

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

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	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	McKittrick Hills Central Tank Battery	Facility Type	Battery

Surface Owner	BLM	Mineral Owner		API No.	30-015-21010
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	14	22S	24E					Eddy County, NM

Latitude N 32.39755° Longitude W 104.46109°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	20 bbls oil, 160 bbls produced water	Volume Recovered	160 bbls
Source of Release	Lack of alarms to warn of a tank overflow	Date and Hour of Occurrence	12/09/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Shelly Tucker-BLM		
By Whom?	Cliff Brunson @ BBC International	Date and Hour	12/10/2015 @ 5:00 pm		
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.*

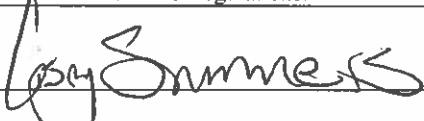
Describe Cause of Problem and Remedial Action Taken.*

Lack of alarms caused a tank to overflow spilling 20 bbls of oil and 160 bbls of produced water onto the ground. A vacuum truck recovered 160 bbls of fluids and the alarm issue was corrected.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 50' on location. Remediation will be completed in accordance with a remediation plan approved by both 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.

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/30/15 Phone: (575) 513-8289			

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	McKittrick Hills Central Tank Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-21010

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	14	22S	24E					Eddy County, NM

Latitude N 32.39755° Longitude W 104.46109°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	20 bbls oil, 160 bbls produced water	Volume Recovered	160 bbls
Source of Release	Lack of alarms to warn of a tank overfill	Date and Hour of Occurrence	12/09/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Shelly Tucker-BLM		
By Whom?	Cliff Brunson @ BBC International	Date and Hour	12/10/2015 @ 5:00 pm		
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.*

Lack of alarms caused a tank to overfill spilling 20 bbls of oil and 160 bbls of produced water onto the ground. A vacuum truck recovered 160 bbls of fluids and the alarm issue was corrected.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 50' on location. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 04/28/2016 and by Shelly Tucker of the BLM via email on 05/03/2016.

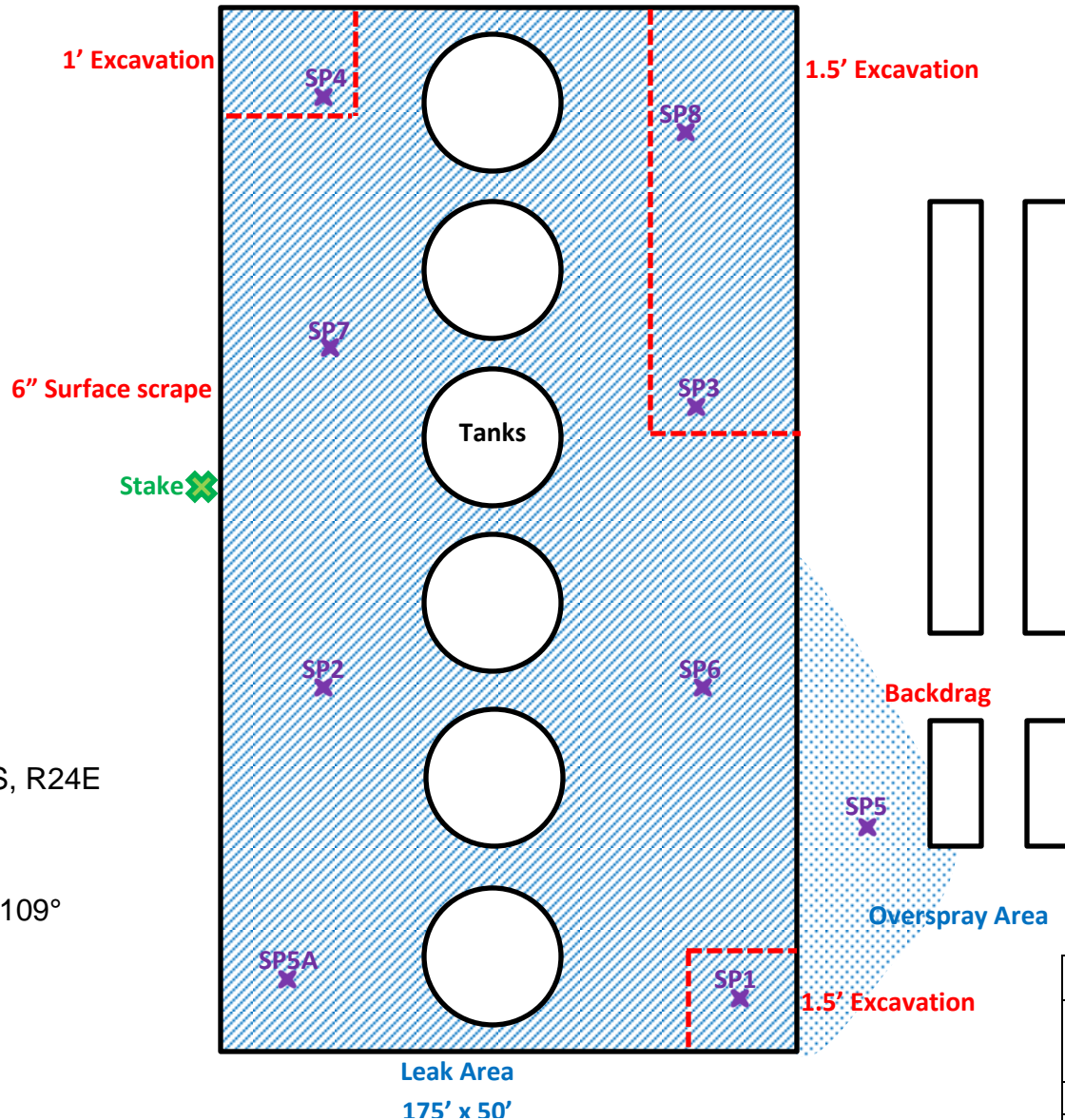
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7-26-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



