

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	nAB14314345268
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 8-31-22
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/8/2023
 Printed Name: Brittany Hall Title: Environmental Specialist

Closure Report

nAB14314345268 & nJMW1334452660

Site Description

Site Name:	MCKITTRICK HILLS CTB
Company:	Oxy USA, Inc.
Legal Description:	S 14 , TS 22S , R 24 E
County:	EDDY
GPS Coordinates:	32.397740 -104.4611

Release Data

Date of Release:	10/31/2014 & 12/8/13
Type of Release:	Mixed fluids
Source of Release:	FROZEN TRANSMITTER ALLOWING THE WATER TANK TO OVERFLOW
Volume of Release:	200 bbls 280 bbls
Volume Recovered:	160 bbls 80 bbls

Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated but no paperwork existed for verification therefore, OXY performed confirmation sampling to verify remediation limits had been met. The enclosed site diagram depicts the spill area, excavation depths, and the confirmation sample points. OXY collected sidewall and bottom confirmation samples every 200 square feet .	
Remediation Activities:	Jun-15	
Plan Sent to OCD:	1/8/2015	
OCD Approval of Plan:	1/15/2015	
Plan Sent to BLM:		
BLM Approval of Plan:		

Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report	
Notifications	6/28/22, 6/30/22	

Request for Closure

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

Cliff P. Brunson
President, BBC International, Inc.

10/4/2022

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	nJMW1334452660
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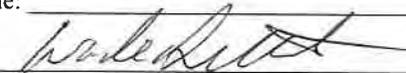
Closure

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Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 8-31-22
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____
 Printed Name: _____ Title: _____

From: [Cliff Brunson](#)
To: ["Enviro, OCD, EMNRD"](#)
Cc: ["Wade Dittrich"](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); [Kathy Sweeney](#)
Subject: OXY - McKittrick Hills CTB - Sampling Notification
Date: Tuesday, June 28, 2022 5:53:00 PM

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the McKittrick Hills CTB (Incident ID # nJMW1334452660) on Tuesday, July 5 at 10:00 a.m.

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
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 E-Mail: cbrunson@bbcinternational.com



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From: [Cliff Brunson](#)
To: ["Enviro, OCD, EMNRD"](#)
Cc: ["Wade Dittrich"](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); [Kathy Sweeney](#)
Subject: OXY - McKittrick Hills CTB - Sampling Notification
Date: Thursday, June 30, 2022 4:45:00 PM

Due to unscheduled circumstances, we need to change the date of sampling for this site to Wednesday, July 6 at 9:00 a.m.

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the McKittrick Hills CTB (Incident ID # nJMW1334452660) on Tuesday, July 5 at 10:00 a.m.

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



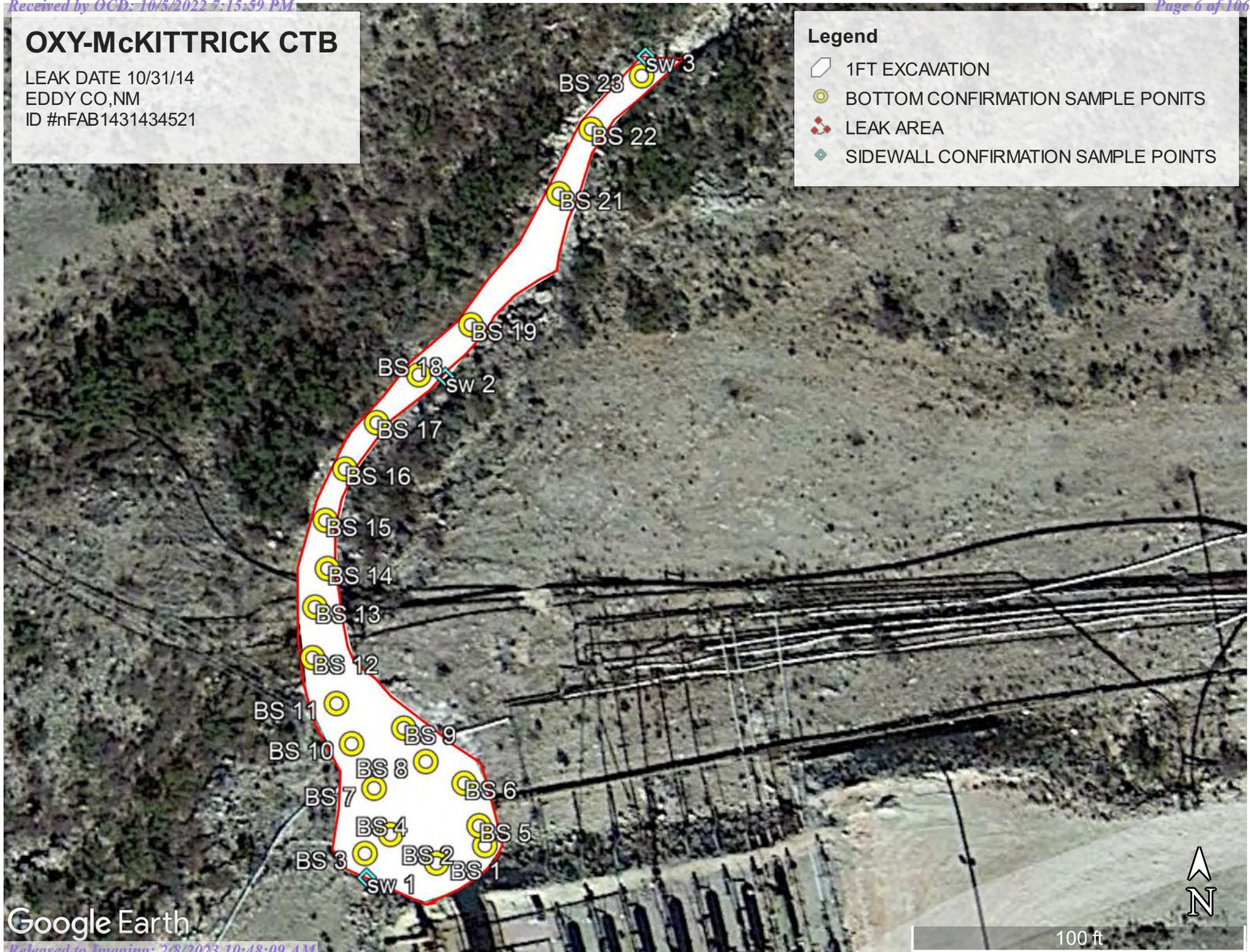
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OXY-McKITTRICK CTB

LEAK DATE 10/31/14
EDDY CO, NM
ID #nFAB1431434521

Legend

-  1FT EXCAVATION
-  BOTTOM CONFIRMATION SAMPLE PONITS
-  LEAK AREA
-  SIDEWALL CONFIRMATION SAMPLE POINTS



MCKITTRICK HILL CTB (10/31/14)

