

Closure Report

Site Description

Site Name:	Lotos Federal #4 Battery
Company:	Chevron USA
Legal Description:	U/L J, Section 9, T24S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.23100° W 103.78130°

Release Data

Date of Release:	12/10/2015
Type of Release:	Oil and produced water
Source of Release:	Test Separator overflow due to dump valve failure
Volume of Release:	0.9 bbl oil, 15 bbls produced water
Volume Recovered:	0.75 bbl oil, 14.5 bbls produced water

Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	06/07/2016 to 06/23/2016	
Plan Sent to OCD:	06/01/2016	Meeting/ Cliff Brunson and Mike Bratcher
OCD Approval of Plan:	06/01/2016	Meeting/ Cliff Brunson and Mike Bratcher
Plan Sent to BLM:	06/01/2016	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	06/01/2016	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 12/17/2015
Final C-141	Signed 07/15/2016
Site Diagram	January 2016
Groundwater Plot	225'
TOPO Maps	January 2016
Lab Summary	03/21/2016
Lab Analysis	03/21/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

07/20/2016

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 87505

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.

Release Notification and Corrective Action

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company	Chevron USA	Contact	Stephen Gwin
Address	1616 W. Bender Blvd, Hobbs, NM 88240	Telephone No.	575-408-0073
Facility Name	Lotus Federal #4 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-27593

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	9	24S	31E	2310	South	2310	East	Eddy County, NM

Latitude N 32.23087° Longitude W 103.78120°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	0.9 bbls oil, 15 bbls produced water	Volume Recovered	0.75 bbls oil, 14.5 bbls produced water
Source of Release	Test separator overflow due to dump valve failure	Date and Hour of Occurrence	12/10/2015 @ 10:00 am	Date and Hour of Discovery	12/10/2015 @ 10:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
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.*


Describe Cause of Problem and Remedial Action Taken.*

A dump valve failure caused a test separator to overflow and leak 0.9 bbls of oil and 15 bbls of produced water onto the ground inside the berm. A vacuum truck recovered 0.75 bbls oil and 14.5 bbls produced water. The valve was reset/replaced.

Describe Area Affected and Cleanup Action Taken.*

The areas affected were approximately 35' x 11' inside the berm on location and an additional overspray area measuring approximately 19' x 11' on the north side of the battery. Remediation will be completed in accordance with the remediation plan approved by NMOCD and the BLM.

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: 	Approved by Environmental Specialist:
Printed Name: Stephen Gwin	Approval Date:
Title: HES Specialist	Expiration Date:
E-mail Address: Stephen.gwin@chevron.com	Conditions of Approval:
Date: <u>12/17/2015</u> Phone: 575-408-0073	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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.
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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	Chevron USA	Contact	Stephen Gwin
Address	1616 W. Bender Blvd, Hobbs, NM 88240	Telephone No.	575-408-0073
Facility Name	Lotus Federal #4 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-27593

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	9	24S	31E	2310	South	2310	East	Eddy County, NM

Latitude N 32.23087° Longitude W 103.78120°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	0.9 bbls oil, 15 bbls produced water	Volume Recovered	0.75 bbls oil, 14.5 bbls produced water
Source of Release	Test separator overflow due to dump valve failure	Date and Hour of Occurrence	12/10/2015 @ 10:00 am	Date and Hour of Discovery	12/10/2015 @ 10:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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Describe Cause of Problem and Remedial Action Taken.*

A dump valve failure caused a test separator to overflow and leak 0.9 bbls of oil and 15 bbls of produced water onto the ground inside the berm. A vacuum truck recovered 0.75 bbls oil and 14.5 bbls produced water. The valve was reset/replaced.

Describe Area Affected and Cleanup Action Taken.*

The areas affected were approximately 35' x 11' inside the berm on location and an additional overspray area measuring approximately 19' x 11' on the north side of the battery. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD and approved by Shelly Tucker of the BLM via email on 06/01/2016.

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.