Oxy
McKittrick Hills CTB



U/L A, Section 14, T22S, R24E
Eddy County, NM
N 32.39755° W 104.46109°
API#30-015-21010

BBC International, Inc.	
Oxy McKittrick Hills CTB	
Date: 01/08/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015



Groundwater Plot

Oxy McKittrick Hills CTB

County
Eddy

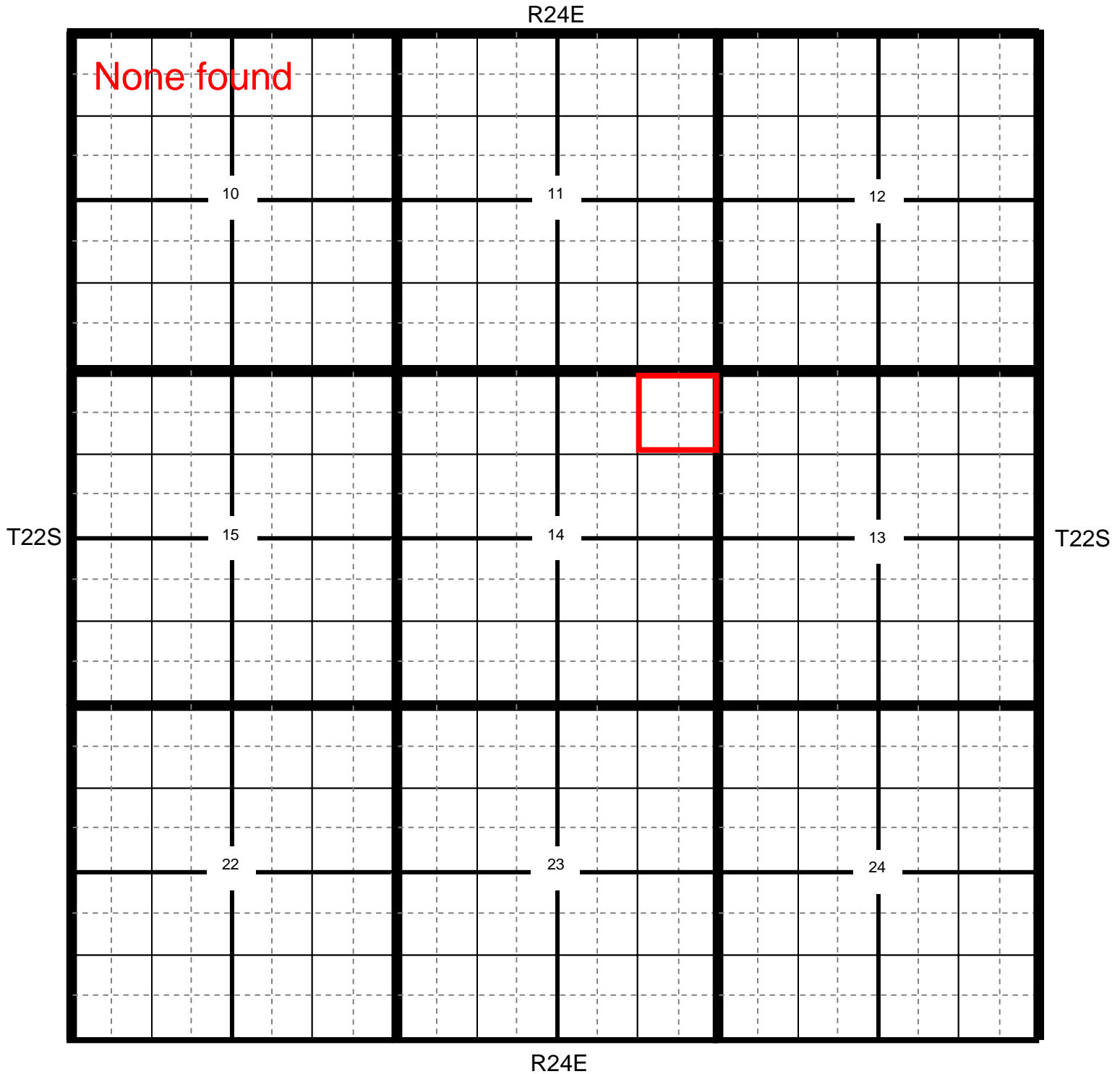
Unit Letter
A

Section
14

Township
22S

Range
24E

Trend Map 100'-125'