SAMPLE DATE 7/6/22

BS 1@1'	N32.39780	W-140.46149
<u>BS 2@1'</u>	N32.39790	W-104.46154
<u>BS 3@1'</u>	N32.39781	W-104.46157
BS 4@ 1'	N32.39785	W-104.46159
BS 5@ 1'	N32.39784	W-104.46164
BS 6@1'	N32.39782	W-104.46164
BS 7@1'	N32.39782	W-104.46161
BS 8@1'	N32.39786	W-104.46165
BS 9@1'	N32.39788	W-104.46152
BS 10 @ 1'	N32.39790	W-104.46152
BS 11@1'	N32.39793	W-104.46161
BS 12 @1'	N32.39791	W-104.46163
BS 13 @1'	N32.39795	W-104.46167
BS 14 @1'	N32.39793	W-104.46173
BS 15 @1'	N32.39799	W-104.46169
BS 16 @1'	N32397806	W-104.46160
BS 17@1'	N32.39813	W-104.46164
BS 18 @1'	N32.39816	W-104.46159
BS 19 @1'	N32.39823	W-104.46156
BS 21 @1'	N32.39835	W-104.46143
BS 22 @1'	N32.39843	W-104.46141
BS 23 @1'	N32.39848	W-104.46129
SW 1	N32.39548	W-104.46118
SW 2	N32.39800	W-104.46175
SW 3	N32.39783	W-104.46148

	Sample ID	BS 1 @ 1'	BS 2 @ 1'	BS 3 @ 1'	BS 4 @ 1'	BS 5 @ 1'	BS 6 @ 1'	BS 7 @ 1'	BS 8 @ 1'	BS 9 @ 1'	BS10@ 1'	BS 11 @ 1'	BS 12@1'	BS13 @ 1'	BS 14@1'	BS 15@ 1'	BS 16@1'	BS17@1'	BS 18@1'
Analyte	Date	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg								
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	32.0	<16.0	<16.0	<16.0	32.0	<16.0	<16.0	<16.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	10.3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	BS 19 @1'	BS 20 @1'	BS 21@1'	BS 22@1'	BS 23@1'
Analyte	Date	7/6/22	7/6/22	7/6/22	7/6/22	7/6/22
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride		<16.0	<16.0	<16.0	<16.0	<16.0
GRO		<10.0	<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0	<10.0

	Sample ID	SW 1	SW 2	SW 3
Analyte	Date	7/6/22	7/6/22	7/6/22
		mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300
Chloride		<16.0	<16.0	<16.0
GRO		<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0



OXY- McKITTRICK HILLS CTB (10-31-14)





OXY- McKITTRICK HILLS CTB (10-31-14)





OXY- McKITTRICK HILLS CTB (10-31-14)





OXY- McKITTRICK HILLS CTB (10-31-14)





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

July 11, 2022

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 07/07/22 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 1 @ 1' (H222914-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29		
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 73.4 % 43-149

Surrogate: 1-Chlorooctadecane 72.7 % 42.5-161

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 2 @ 1' (H222914-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 43-149

Surrogate: 1-Chlorooctadecane 70.2 % 42.5-161

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 3 @ 1' (H222914-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 43-149

Surrogate: 1-Chlorooctadecane 83.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 4 @ 1' (H222914-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 43-149

Surrogate: 1-Chlorooctadecane 77.3 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 5 @ 1' (H222914-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 6 @ 1' (H222914-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 68.8 % 43-149

Surrogate: 1-Chlorooctadecane 67.2 % 42.5-161

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Analytical Results For:

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 7 @ 1' (H222914-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29		
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 75.7 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 8 @ 1' (H222914-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	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	07/08/2022	ND	204	102	200	9.64	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 70.1 % 43-149

Surrogate: 1-Chlorooctadecane 67.7 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 9 @ 1' (H222914-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29		
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	204	102	200	9.64		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	205	103	200	10.5		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 58.1 % 43-149

Surrogate: 1-Chlorooctadecane 56.7 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 10 @ 1' (H222914-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 54.1 % 43-149

Surrogate: 1-Chlorooctadecane 58.1 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 11 @ 1' (H222914-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 56.3 % 43-149

Surrogate: 1-Chlorooctadecane 59.6 % 42.5-161

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Analytical Results For:

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Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 12 @ 1' (H222914-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 59.0 % 43-149

Surrogate: 1-Chlorooctadecane 62.5 % 42.5-161

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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 13 @ 1' (H222914-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 61.2 % 43-149

Surrogate: 1-Chlorooctadecane 65.1 % 42.5-161

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 14 @ 1' (H222914-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 43.8 % 43-149

Surrogate: 1-Chlorooctadecane 45.8 % 42.5-161

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 15 @ 1' (H222914-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29	
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 56.3 % 43-149

Surrogate: 1-Chlorooctadecane 59.6 % 42.5-161

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 16 @ 1' (H222914-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29		
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 54.5 % 43-149

Surrogate: 1-Chlorooctadecane 57.5 % 42.5-161

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 17 @ 1' (H222914-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.1	2.00	2.29		
Toluene*	<0.050	0.050	07/08/2022	ND	2.20	110	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	1.03		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	7.06	118	6.00	1.42		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 52.2 % 43-149

Surrogate: 1-Chlorooctadecane 56.0 % 42.5-161

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 18 @ 1' (H222914-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 51.3 % 43-149

Surrogate: 1-Chlorooctadecane 54.7 % 42.5-161

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 19 @ 1' (H222914-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27	
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 47.5 % 43-149

Surrogate: 1-Chlorooctadecane 50.1 % 42.5-161

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Analytical Results For:

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Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 20 @ 1' (H222914-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27	
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 50.9 % 43-149

Surrogate: 1-Chlorooctadecane 54.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 21 @ 1' (H222914-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27	
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane 57.3 % 43-149

Surrogate: 1-Chlorooctadecane 61.0 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 22 @ 1' (H222914-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 57.7 % 43-149

Surrogate: 1-Chlorooctadecane 61.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 23 @ 1' (H222914-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 49.5 % 43-149

Surrogate: 1-Chlorooctadecane 52.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 1 @ 1' (H222914-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 56.4 % 43-149

Surrogate: 1-Chlorooctadecane 60.5 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 2 @ 1' (H222914-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 59.2 % 43-149

Surrogate: 1-Chlorooctadecane 63.6 % 42.5-161

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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:	07/07/2022	Sampling Date:	07/06/2022
Reported:	07/11/2022	Sampling Type:	Soil
Project Name:	MCKITTRICK HILLS CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/31/14)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 3 @ 1' (H222914-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.27		
Toluene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	2.59		
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.14	107	2.00	1.83		
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.51	109	6.00	0.899		
Total BTEX	<0.300	0.300	07/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	177	88.4	200	0.148		
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	187	93.7	200	1.54		
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND						

Surrogate: 1-Chlorooctane 49.6 % 43-149

Surrogate: 1-Chlorooctadecane 52.6 % 42.5-161

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Notes and Definitions

- 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

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

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 CTB (10/31/14) Project Location: New Mexico Sampler Name: SIMON		P.O. #: _____ Company: Oxy Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
State: NM Zip: 88241 Fax #: 575-397-0397 Project Owner: Oxy		BILL TO	
Project Name: MCKITTRICK HILLS CTB (10/31/14) Project Location: New Mexico Sampler Name: SIMON		ANALYSIS REQUEST	
<small>FOR LAB USE ONLY</small>			
Lab I.D.	Sample I.D.	# CONTAINERS	DATE TIME
H023914	BS 1 @ 1'	(G)RAB OR (C)OMP.	07/06/22 9:45AM
	BS 2 @ 1'	GROUNDWATER	07/06/22 9:53AM
	BS 3 @ 1'	WASTEWATER	07/06/22 10:05AM
	BS 4 @ 1'	SOIL	07/06/22 10:12AM
	BS 5 @ 1'	OIL	07/06/22 10:28AM
	BS 6 @ 1'	SLUDGE	07/06/22 10:41AM
	BS 7 @ 1'	OTHER :	07/06/22 10:54AM
	BS 8 @ 1'	ACID/BASE:	07/06/22 11:05AM
	BS 9 @ 1'	ICE / COOL	07/06/22 11:14AM
	BS10 @ 1'	OTHER :	07/06/22 11:27AM
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Relinquished By:	Date: 7-9-22	Received By:	Date: 7-9-22
Time: 8:00am	Time: 8:00am	Time: 8:00am	Time: 8:00am
Delivered By: (Circle One)	Time: 7:50	Received By:	Time: 7:50
Sampler - UPS - Bus - Other:	Time: 7:50	Time: 7:50	Time: 7:50
Sample Condition:	Time: 7:50	Time: 7:50	Time: 7:50
Cool Intact:	Time: 7:50	Time: 7:50	Time: 7:50
Checked By: (Initials)	Time: 7:50	Time: 7:50	Time: 7:50
Phone Result:	Time: 7:50	Time: 7:50	Time: 7:50
Fax Result:	Time: 7:50	Time: 7:50	Time: 7:50
Remarks:	Time: 7:50	Time: 7:50	Time: 7:50