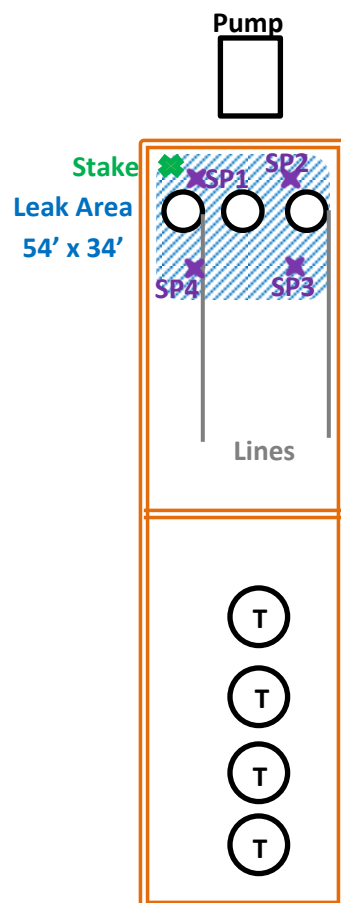
Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Stephen Gwin	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Stephen.gwin@chevron.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7/15/2016	Phone: 575-408-0073		

* Attach Additional Sheets If Necessary



Chevron
Lotos Federal #4 Battery

Road



1' Excavation, then deferral

U/L J, Section 9, T24S, R31E

Eddy County, NM

N 32.23100° W 103.78130°

API# 30-015-27593

BBC International, Inc.