📍 Location

● OCD

● USGS

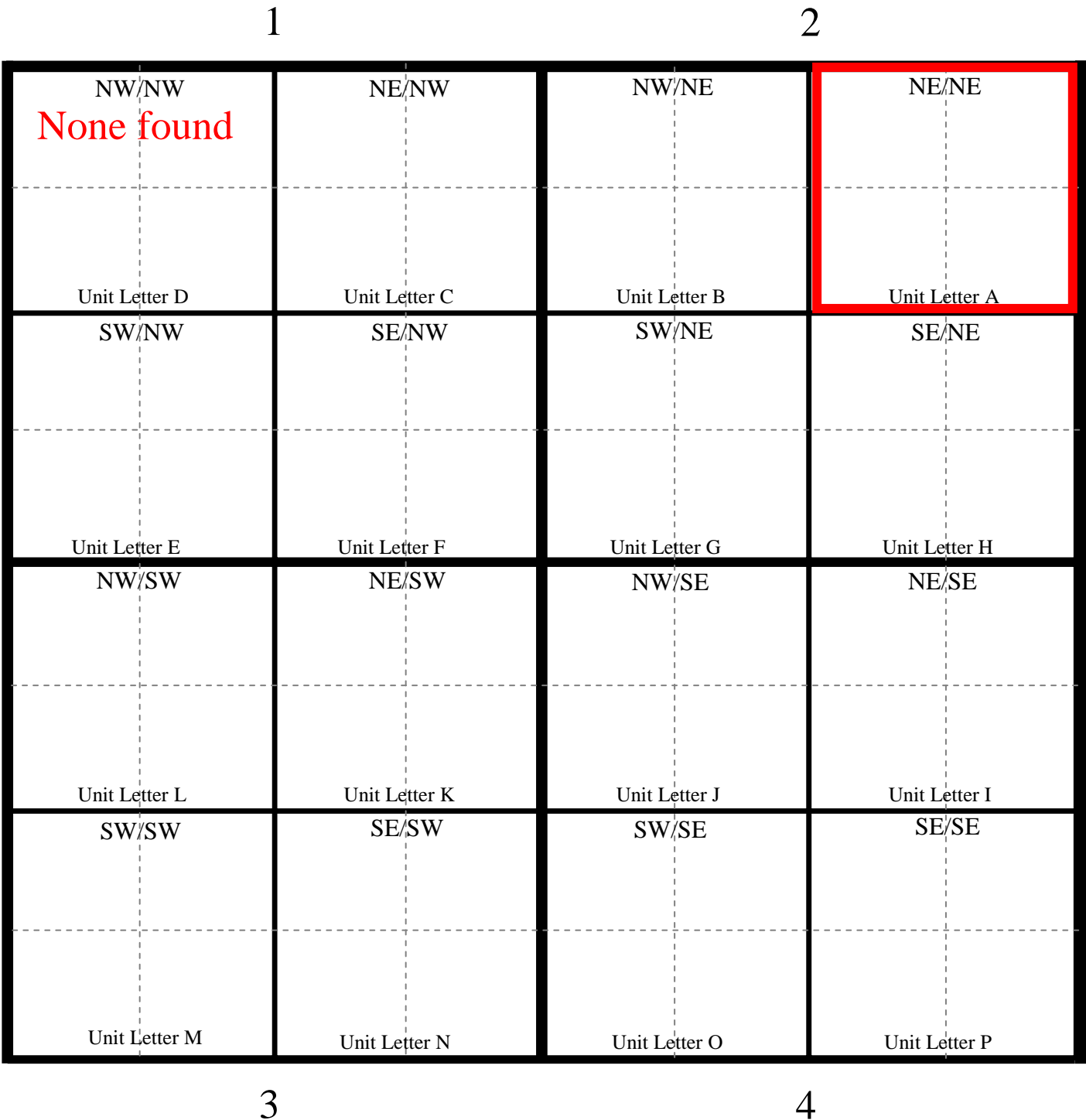
● SEO

● All Databases

Oxy McKittrick Hills CTB

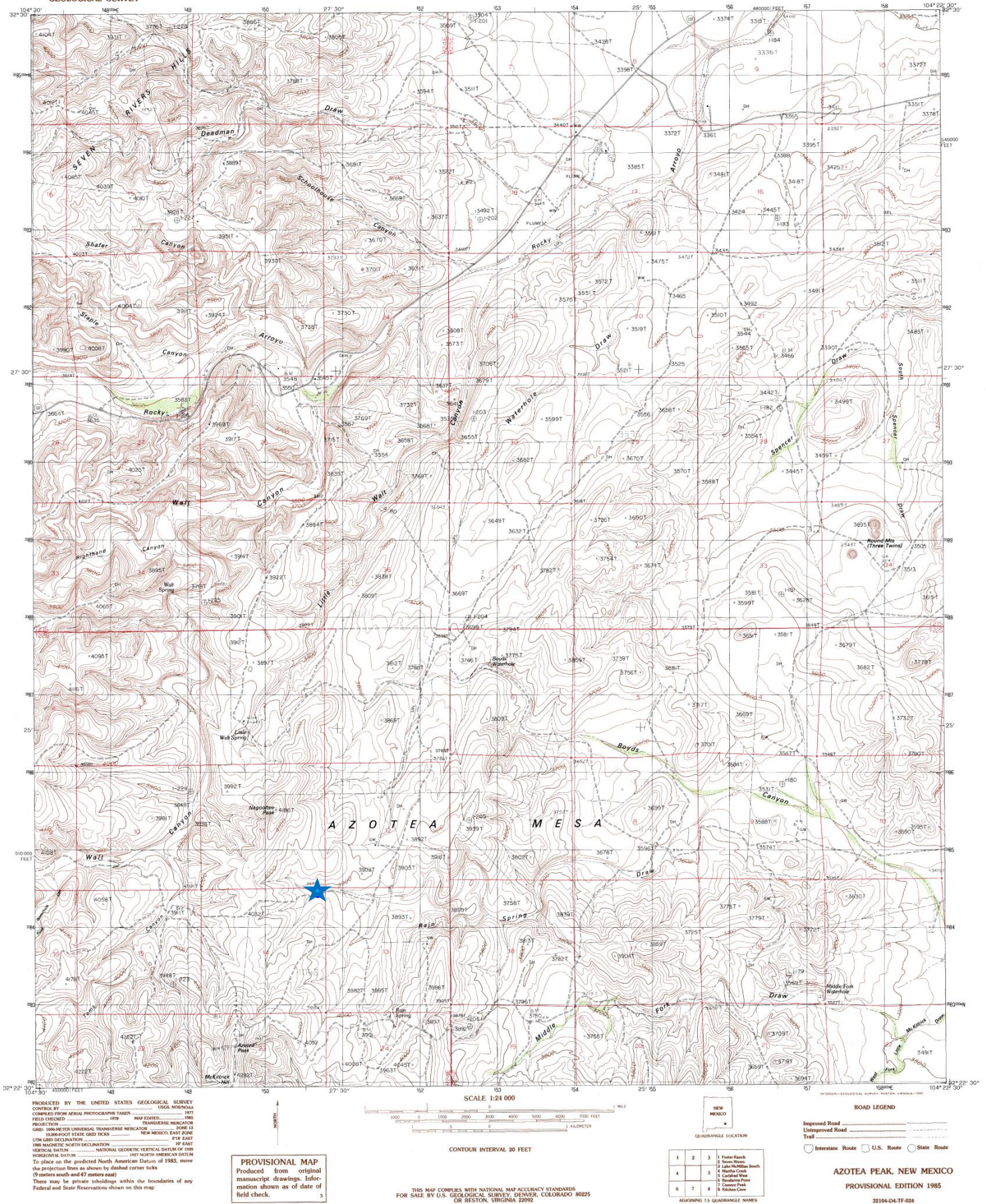
County Eddy	Unit Letter A	Section 14	Township 22S	Range 24E
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Trend Map 100'-125'