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



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CHAIN-OF-CUSTODY AND 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 CTB (10/31/14) Project Location: New Mexico Sampler Name: SIMON		P.O. #: _____ Company: Oxy Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
BILL TO			
ANALYSIS REQUEST			
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
		GROUNDWATER	WASTEWATER
		SOIL	OIL
		SLUDGE	OTHER :
		ACID/BASE:	ICE / COOL
		OTHER :	
		DATE	TIME
11	BS 11 @ 1'	07/06/22	11:39AM
12	BS 12 @ 1'	07/06/22	11:51AM
13	BS 13 @ 1'	07/06/22	12:05PM
14	BS 14 @ 1'	07/06/22	12:14PM
15	BS 15 @ 1'	07/06/22	12:23PM
16	BS 16 @ 1'	07/06/22	12:36PM
17	BS 17 @ 1'	07/06/22	12:51PM
18	BS 18 @ 1'	07/06/22	1:04PM
19	BS 19 @ 1'	07/06/22	1:15PM
20	BS 20 @ 1'	07/06/22	1:24PM

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Reinquished By: <i>Simon Payne</i>	Date: 7-7-22	Received By: <i>Simon Payne</i>	Date: 7-7-22
Reinquished By: <i>Simon Payne</i>	Date: 7-7-22	Received By: <i>Simon Payne</i>	Date: 7-7-22
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>UPS</i>	Time: 7:15 PM	Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <i>Simon Payne</i> (Initials)

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



January 8, 2015

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

Subject: **Soil Assessment and Remediation Work Plan**
Oxy Permian LTD
McKittrick Hills Central Tank Battery

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

Dear Mr. Bratcher,

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

Oxy Permian LTD has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced McKittrick Hills Central Tank Battery release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

October 31, 2014

Background Information

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.466.7030
Fax 806.467.0622

The McKittrick Hills Central Tank Battery is located approximately thirty-six (36) miles southwest of Artesia, New Mexico. The legal location for the site is Section 14, Township 22 South and Range 24 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.397740 North and -104.4611 West.

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Ector extremely rocky loam with a 9 to 25 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupien Artesia Group, Tansil and Yates formations, which are made up of residuum weathered limestone underlain by very cobbly loam and hard caliches. The New Mexico State Engineer web site indicates the nearest ground water data to be in S12-T22S-R24E. The ground water in Section 12 is reported to be a depth of 400' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 0 based on the as following:

ENVIRONMENTAL CONSULTING		
ENGINEERING	Depth to ground water	>100'
DRILLING	Wellhead Protection Area	>1000'
CONSTRUCTION	Distance to surface water body	>1000'
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

A dump valve on a heater treater failed due to an obstruction in the air supply lines. Each time the recirculation pump started oil was dumped out of the vent on the back of the heater treater. This caused oil to flow off of the northwest of the location and into the pasture. The oil also flowed down gradient and into the draw to the north of the location. The oil then continued to flow east down the draw for approximately 350-feet. Talon mobilized personnel to conduct soil sampling within the impacted area.

Due to the rockiness of the area further vertical delineation activities are impossible. As done in previous releases at this location, with approval from the NMOCD and BLM, samples were taken to refusal (depths between 0.5 to 2-feet bgs). Refusal in these areas correspond with the total depth of the soil profile at these locations.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	96.1	80	3640	29800
S-1	1	130	ND	3150	20300
S-1	2	130	32	4210	24700
S-2	0	111	ND	4230	42600
S-2	0.5	112	ND	2940	26500
S-3	0	155	192	5180	36300
S-3	4'	95	176	3280	26600
S-4	0	138	ND	5650	34000
S-4	1	154	ND	3500	22700
S-4	1.5	104	80	2120	14000
S-5	0	304	96	9030	52600
S-5	0.5	159	128	6620	49500

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

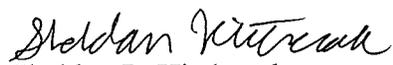
Proposed Remedial Actions

- All of the soil within the impacted area will be removed to expose the underlying rock.
- The impacted soil will be hauled to an NMOCD approved solid waste disposal facility.
- The impacted area will be treated with Micro-Blaze, a bioremediation agent.
- 60 to 90 days after the Micro-Blaze application confirmation soil samples will be taken within the impacted area (to the best extent possible, due to site conditions) and analyzed for TPH and BTEX content.
- The BLM and OCD will be presented the lab data. The excavated area will be backfilled upon regulatory approval.
- The backfilled area will be seeded with the BLM recommended seed mixture for this area.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575.746.8768.

