4) [Signature]											
3) [Signature]				6) [Signature]											

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other Cont. 1

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed

Temp: 3.6 IR ID: R-8
 CF: (0-6: -0.2°C)
 (6-23: +0.2°C)
 Corrected Temp: 3.4

Various (V)
 ico.com



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: J R Oil Ltd.

Date/ Time Received: 04/10/2018 11:30:12 AM

Work Order #: 581874

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 04/10/2018

Checklist reviewed by:

Holly Taylor

Date: 04/11/2018



4th

Certificate of Analysis Summary 584163

J R Oil Ltd., Hobbs, NM

Project Name: Eaton B AC



Project Id:

Contact: Joe Tippy

Project Location:

Date Received in Lab: Sat Apr-28-18 09:30 am

Report Date: 03-MAY-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	584163-001					
	Field Id:	Sample Pt #9 #9-5					
	Depth:	4- ft					
	Matrix:	SOIL					
	Sampled:	Apr-27-18 12:00					
Chloride by EPA 300	Extracted:	May-01-18 17:00					
	Analyzed:	May-01-18 23:10					
	Units/RL:	mg/kg RL					
Chloride		104 5.00					

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor

Holly Taylor
Project Manager

Analytical Report 584163

for
J R Oil Ltd.

Project Manager: Joe Tippy

Eaton B AC

03-MAY-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-25), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)



03-MAY-18

Project Manager: **Joe Tippy**
J R Oil Ltd.
PO Box 2975
Hobbs, NM 88241

Reference: XENCO Report No(s): **584163**
Eaton B AC
Project Address:

Joe Tippy:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 584163. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 584163 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 584163



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample Pt #9 #9-5	S	04-27-18 12:00	4 ft	584163-001



CASE NARRATIVE

Client Name: J R Oil Ltd.

Project Name: Eaton B AC

Project ID:

Work Order Number(s): 584163

Report Date: 03-MAY-18

Date Received: 04/28/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 584163



J R Oil Ltd., Hobbs, NM

Eaton B AC

Sample Id: **Sample Pt #9 #9-5**

Lab Sample Id: 584163-001

Matrix: Soil

Date Collected: 04.27.18 12.00

Date Received: 04.28.18 09.30

Sample Depth: 4 ft

Analytical Method: Chloride by EPA 300

Tech: SCM

Analyst: SCM

Seq Number: 3048599

Date Prep: 05.01.18 17.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	5.00	mg/kg	05.01.18 23.10		1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 584163

J R Oil Ltd.

Eaton B AC

Analytical Method: Chloride by EPA 300

Seq Number: 3048599

MB Sample Id: 7643820-1-BLK

Matrix: Solid

LCS Sample Id: 7643820-1-BKS

Prep Method: E300P

Date Prep: 05.01.18

LCSD Sample Id: 7643820-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	258	103	263	105	90-110	2	20	mg/kg	05.01.18 21:10	

Analytical Method: Chloride by EPA 300

Seq Number: 3048599

Parent Sample Id: 584070-003

Matrix: Soil

MS Sample Id: 584070-003 S

Prep Method: E300P

Date Prep: 05.01.18

MSD Sample Id: 584070-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	267	107	269	108	90-110	1	20	mg/kg	05.01.18 22:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3048599

Parent Sample Id: 584082-013

Matrix: Soil

MS Sample Id: 584082-013 S

Prep Method: E300P

Date Prep: 05.01.18

MSD Sample Id: 584082-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	295	118	261	105	90-110	12	20	mg/kg	05.01.18 21:28	X

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

Serial #: 330861 Page of

Company-City JR Oil Hobbs N.M.		Phone 575-390-1380		Lab Only:		584163	
Project Name-Location Eaton B AC		<input checked="" type="checkbox"/> Previously done at XENCO		Project ID		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM) Joe Tippy		E-mail Results to joe.tippy@verizon.net.com		Fax No:	
Invoice to <input type="checkbox"/> Accounting <input type="checkbox"/> Inc. Invoice with Final Report <input type="checkbox"/> Invoice must have a P.O.		Bill to: Pay by Phone		Quote/Pricing:		P.O. No: <input type="checkbox"/> Call for P.O.	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP							
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:							
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)							
Sampler Name Joe Tippy		Signature					
Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers
Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EIOH Oxyg VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHS SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL
							OC Pesticides PCBs Herbicides OP Pesticides
							Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2
							SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)
							EDB / DBCP
							Chlorides as before
							2 Sealed Free Sample
							4-4
							TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d
							Addn: PAH above mg/L W, mg/Kg S Highest Hit
							Hold Samples (Surcharges will apply and are pre-approved)
							Sample Clean-ups are pre-approved as needed
							Addn: Date Rcv. by: From:
1	Sample #9						
2	# 9-5	4/27/2012	12:20 PM	4'		1	
3							
4							
5							
6							
7							
8							
9							
10							
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time	
1) Joe Tippy		4/27/12 2:33 PM		2) G. Espinoza		2:31 4/27/12	
3)				4) J. Hines		4:30 4/27/12	
5)				6)			
Total Containers per COC:		Cooler Temp: °C		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.			

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4°C) (C), None (NA), S
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type:

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed

Temp: 5.9 IR ID: R-8
 CF: (0-6: -0.2°C)
 (6-23: +0.2°C)
 Corrected Temp: 5.7



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: J R Oil Ltd.

Date/ Time Received: 04/28/2018 09:30:00 AM

Work Order #: 584163

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6* Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	No
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

COC did not have a signature for relinquished by

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Katie Lowe

Date: 04/30/2018

Checklist reviewed by:

Holly Taylor

Date: 04/30/2018