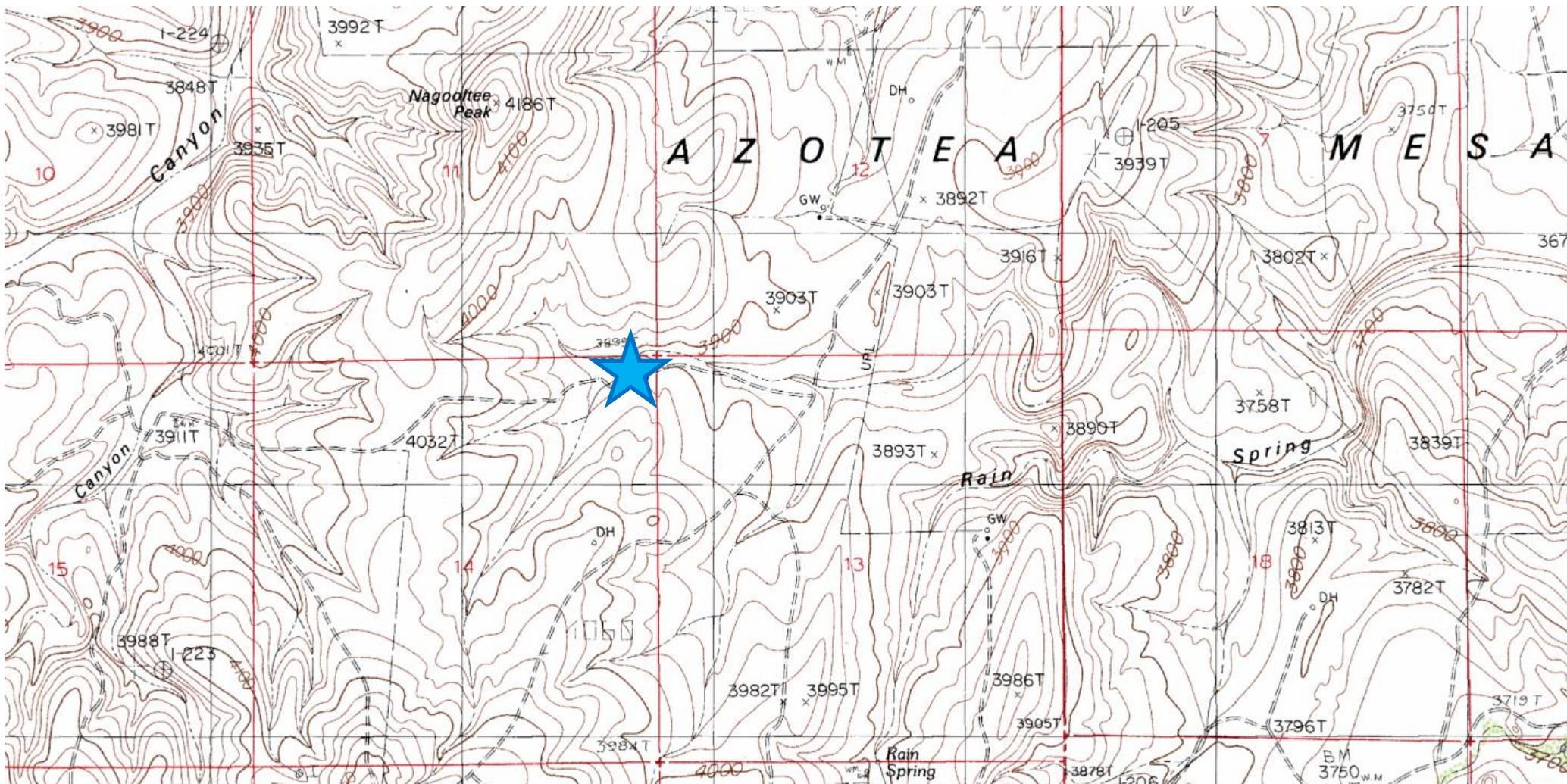


Oxy

AZOTEA PEAK QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Oxy



**Laboratory Analytical Results Summary
McKittrick Hills CTB**

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	2/2/16	2/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		<2.00	<0.050
Ethylbenzene	BTEX 8021B		2.51	<0.050
Total Xylenes	BTEX 8021B		13.3	<0.150
Total BTEX	BTEX 8021B		15.8	<0.300
Chloride	SM4500Cl-B		80	32
GRO	TPH 8015M		3650	<10.0
DRO	TPH 8015M		27000	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	2/2/16	2/4/16
			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		144	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		118	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	2/2/16	2/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		2.05	<0.050
Ethylbenzene	BTEX 8021B		3.43	<0.050
Total Xylenes	BTEX 8021B		30.8	<0.150
Total BTEX	BTEX 8021B		36.3	<0.300
Chloride	SM4500Cl-B		128	<16.0
GRO	TPH 8015M		2890	<10.0
DRO	TPH 8015M		14200	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	2/2/16	2/4/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		0.424	<0.050
Ethylbenzene	BTEX 8021B		1.27	<0.050
Total Xylenes	BTEX 8021B		7.58	<0.150
Total BTEX	BTEX 8021B		9.27	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0
GRO	TPH 8015M		526	<10.0
DRO	TPH 8015M		4510	<10.0

		Sample	SP5 @ 1'
Analyte	Method	Date	2/2/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		2070

		Sample	SP5A @ 1'	SP5A @ 2'
Analyte	Method	Date	3/15/16	3/15/16
			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		48	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		72	10.9

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	3/15/16	3/15/16
			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		96	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		79.6	<10.0

		Sample	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	3/16/16	3/16/16
			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		144	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		56.1	<10.0

		Sample	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	3/16/16	3/16/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050
Toluene	BTEX 8021B		<0.500	<0.050
Ethylbenzene	BTEX 8021B		<0.500	<0.050
Total Xylenes	BTEX 8021B		9.76	0.321
Total BTEX	BTEX 8021B		9.76	0.321
Chloride	SM4500Cl-B		64	<16.0
GRO	TPH 8015M		820	11.9
DRO	TPH 8015M		9070	86.1



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

February 14, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK HILLS CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/09/16 8:40.