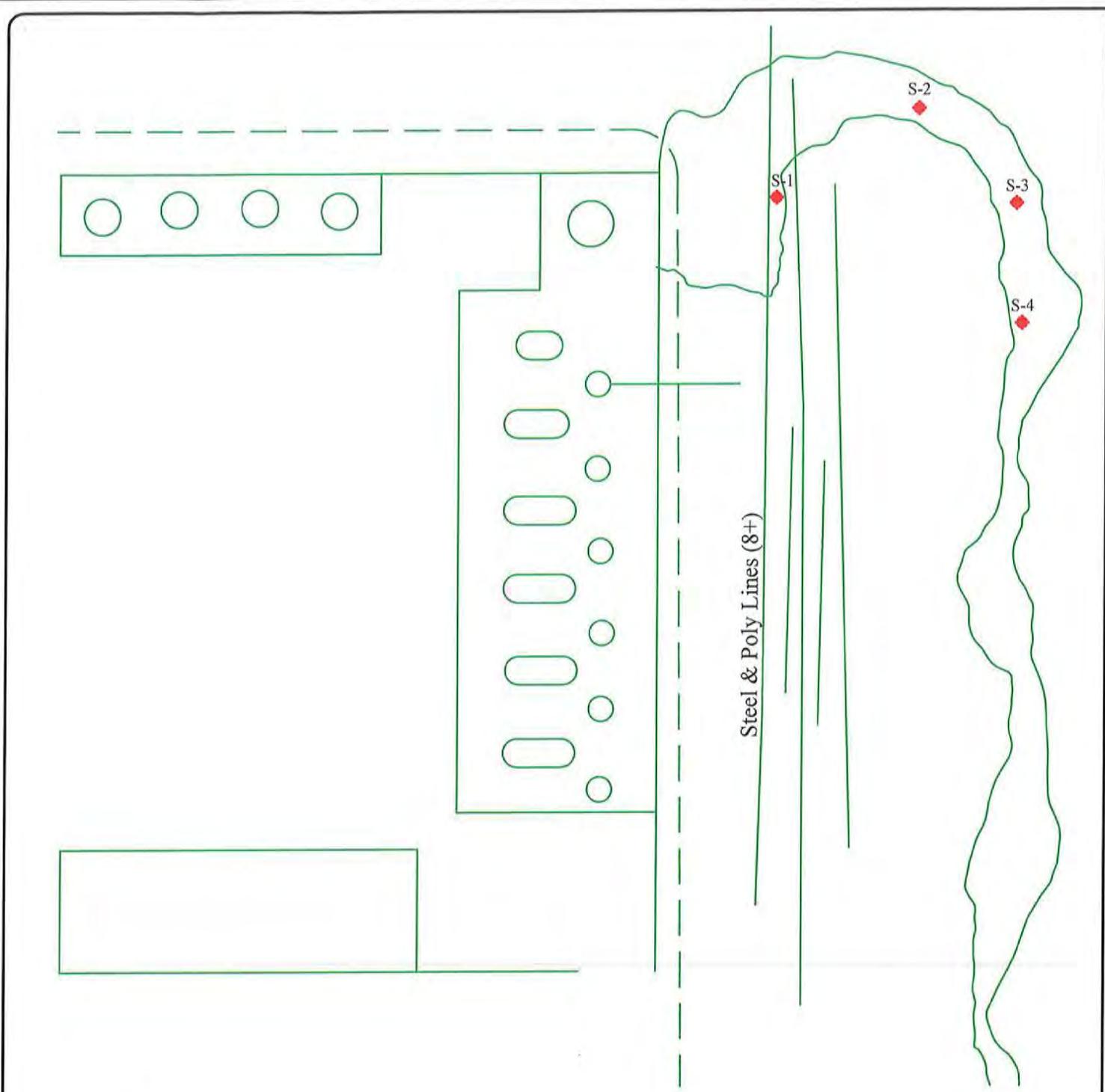
Respectfully submitted,

TALON/LPE


Sheldon L. Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



Legend
 ♦ - Sample Location



Date: 11/24/2014
 Scale: NTS
 Drawn By: TJS

McKittrick CTB
 Oxy - NM - North
 Eddy County, New Mexico
 Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02428			ED	4	2	1	12	22S	24E	551426	3586017*	1624	450	400	50
C 02351			ED	3	2	2	15	22S	24E	548817	3584393*	1821	120	100	20
C 02384			ED	3	2	2	15	22S	24E	548817	3584393*	1821	120	100	20
C 01403	C		ED	3	2	1	24	22S	24E	551238	3582798*	1905	238	213	25

Average Depth to Water: **203 feet**
Minimum Depth: **100 feet**
Maximum Depth: **400 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 550626

Northing (Y): 3584603

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company : Oxy Permian LTD (192463)	Contact : Chris Jones
Address : 1502 W. Commerce, Carlsbad, NM 88220	Telephone No. : 575-628-4121
Facility Name : McKittrick Hills Central Tank Battery	Facility Type: Central Tank Battery

Surface Owner : Federal	Mineral Owner	API#:
--------------------------------	---------------	-------

LOCATION OF RELEASE

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

Latitude 32.397740 Longitude -104.4611

NATURE OF RELEASE

Type of Release : Oil	Volume of Release : 280 bbls	Volume Recovered: 80 bbls
Source of Release : Dump valve at Heater Treat failed	Date and Hour of Occurrence: 10/31/2014	Date and Hour of Discovery: 10/31/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD/Mike Bratcher voicemail & BLM/Jim Amos	
By Whom: Kimberly Wilson	Date and Hour : 11/6/2014 @11:29 am	
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.* Produced fluids exited location and flowed into Little Water Draw, an ephemeral water course that runs only during precipitous events.

Describe Cause of Problem and Remedial Action Taken.* **A dump valve for the heater treater failed to dump due to trash in the air supply lines, and every time the recirculation pump came on it dumped oil out of the heater treater vent on the back side north west of the location into the pasture down the draw and followed the draw in an easterly direction causing a release of 280 barrels of oil. A vac truck was call to the location and recovered 80 barrels. Talon/LPE was contacted to complete the site assessment and collect soil samples to generate a work plan.**

Describe Area Affected and Cleanup Action Taken.* **The area impacted area was off the northwest side of location. It then followed the draw in an easterly direction measuring approximately 350-feet long by 50-feet wide.**

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: Chris Jones	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chris Jones	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Christopher Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/6/2014 Phone: 575-628-4121		

Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

December 10, 2014

DAVID ADKINS
TALON LPE
408 W. TEXAS AVE.
ARTESIA, NM 88210

RE: MCKITTRICK CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 12/04/2014
 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 0' (H403706-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	26.1	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.26	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	65.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	96.1	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3640	100	12/05/2014	ND	195	97.3	200	0.648		
DRO >C10-C28	29800	100	12/05/2014	ND	199	99.5	200	0.371		

Surrogate: 1-Chlorooctane 317 % 47.2-157

Surrogate: 1-Chlorooctadecane 857 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 1' (H403706-02)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 61-154

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 282 % 47.2-157

Surrogate: 1-Chlorooctadecane 576 % 52.1-176

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 2' (H403706-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	40.5	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.63	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	85.2	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	130	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4210	100	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	24700	100	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 297 % 47.2-157

Surrogate: 1-Chlorooctadecane 668 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014 Sampling Date: 12/03/2014
Reported: 12/10/2014 Sampling Type: Soil
Project Name: MCKITTRICK CTB Sampling Condition: Cool & Intact
Project Number: 70060833802 Sample Received By: Kathy Perez
Project Location: EDDY COUNTY, NM

Sample ID: S-2 0' (H403706-04)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 360 % 47.2-157

Surrogate: 1-Chlorooctadecane 1190 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-2 .5' (H403706-05)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	22.8	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.83	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	84.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	112	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	2940	50.0	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	26500	50.0	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 281 % 47.2-157

Surrogate: 1-Chlorooctadecane 806 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 0' (H403706-06)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	44.9	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	6.50	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	103	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	155	30.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5180	50.0	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	36300	50.0	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 329 % 47.2-157

Surrogate: 1-Chlorooctadecane 1040 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 4" (H403706-07)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 61-154

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 295 % 47.2-157

Surrogate: 1-Chlorooctadecane 755 % 52.1-176

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Celey D. Keene (Signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-4 0' (H403706-08)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	42.2	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	<5.00	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	94.0	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	138	30.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5650	100	12/05/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	34000	100	12/05/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 342 % 47.2-157

Surrogate: 1-Chlorooctadecane 941 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-4 1' (H403706-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/09/2014	ND	1.87	93.7	2.00	3.16		
Toluene*	36.3	2.50	12/09/2014	ND	1.72	86.2	2.00	3.97		
Ethylbenzene*	8.08	2.50	12/09/2014	ND	1.63	81.5	2.00	1.82		
Total Xylenes*	109	7.50	12/09/2014	ND	4.90	81.6	6.00	2.34		
Total BTEX	154	15.0	12/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3500	50.0	12/05/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	22700	50.0	12/05/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 271 % 47.2-157

Surrogate: 1-Chlorooctadecane 699 % 52.1-176

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 12/04/2014
 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 1.5' (H403706-10)