Chevron
Lotos Federal #4 Battery

Date: 01/11/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Chevron 2015



Groundwater Plot

Chevron Lotos Federal #4 Battery

County
Eddy

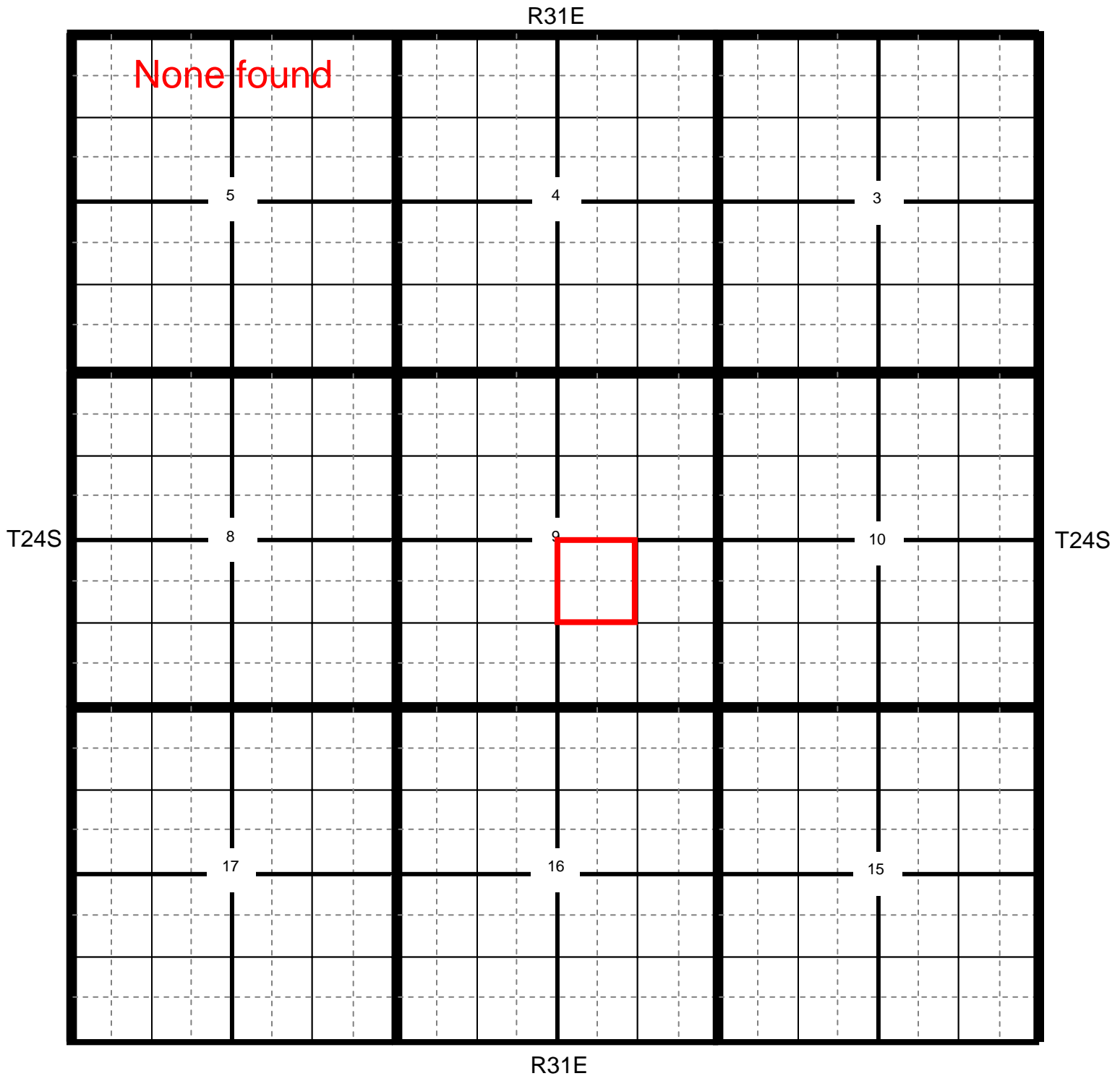
Unit Letter
J

Section
9

Township
24S

Range
31E

Trend Map 225'