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:	02/09/2016	Sampling Date:	02/02/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 1 @ 1' (H600283-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<2.00	2.00	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	2.51	2.00	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	13.3	6.00	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	15.8	12.0	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	80.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3650	200	02/10/2016	ND	221	110	200	2.06		
DRO >C10-C28	27000	200	02/10/2016	ND	207	103	200	2.26		

Surrogate: 1-Chlorooctane 275 % 35-147

Surrogate: 1-Chlorooctadecane 752 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	02/09/2016	Sampling Date:	02/04/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 1 @ 2' (H600283-02)

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	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	<0.300	0.300	02/11/2016	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	32.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 84.2 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 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:	02/09/2016	Sampling Date:	02/02/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 2 @ 1' (H600283-03)

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	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	<0.300	0.300	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	118	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 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:	02/09/2016	Sampling Date:	02/04/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 2 @ 2' (H600283-04)

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	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	<0.300	0.300	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 86.3 % 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:	02/09/2016	Sampling Date:	02/02/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 3 @ 1' (H600283-05)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	2.05	2.00	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	3.43	2.00	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	30.8	6.00	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	36.3	12.0	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	128	16.0	02/11/2016	ND	432	108	400	3.77	
TPH 8015M									S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2890	100	02/11/2016	ND	221	110	200	2.06	
DRO >C10-C28	14200	100	02/11/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 241 % 35-147