BTEX 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	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	19.2	2.00	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	7.06	2.00	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	77.4	6.00	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	104	12.0	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 61-154

Chloride, SM4500CI-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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2120	50.0	12/05/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	14000	50.0	12/05/2014	ND	202	101	200	1.55		

Surrogate: 1-Chlorooctane 302 % 47.2-157

Surrogate: 1-Chlorooctadecane 372 % 52.1-176

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014 Sampling Date: 12/03/2014
Reported: 12/10/2014 Sampling Type: Soil
Project Name: MCKITTRICK CTB Sampling Condition: Cool & Intact
Project Number: 70060833802 Sample Received By: Kathy Perez
Project Location: EDDY COUNTY, NM

Sample ID: S-5 0' (H403706-11)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 107% 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 435% 47.2-157

Surrogate: 1-Chlorooctadecane 1470% 52.1-176

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-5 .5' (H403706-12)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PID) 104% 61-154

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 411% 47.2-157

Surrogate: 1-Chlorooctadecane 1410% 52.1-176

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Coley D. Keene (signature)

Coley D. Keene, Lab Director/Quality Manager



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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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE
 Project Manager: BIETO
 P.O. #:

Address: 408 W. Texas Ave. Company: CRIST
 Attn: Chris Jones

City: Artesia State: NM zip: 88210 Address:

Phone #: 575-746-8768 Fax #: 575-746-8905 City: CRIST

Project #: 206083388A Project Owner: CRIST State: Zip:

Project Name: McKibbin CTB Phone #: Fax #:

Project Location: Edley

Sampler Name: G. Boerd

FOR USE ONLY MATRIX PRESERV/ SAMPLING

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	ANALYSIS REQUEST
<u>H403206</u>															
<u>11</u>	<u>S-5, 0'</u>	<input checked="" type="checkbox"/>											<u>12-3-19</u>	<u>1:00</u>	<u>PH</u>
<u>12</u>	<u>S-5, .5'</u>	<input checked="" type="checkbox"/>											<u>12-3-19</u>	<u>1:20</u>	<u>BTER</u>
															<u>Total Chlorides</u>

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Relinquished By: [Signature] Date: 12-4-19 Received By: [Signature] Date: 12-5-20

Requisitioned By: [Signature] Date: 12-4-19 Received By: [Signature] Date: 12-5-20

Delivered By: (Circle One) UPS Sample Condition: Intact Checked By: [Signature]

Sampler - UPS - Bus - Other: 5:20 4P

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS: Project Number 1126388
Task Number 01030105

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Sheldon Hitchcock

From: Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>
Sent: Thursday, January 15, 2015 11:37 AM
To: Sheldon Hitchcock
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Oxy * Mckittrick Hills Central Tank Battery * FAB1431434521 * 2RP-2588 (also fJMW1334451912 2RP-2107)

Sheldon,

This work plan is approved as written. As stated in the work plan, confirmation samples must be reviewed and approved by the OCD before this site may be backfilled. The OCD would also like to request confirmation samples for the 12/8/2013 release (2RP-2107). Like approval by BLM is required for this site.

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.

Heather Patterson
Environmental Specialist
NMOCD District II
(575)748-1283 ext.101

From: Sheldon Hitchcock [mailto:slhitchcock@talonlpe.com]
Sent: Wednesday, January 14, 2015 2:09 PM
To: Patterson, Heather, EMNRD
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Heather,

- Some of the erosion bars will probably need to be repaired/replaced since last year's flooding.
- The BLM (Jennifer Van Curen) gave verbal permission to backfill after the micro-blaze was completed since we excavated to the top of the rock. I think the BLM was primarily concerned with reestablishing growth in the draw before the monsoon season got into full swing.
- The new release covered the same flow path in the draw as the old release. My plan is to remediate this new release and resample everything to make sure we have the whole area below RRAI's and then close both RP's.

Please let me know if you have any more questions.

Respectfully,

Sheldon L. Hitchcock
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
Phone: (575) 746-8768
Cell: (575) 689-5198
Fax: (575) 746-8905
Email: shitchcock@talonlpe.com
Web: www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, January 14, 2015 10:26 AM
To: Sheldon Hitchcock
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Sheldon,

I have a couple of questions about the first release (2RP-2107). Did the OCD ever receive the requested confirmation samples before this area was backfilled and reseeded? And are the erosion bars requested by BLM still in place?

Heather Patterson
Environmental Specialist
NMOCD District II
(575)748-1283 ext.101

From: Sheldon Hitchcock [<mailto:shitchcock@talonlpe.com>]
Sent: Friday, January 09, 2015 10:13 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Robertson, Jeffery
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson
Subject: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Hello everyone,

The work plan for the recent McKittrick Hills CTB is attached. This is the second release at this site in the last two years. The first release was on December 8, 2013. As you know the soils in this area are shallow or non-existent. This makes removing all of the TPH and BTEX from this area is nearly impossible. Therefore the only reasonable solution is an in-situ remediation. While working on the first release it was determined that it was not practical to remove all of the impacts. OCD and BLM stipulated that "there needs to be as much removed as possible" and that Micro-Blaze could then be used to help with the in-situ remediation process. Once that work was completed we constructed erosional control berms and seeded the draw with Alkali Sacton.

Much of the impacted soil in the draw for the current release is in the fill material placed for the remediation project on the first release at this site. I laid out the work plan to essentially follow the same course of action we took to remediate the initial release. Any impacted material that can be removed will be and the area will be Micro-Blazed. Within 60-90 days we will resample utilizing what remaining soil we can to pull a sample(s). Once that is complete and regulatory approval is obtained, we will backfill and seed.

Please review the work plan and let me know if this course of action will meet everyone's expectations or if anyone would like to add any stipulations.

Respectfully,

Sheldon L. Hitchcock
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
Phone: (575) 746-8768
Cell: (575) 689-5198
Fax: (575) 746-8905
Email: shitchcock@talonlpe.com
Web: www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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Sheldon Hitchcock

From: Robertson, Jeffery <jlrobertson@blm.gov>
Sent: Monday, February 9, 2015 12:43 PM
To: Sheldon Hitchcock
Subject: Re: FW: Oxy- Mckittrick Hills Central Tank Battery Work Plan

This plan is approved as written with the above listed conditions of approval **This plan still needs to be approved by OCD.** BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and re mediate 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 location does not re vegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until 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.

Thanks

Notification Stipulations:

1. **A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.**

2. **The authorized officer must be notified at the following phases of cleanup or conditions:**
 - a. Prior to moving equipment on location for cleanup
 - b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
 - c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
 - d. Three days before the site is seeded.
 - e. Any time that a variance of the approved plan or conditions of approval is required.
 - f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.

1. The authorized officer on this undesirable event case and contact for an questions is:

Jeffery L. Robertson
BLM-CFO
Natural Resource Specialist
575-234-2230 office
575-575-1920 cell
Jlrobertson@blm.gov

Jeffery L. Robertson

BLM-CFO
Natural Resource Specialist
Office: 575-234-2230
Cell: 575-706-1920
jrobertson@blm.gov

On Wed, Feb 4, 2015 at 2:08 PM, Sheldon Hitchcock <slhitchcock@talonlpe.com> wrote:

Jeff,

I just wanted to follow up on this project and see if you have had a chance to look at the work plan yet. It has been approved by OCD (see below) and we are wanting to move on it. I know you guys are busy but if you could review the work plan whenever you have time and let me know if you have any issues I would appreciate it. Thank you sir.