Location

OCD

USGS

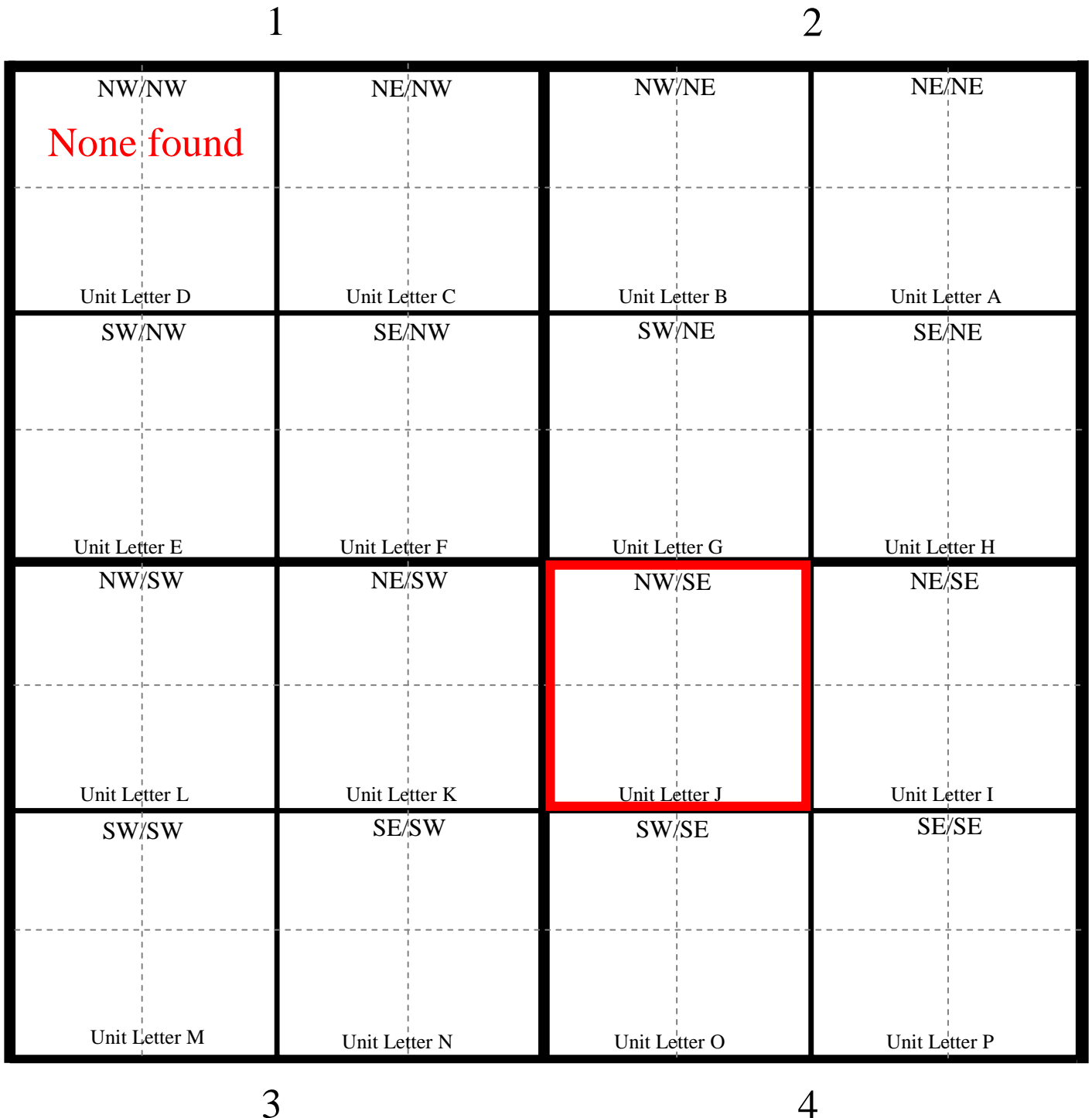
SEO

All Databases

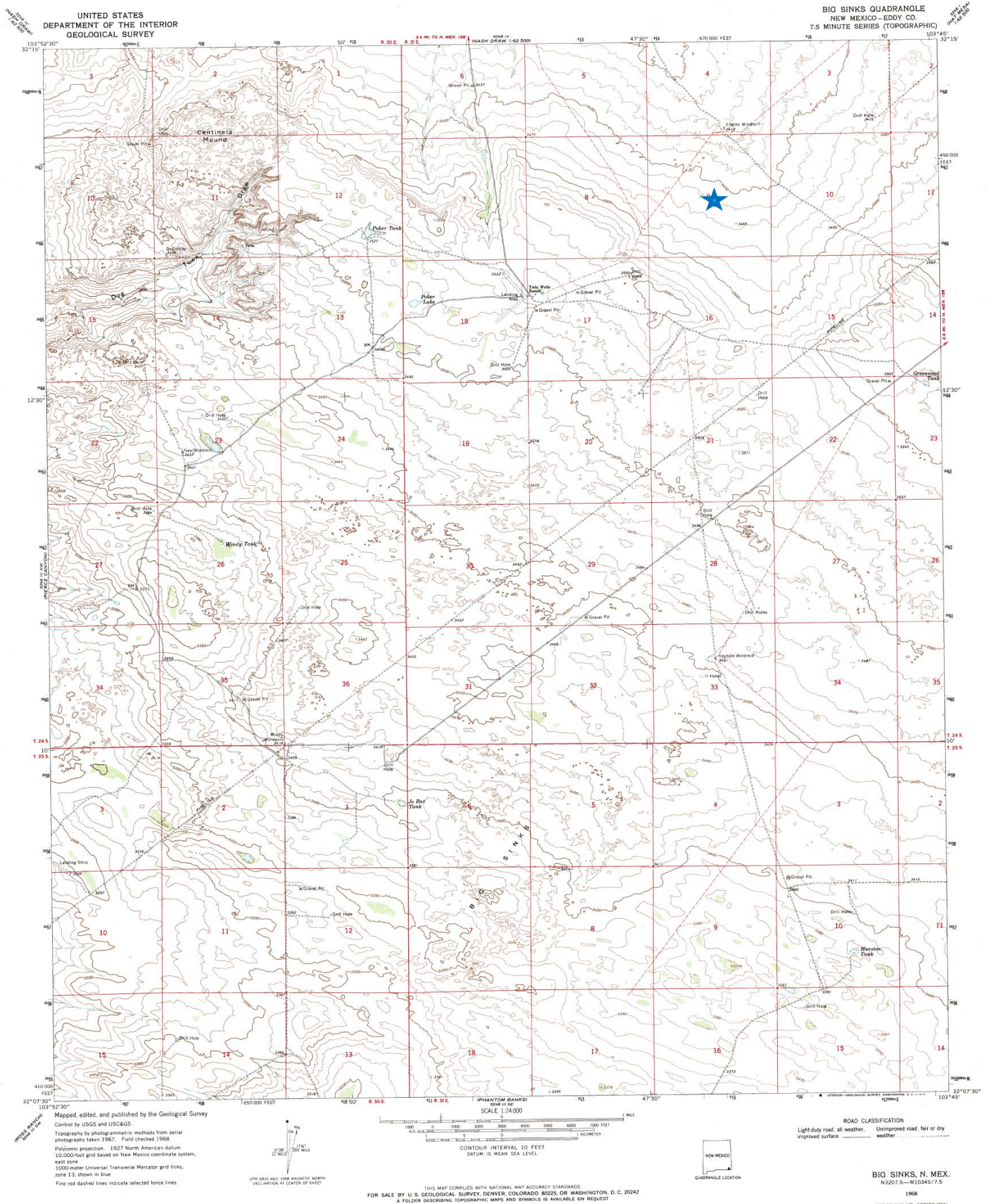
Chevron Lotos Federal #4 Battery

County Eddy **Unit Letter** J **Section** 9 **Township** 24S **Range** 31E

Trend Map 225'