Surrogate: 1-Chlorooctadecane 326 % 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:	02/09/2016	Sampling Date:	02/04/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 3 @ 2' (H600283-06)

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	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	<0.300	0.300	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 74.5 % 35-147

Surrogate: 1-Chlorooctadecane 81.2 % 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:	02/09/2016	Sampling Date:	02/02/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 4 @ 1' (H600283-07)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	0.424	0.200	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	1.27	0.200	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	7.58	0.600	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	9.27	1.20	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	<16.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	526	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	4510	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 138 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 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:	02/09/2016	Sampling Date:	02/04/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 4 @ 2' (H600283-08)

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	02/11/2016	ND	2.10	105	2.00	2.38	
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49	
Total BTX	<0.300	0.300	02/11/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 68.6 % 35-147

Surrogate: 1-Chlorooctadecane 77.1 % 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:	02/09/2016	Sampling Date:	02/02/2016
Reported:	02/14/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 5 @ 1' (H600283-09)

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	02/11/2016	ND	2.10	105	2.00	2.38		
Toluene*	<0.050	0.050	02/11/2016	ND	2.08	104	2.00	2.62		
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.90	95.0	2.00	2.16		
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.71	95.2	6.00	2.49		
Total BTX	<0.300	0.300	02/11/2016	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	64.0	16.0	02/11/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	221	110	200	2.06	
DRO >C10-C28	2070	10.0	02/10/2016	ND	207	103	200	2.26	

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 138 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: McKittrick Hills

Project Location: Jackson Hills

Sample Name: Jeff Campbell

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H0002843

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1	SP 181	(C)	1			X				2-2	930	X	X	X							
2	SP 201	(C)	1			X				2-2	949	X	X	X							
3	SP 202	(C)	1			X				2-2	1045	X	X	X							
4	SP 301	(C)	1			X				2-2	1129	X	X	X							
5	SP 401	(C)	1			X				2-2	1200	X	X	X							
6	SP 402	(C)	1			X				2-2	1215	X	X	X							
7	SP 501	(C)	1			X				2-2	111	X	X	X							
8	SP 502	(C)	1			X				2-2	123	X	X	X							

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Relinquished By:

Date: 8-16-01

Received By:

Relinquished By:

Date: 8-16-01

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:

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

#54

March 24, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK HILLS CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/18/16 10:55.

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,



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:	03/18/2016	Sampling Date:	03/15/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 5 @ 1' (H600598-01)

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	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTX	<0.300	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	03/21/2016	ND	432	108	400	11.8	

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	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	72.0	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 95.5 % 35-147

Surrogate: 1-Chlorooctadecane 95.5 % 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:	03/18/2016	Sampling Date:	03/15/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 5 @ 2' (H600598-02)

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	03/21/2016	ND	2.17	109	2.00	8.02		
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09		
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35		
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33		
Total BTX	<0.300	0.300	03/21/2016	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	<16.0	16.0	03/21/2016	ND	432	108	400	11.8		

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	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	10.9	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 74.2 % 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:	03/18/2016	Sampling Date:	03/15/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 6 @ 1' (H600598-03)

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	03/21/2016	ND	2.17	109	2.00	8.02		
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09		
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35		
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33		
Total BTX	<0.300	0.300	03/21/2016	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	96.0	16.0	03/21/2016	ND	432	108	400	11.8	

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	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	79.6	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 93.5 % 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:	03/18/2016	Sampling Date:	03/15/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 6 @ 2' (H600598-04)

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	03/21/2016	ND	2.17	109	2.00	8.02		
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09		
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35		
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33		
Total BTX	<0.300	0.300	03/21/2016	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	<16.0	16.0	03/21/2016	ND	432	108	400	11.8		

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	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	<10.0	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 89.2 % 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:	03/18/2016	Sampling Date:	03/16/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 7 @ 1' (H600598-05)

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	03/21/2016	ND	2.17	109	2.00	8.02	
Toluene*	<0.050	0.050	03/21/2016	ND	2.09	104	2.00	8.09	
Ethylbenzene*	<0.050	0.050	03/21/2016	ND	1.87	93.6	2.00	9.35	
Total Xylenes*	<0.150	0.150	03/21/2016	ND	5.76	96.0	6.00	8.33	
Total BTX	<0.300	0.300	03/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	144	16.0	03/21/2016	ND	432	108	400	11.8		