Respectfully,

Sheldon L. Hitchcock
Project Manager
Talon/LPE
408 West Texas Avenue

Artesia, New Mexico 88210
Phone: (575) 746-8768

Cell: (575) 689-5198
Fax: (575) 746-8905

Email: slhitchcock@talonlpe.com

Web: www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist

Staples Foundation for Learning Hall of Fame Recipient: 2010

ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

Inc. 500/5000: 2012, 2011, 2010, 2009, 2008, 2007

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From: Patterson, Heather, EMNRD [mailto:Heather.Patterson@state.nm.us]
Sent: Thursday, January 15, 2015 11:37 AM

To: Sheldon Hitchcock
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Oxy * McKittrick Hills Central Tank Battery * fAB1431434521 * 2RP-2588 (also fJMW1334451912 2RP-2107)

Sheldon,

This work plan is approved as written. As stated in the work plan, confirmation samples must be reviewed and approved by the OCD before this site may be backfilled. The OCD would also like to request confirmation samples for the 12/8/2013 release (2RP-2107). Like approval by BLM is required for this site.

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.

Heather Patterson
Environmental Specialist
NMOCD District II
(575)748-1283 ext.101

From: Sheldon Hitchcock [<mailto:slhitchcock@talonlpe.com>]
Sent: Wednesday, January 14, 2015 2:09 PM
To: Patterson, Heather, EMNRD
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Heather,

- Some of the erosion bars will probably need to be repaired/replaced since last year's flooding.
- The BLM (Jennifer Van Curen) gave verbal permission to backfill after the micro-blaze was completed since we excavated to the top of the rock. I think the BLM was primarily concerned with reestablishing growth in the draw before the monsoon season got into full swing.
- The new release covered the same flow path in the draw as the old release. My plan is to remediate this new release and resample everything to make sure we have the whole area below RRAI's and then close both RP's.

Please let me know if you have any more questions.

Respectfully,

Sheldon L. Hitchcock
Project Manager
Talon/LPE
408 West Texas Avenue

Artesia, New Mexico 88210
Phone: (575) 746-8768

Cell: (575) 689-5198
Fax: (575) 746-8905

Email: slhitchcock@talonlpe.com

Web: www.talonlpe.com



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ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

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From: Patterson, Heather, EMNRD [<mailto:Heather.Patterson@state.nm.us>]
Sent: Wednesday, January 14, 2015 10:26 AM
To: Sheldon Hitchcock
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Sheldon,

I have a couple of questions about the first release (2RP-2107). Did the OCD ever receive the requested confirmation samples before this area was backfilled and reseeded? And are the erosion bars requested by BLM still in place?

Heather Patterson

Environmental Specialist

NMOCD District II

(575)748-1283 ext.101

From: Sheldon Hitchcock [<mailto:shitchcock@talonpe.com>]
Sent: Friday, January 09, 2015 10:13 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Robertson, Jeffery
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson
Subject: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Hello everyone,

The work plan for the recent McKittrick Hills CTB is attached. This is the second release at this site in the last two years. The first release was on December 8, 2013. As you know the soils in this area are shallow or non-existent. This makes removing all of the TPH and BTEX from this area is nearly impossible. Therefore the only reasonable solution is an in-situ remediation. While working on the first release it was determined that it was not practical to remove all of the impacts. OCD and BLM stipulated that “there needs to be as much removed as possible” and that Micro-Blaze could then be used to help with the in-situ remediation process. Once that work was completed we constructed erosional control berms and seeded the draw with Alkali Sacton.

Much of the impacted soil in the draw for the current release is in the fill material placed for the remediation project on the first release at this site. I laid out the work plan to essentially follow the same course of action we took to remediate the initial release. Any impacted material that can be removed will be and the area will be Micro-Blazed. Within 60-90 days we will resample utilizing what remaining soil we can to pull a sample(s). Once that is complete and regulatory approval is obtained, we will backfill and seed.

Please review the work plan and let me know if this course of action will meet everyone's expectations or if anyone would like to add any stipulations.

Respectfully,

Sheldon L. Hitchcock
Project Manager
Talon/LPE
408 West Texas Avenue

Artesia, New Mexico 88210
Phone: (575) 746-8768

Cell: (575) 689-5198
Fax: (575) 746-8905

Email: slhitchcock@talonlpe.com

Web: www.talonlpe.com



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Sheldon Hitchcock

From: Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>
Sent: Wednesday, January 14, 2015 10:26 AM
To: Sheldon Hitchcock
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson; Bratcher, Mike, EMNRD; Robertson, Jeffery
Subject: RE: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Sheldon,

I have a couple of questions about the first release (2RP-2107). Did the OCD ever receive the requested confirmation samples before this area was backfilled and reseeded? And are the erosion bars requested by BLM still in place?

Heather Patterson
 Environmental Specialist
 NMOCD District II
 (575)748-1283 ext.101

From: Sheldon Hitchcock [mailto:slhitchcock@talonlpe.com]
Sent: Friday, January 09, 2015 10:13 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Robertson, Jeffery
Cc: christopher_jones@oxy.com; David Adkins; Kimberly M. Wilson
Subject: Oxy- Mckittrick Hills Central Tank Battery Work Plan

Hello everyone,

The work plan for the recent McKittrick Hills CTB is attached. This is the second release at this site in the last two years. The first release was on December 8, 2013. As you know the soils in this area are shallow or non-existent. This makes removing all of the TPH and BTEX from this area is nearly impossible. Therefore the only reasonable solution is an in-situ remediation. While working on the first release it was determined that it was not practical to remove all of the impacts. OCD and BLM stipulated that "there needs to be as much removed as possible" and that Micro-Blaze could then be used to help with the in-situ remediation process. Once that work was completed we constructed erosional control berms and seeded the draw with Alkali Sacton.

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Please review the work plan and let me know if this course of action will meet everyone's expectations or if anyone would like to add any stipulations.

Respectfully,

Sheldon L. Hitchcock
 Project Manager
 Talon/LPE
 408 West Texas Avenue



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

December 10, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MCKITTRICK CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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



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

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 0' (H403706-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	26.1	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.26	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	65.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	96.1	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102% 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3640	100	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	29800	100	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 317% 47.2-157

Surrogate: 1-Chlorooctadecane 857% 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 1' (H403706-02)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 282 % 47.2-157

Surrogate: 1-Chlorooctadecane 576 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 2' (H403706-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	40.5	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.63	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	85.2	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	130	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4210	100	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	24700	100	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 297 % 47.2-157

Surrogate: 1-Chlorooctadecane 668 % 52.1-176

Cardinal Laboratories * = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 12/04/2014
 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 0' (H403706-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	21.7	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.18	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	84.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	111	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	4230	100	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	42600	100	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 360 % 47.2-157

Surrogate: 1-Chlorooctadecane 1190 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014 Sampling Date: 12/03/2014
Reported: 12/10/2014 Sampling Type: Soil
Project Name: MCKITTRICK CTB Sampling Condition: Cool & Intact
Project Number: 70060833802 Sample Received By: Kathy Perez
Project Location: EDDY COUNTY, NM

Sample ID: S-2 .5' (H403706-05)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 104% 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 281% 47.2-157

Surrogate: 1-Chlorooctadecane 806% 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 0' (H403706-06)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	44.9	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	6.50	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	103	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	155	30.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103% 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5180	50.0	12/05/2014	ND	195	97.3	200	0.648			
DRO >C10-C28	36300	50.0	12/05/2014	ND	199	99.5	200	0.371			