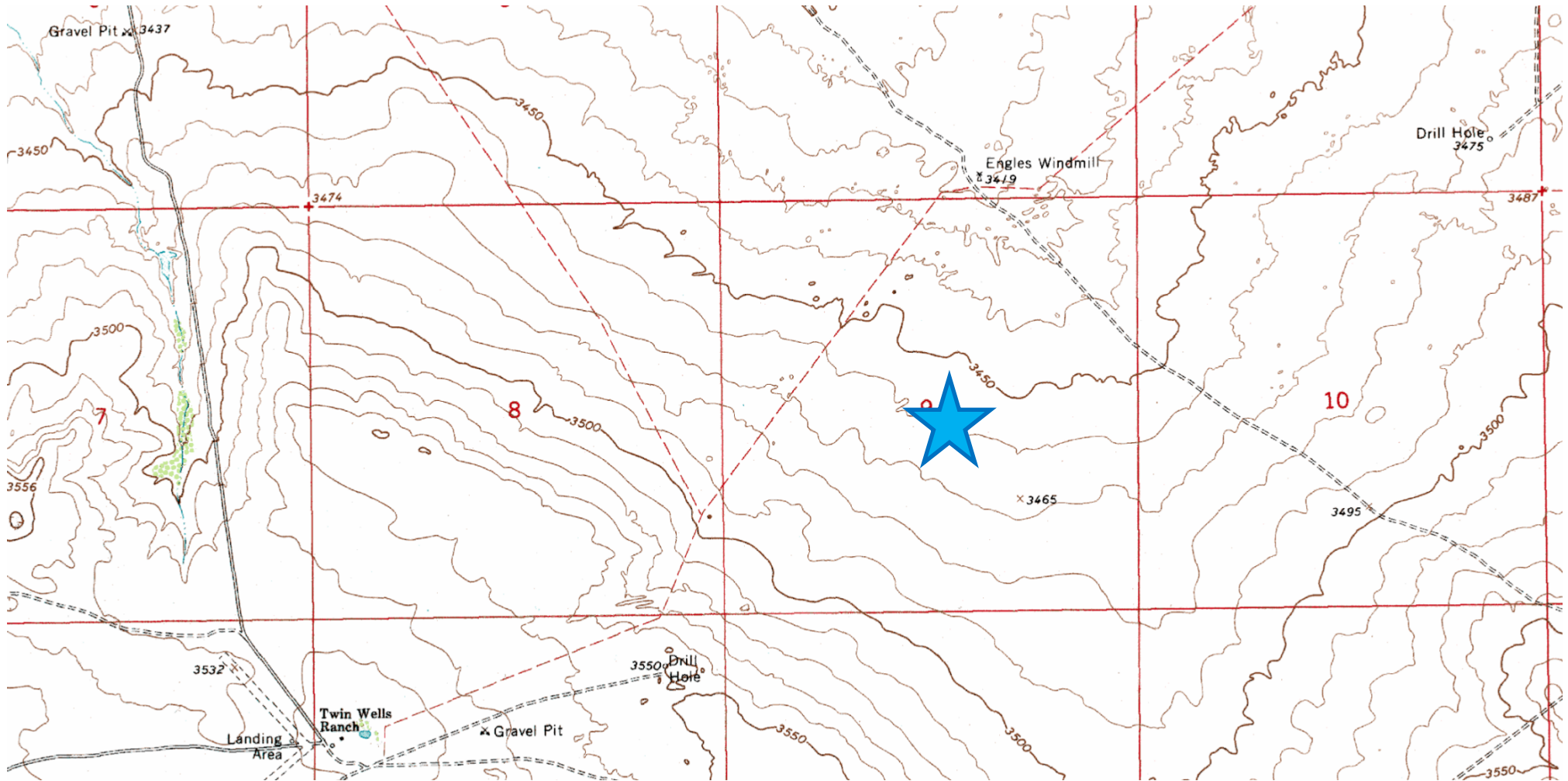


Lotos Federal #4 Battery



Chevron

Lotos Federal #4 Battery



Laboratory Analytical Results Summary
Chevron, Lotos Federal #4 Battery

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/21/16	3/21/16	3/21/16	3/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1220	2800	3200	1540
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		41.3	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/21/16	3/21/16	3/21/16	3/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1220	3360	2760	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.4	74.2	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/21/16	3/21/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		480	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	112

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	3/21/16	3/21/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		512	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	14.3



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 31, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOTOS FED #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H600628-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTEX	<0.300	0.300	03/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	41.3	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H600628-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTX	<0.300	0.300	03/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H600628-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2016	ND	2.00	99.9	2.00	3.95	
Toluene*	<0.050	0.050	03/24/2016	ND	1.93	96.5	2.00	4.58	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.71	85.6	2.00	5.45	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.26	87.7	6.00	5.58	
Total BTX	<0.300	0.300	03/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 123 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H600628-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H600628-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	15.4	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H600628-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	74.2	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

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BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H600628-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/24/2016	ND	368	92.0	400	8.33	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 4' (H600628-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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Analytical Results For:

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H600628-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	194	96.8	200	2.99	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	17.4	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H600628-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	112	10.0	03/28/2016	ND	160	79.9	200	4.90	QM-07, QR-03

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H600628-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/24/2016	ND	200	99.8	200	7.50	

Surrogate: 1-Chlorooctane 57.2 % 35-147

Surrogate: 1-Chlorooctadecane 63.8 % 28-171

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	LOTOS FED #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H600628-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2016	ND	1.99	99.4	2.00	0.600	
Toluene*	<0.050	0.050	03/28/2016	ND	1.90	95.0	2.00	0.817	
Ethylbenzene*	<0.050	0.050	03/28/2016	ND	1.68	84.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	03/28/2016	ND	5.26	87.7	6.00	0.288	
Total BTX	<0.300	0.300	03/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/24/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	14.3	10.0	03/24/2016	ND	200	99.8	200	7.50	

Surrogate: 1-Chlorooctane 89.8 % 35-147

Surrogate: 1-Chlorooctadecane 95.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

Address: P.O. Box 805
City: Hobbs
State: NM Zip: 88241

Phone #: 575-397-6388
Fax #: 575-397-0397

Project #:
Project Name: Lots Fed #1 Bry

Project Location:
Project Owner: Chevron

Sampler Name: Five Brunson

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Matrix

GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:

ACID/BASE:
ICE / COOL
OTHER:

DATE
TIME

TPH
BTEX
CL

ANALYSIS REQUEST

Relinquished By:

Received By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#54

From: [Tucker, Shelly](#)
To: [Cliff Brunson](#)
Cc: [Stephen Gwin](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: Re: Chevron-Lotos Federal #4 Battery
Date: Wednesday, June 1, 2016 12:40:40 PM

BLM concurs with the NMOCD and accept/approves your proposed work plan.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

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stucker@blm.gov



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Jun 1, 2016 at 10:41 AM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Shelly,

Attached is the remediation plan for the Chevron Lotos Federal #4 Battery release. As we

discussed, Mike Bratcher has approved this plan to excavate 1 foot then place this battery on deferral.

If you would please email your concurrence, it would be greatly appreciated. If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

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