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	03/18/2016	ND	177	88.7	200	0.503	
DRO >C10-C28	56.1	10.0	03/18/2016	ND	178	89.2	200	0.477	

Surrogate: 1-Chlorooctane 84.5 % 35-147

Surrogate: 1-Chlorooctadecane 81.4 % 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:	03/18/2016	Sampling Date:	03/16/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 7 @ 2' (H600598-06)

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	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTX	<0.300	0.300	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	03/21/2016	ND	432	108	400	11.8		

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	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	<10.0	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 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:	03/18/2016	Sampling Date:	03/16/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 8 @ 1' (H600598-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.500	0.500	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.500	0.500	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	9.76	1.50	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	9.76	3.00	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	64.0	16.0	03/21/2016	ND	432	108	400	11.8	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	820	10.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	9070	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 205 % 35-147

Surrogate: 1-Chlorooctadecane 242 % 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:	03/18/2016	Sampling Date:	03/16/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN HILLS		

Sample ID: SP 8 @ 2' (H600598-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	0.321	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	0.321	0.300	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	<16.0	16.0	03/21/2016	ND	432	108	400	11.8	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.9	10.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	86.1	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 79.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, April 28, 2016 3:45 PM
To: Cliff Brunson
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Tucker, Shelly
Subject: RE: OXY - McKittrick Hills CTB - Remediation Plan & ATTN: Casey
Attachments: McKittrick Hills CTB 3.12.2016.pdf; _Certification_.htm

RE: OXY USA * McKittrick Hills CTB * **2RP-3471** * DOR: 12/9/15
API Number for documentation: 30-015-21012

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites will require like approval from BLM.

ATTN CASEY: Please see the attached Google Earth image. Imagery date is 3/12/16, and shows what appears to be another release just off of the NW corner of the pad. Please advise.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, April 21, 2016 7:59 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - McKittrick Hills CTB - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy McKittrick Hills CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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No virus found in this message.

Checked by AVG - www.avg.com

Version: 2015.0.6189 / Virus Database: 4563/12122 - Release Date: 04/28/16

Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Tuesday, May 03, 2016 3:12 PM
To: Cliff Brunson
Cc: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY - McKittrick Hills CTB - Remediation Plan & ATTN: Casey

BLM accepts/approves your work plan as written. Thank you!!

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

575.234.5905 - Direct
575.361.0084 - Cellular

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 Tue, May 3, 2016 at 2:06 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Shelly,

I have attached a remediation plan for the Oxy McKittrick Hills CTB release. This plan has been approved by Mike Bratcher of the NMOCD. Oxy is requesting the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if you would respond via email with the BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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From: Tucker, Shelly [mailto:stucker@blm.gov]

Sent: Tuesday, May 3, 2016 9:03 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Cliff Brunson <cbrunson@bbcinternational.com>; Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>; Casey Summers <Casey_Summers@oxy.com>; Dusty Wilson <dusty_wilson@oxy.com>; Jennifer Duarte <Jennifer_Duarte@oxy.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>

Subject: Re: OXY - McKittrick Hills CTB - Remediation Plan & ATTN: Casey

BLM does not have a copy of the remediation 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

575.234.5905 - Direct

575.361.0084 - Cellular

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 Thu, Apr 28, 2016 at 3:45 PM, Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> wrote:

RE: OXY USA * McKittrick Hills CTB * **2RP-3471** * DOR: 12/9/15

API Number for documentation: 30-015-21012

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled. Federal sites will require like approval from BLM.

ATTN CASEY: Please see the attached Google Earth image. Imagery date is 3/12/16, and shows what appears to be another release just off of the NW corner of the pad. Please advise.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Thursday, April 21, 2016 7:59 PM

To: Bratcher, Mike, EMNRD

Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: OXY - McKittrick Hills CTB - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy McKittrick Hills CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

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World-Wide Environmental Specialists

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Checked by AVG - www.avg.com

Version: 2015.0.6189 / Virus Database: 4565/12157 - Release Date: 05/03/16

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Version: 2015.0.6189 / Virus Database: 4565/12156 - Release Date: 05/03/16