Surrogate: 1-Chlorooctane 329% 47.2-157

Surrogate: 1-Chlorooctadecane 1040% 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 4" (H403706-07)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	23.2	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	4.51	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	67.2	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	95.0	15.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3280	50.0	12/05/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	26600	50.0	12/05/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 295 % 47.2-157

Surrogate: 1-Chlorooctadecane 755 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-4 0' (H403706-08)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78		
Toluene*	42.2	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90		
Ethylbenzene*	<5.00	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30		
Total Xylenes*	94.0	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55		
Total BTEX	138	30.0	12/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	5650	100	12/05/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	34000	100	12/05/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 342 % 47.2-157

Surrogate: 1-Chlorooctadecane 941 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 12/04/2014
 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 1' (H403706-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.50	2.50	12/09/2014	ND	1.87	93.7	2.00	3.16		
Toluene*	36.3	2.50	12/09/2014	ND	1.72	86.2	2.00	3.97		
Ethylbenzene*	8.08	2.50	12/09/2014	ND	1.63	81.5	2.00	1.82		
Total Xylenes*	109	7.50	12/09/2014	ND	4.90	81.6	6.00	2.34		
Total BTEX	154	15.0	12/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	3500	50.0	12/05/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	22700	50.0	12/05/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 271 % 47.2-157

Surrogate: 1-Chlorooctadecane 699 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 1.5' (H403706-10)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 61-154

Table for Chloride, SM4500Cl-B. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier.

Table for TPH 8015M. Columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 302 % 47.2-157

Surrogate: 1-Chlorooctadecane 372 % 52.1-176

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Celestine D. Keene (signature)

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-5 0' (H403706-11)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 107% 61-154

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 435% 47.2-157

Surrogate: 1-Chlorooctadecane 1470% 52.1-176

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	12/04/2014	Sampling Date:	12/03/2014
Reported:	12/10/2014	Sampling Type:	Soil
Project Name:	MCKITTRICK CTB	Sampling Condition:	Cool & Intact
Project Number:	70060833802	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: S-5 .5' (H403706-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	12/09/2014	ND	1.87	93.7	2.00	3.16		
Toluene*	32.5	5.00	12/09/2014	ND	1.72	86.2	2.00	3.97		
Ethylbenzene*	5.31	5.00	12/09/2014	ND	1.63	81.5	2.00	1.82		
Total Xylenes*	122	15.0	12/09/2014	ND	4.90	81.6	6.00	2.34		
Total BTEX	159	30.0	12/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	6620	100	12/06/2014	ND	195	97.6	200	0.501			
DRO >C10-C28	49500	100	12/06/2014	ND	202	101	200	1.55			

Surrogate: 1-Chlorooctane 411 % 47.2-157

Surrogate: 1-Chlorooctadecane 1410 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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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 SM4500CI-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

Celey D. Keene, Lab Director/Quality Manager



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June 15, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MC KITTRICK CENTRAL TANK BATTERY (2)

Enclosed are the results of analyses for samples received by the laboratory on 06/09/15 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/09/2015 Sampling Date: 06/09/2015
Reported: 06/15/2015 Sampling Type: Soil
Project Name: MC KITTRICK CENTRAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 700608.338.02 Sample Received By: Jodi Henson
Project Location: 11-22-24

Sample ID: S-1 0.5' (H501482-01)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 1160 % 52.1-176

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	06/09/2015	Sampling Date:	06/09/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	MC KITTRICK CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	700608.338.02	Sample Received By:	Jodi Henson
Project Location:	11-22-24		

Sample ID: S-2 0.5' (H501482-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2015	ND	2.02	101	2.00	0.107		
Toluene*	<0.050	0.050	06/11/2015	ND	1.99	99.5	2.00	1.64		
Ethylbenzene*	<0.050	0.050	06/11/2015	ND	2.04	102	2.00	3.74		
Total Xylenes*	<0.150	0.150	06/11/2015	ND	5.60	93.4	6.00	4.04		
Total BTEX	<0.300	0.300	06/11/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106% 61-154

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	<50.0	50.0	06/10/2015	ND	187	93.3	200	1.11			
DRO >C10-C28	56300	50.0	06/10/2015	ND	199	99.7	200	2.14			

Surrogate: 1-Chlorooctane 90.6% 47.2-157

Surrogate: 1-Chlorooctadecane 3110% 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/09/2015 Sampling Date: 06/09/2015
Reported: 06/15/2015 Sampling Type: Soil
Project Name: MC KITTRICK CENTRAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 700608,338.02 Sample Received By: Jodi Henson
Project Location: 11-22-24

Sample ID: S-3 0.5' (H501482-03)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10 and DRO >C10-C28.

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 1310 % 52.1-176

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/09/2015 Sampling Date: 06/09/2015
Reported: 06/15/2015 Sampling Type: Soil
Project Name: MC KITTRICK CENTRAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 700608.338.02 Sample Received By: Jodi Henson
Project Location: 11-22-24

Sample ID: S-1 1.5' (H501482-04)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PID) 107% 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 115% 47.2-157

Surrogate: 1-Chlorooctadecane 1470% 52.1-176

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/09/2015 Sampling Date: 06/09/2015
Reported: 06/15/2015 Sampling Type: Soil
Project Name: MC KITTRICK CENTRAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 700608.338.02 Sample Received By: Jodi Henson
Project Location: 11-22-24

Sample ID: S-5 0.5' (H501482-05)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIE) 106% 61-154

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 122% 47.2-157

Surrogate: 1-Chlorooctadecane 1540% 52.1-176

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE
 Project Manager: D. Perkins

P.O. #: OXY

Address: 408 W. Texas Ave.

Company: ~~Talon/LPE~~

City: Artesia

State: NM Zip: 88210

Attn:

Phone #: 575-746-8768

Fax #: 575-746-8905

Address:

Project #: 700608.338102

Project Owner: OXY

City:

Project Name: McKittrick CTB (2)

State:

Zip:

Project Location:

Phone #:

Sampler Name: S. Hitchcock

Fax #:

FOR USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TESTS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H501462	1	G	1						6/9/15	2:30	TPH	
	2	G	1							2:35	BTEX	
	3	G	1							2:40		
	4	G	1							2:43		
	5	G	1							2:50		

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Relinquished By: Sheldon Perez

Date: 6/9/15
 Time: 4:50

Received By: [Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4:20

REMARKS: W# 0956113391

Sample Condition

Cool Intact: Yes No

CHECKED BY: [Signature]

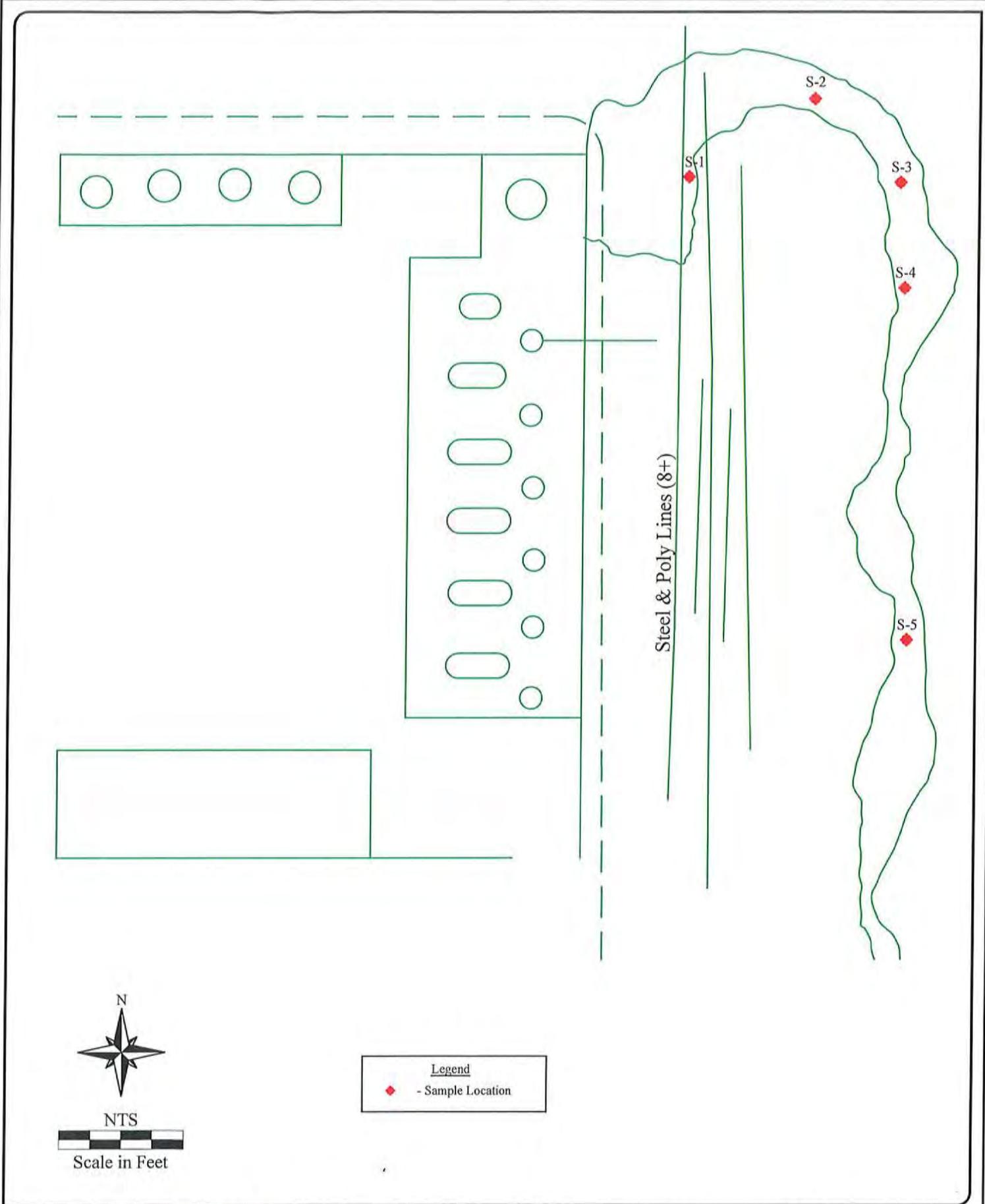
Phone Result: Yes No

Add'l Phone #:

Fax Result: Yes No

Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



NTS



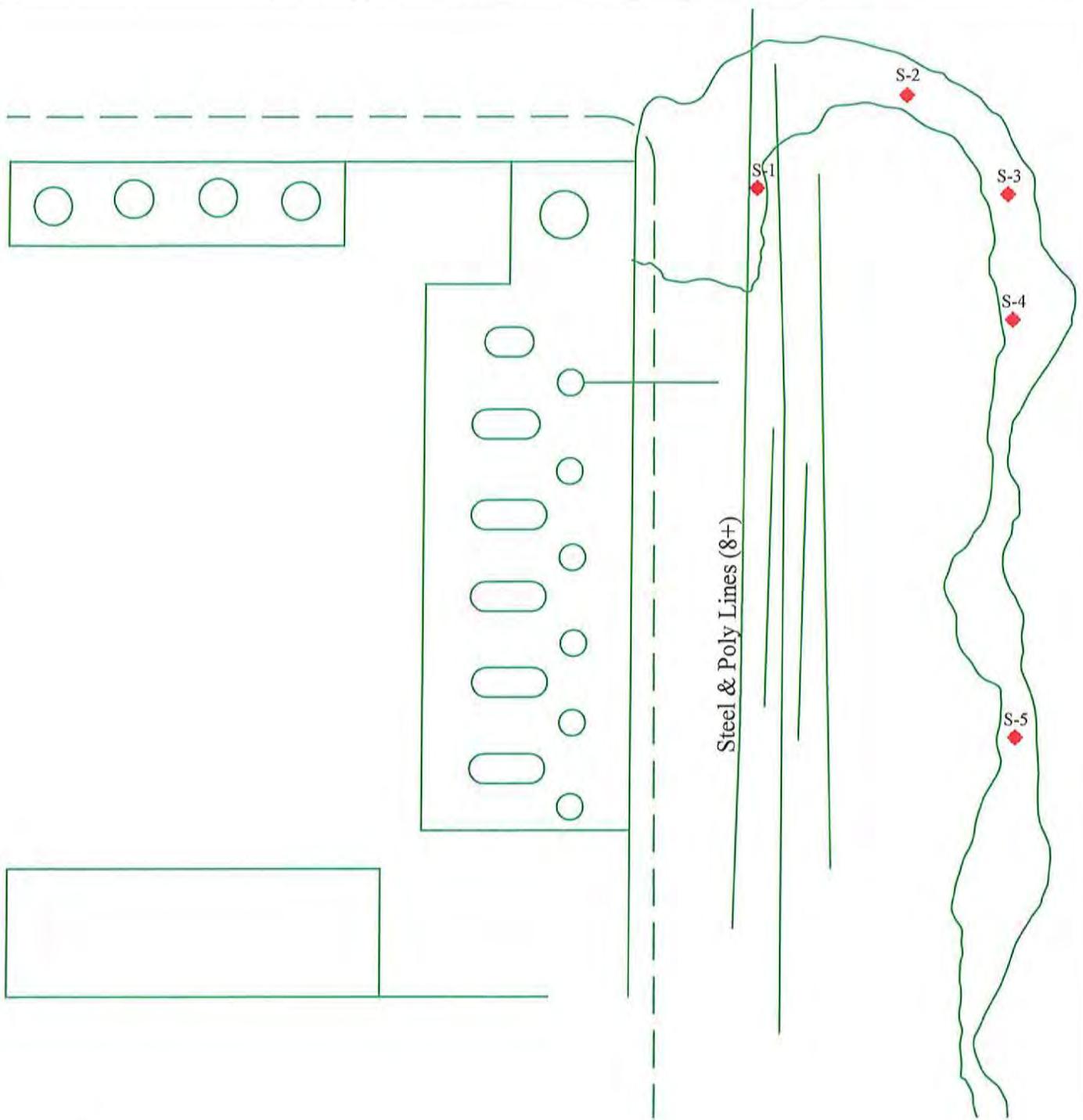
Scale in Feet

Legend	
	- Sample Location



Date: 07/07/2015
Scale: NTS
Drawn By: TJS

McKittrick CTB
 Oxy - NM - North
 Eddy County, New Mexico
 Figure 1 - Site Plan



NTS



Scale in Feet

Legend
 ◆ - Sample Location



Date: 07/07/2015
 Scale: NTS
 Drawn By: TJS

McKittrick CTB
 Oxy - NM - North
 Eddy County, New Mexico
 Figure 1 - Site Plan

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 149194

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 149194
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	2/8/2023