

February 28, 2024

#### **New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan

Twin Lakes SA Unit #046 Incident Number nAPP2405244889 Chaves County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Remediation Work Plan* (*Work Plan*) to document site assessment and delineation activities completed to date and propose remedial actions to address historical impacted soil identified at the Twin Lakes SA Unit #046 well pad (Site). The following *Work Plan* proposes excavation of impacted soil within the historical release area and submittal of a subsequent *Closure Request*, documenting the excavation activities and confirmation soil sample analytical results.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 36, Township 8 South, Range 28 East, in Chaves County, New Mexico (33.569662, -104.040772) and is associated with oil and gas exploration and production operations on state land managed by the New Mexico State Land Office (NMSLO).

During 2021, the NMSLO completed an aerial imagery review of plugged and abandoned wells located on state land in Chaves County. Visible indications of a potential historical release were identified at the Site, and as the lease holder, Oxy was notified by the NMSLO of the need to investigate potential impacts to soil. Oxy contracted BBC International, Inc. (BBC) and Ensolum to conduct assessment and delineation activities within the historical release area. Based on the delineation soil sample analytical results, a Notification of Release was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 21, 2024. The release was assigned Incident Number nAPP2405244889.

Oxy is not the Operator of the Twin Lakes SA Unit #046 well, and has no independent knowledge of the facts or circumstances surrounding the nature, content or volume of any release(s), contemporaneous to any such release(s). All information submitted by Oxy herein is based on Oxy's present day observations of the site. Oxy submits this *Work Plan* pursuant to an agreement with the NMSLO, as lessee of record.

Since the release occurred on a previously disturbed well pad, compliance with the Cultural Properties Protection Rule (CPP) is not required. The oil and gas well has been plugged and abandoned. Upon completion of remediation activities and closure approval of Incident Number nAPP2405244889, a

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com

Oxy USA Inc. Remediation Work Plan Twin Lakes SA Unit #046

Reclamation Plan will be submitted to the NMSLO proposing final reclamation activities for the well pad and access road.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geologic Survey (USGS) well 333423104032401, located approximately 0.98 miles northwest of the Site. The well has a recorded depth to groundwater of 35.77 feet bgs and a total depth of 157 feet. The referenced well records are included in Appendix A. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology. Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

#### SITE ASSESSMENT AND DELINEATION ACTIVITIES

During November 2021 and January 2024, BBC and Ensolum personnel were at the Site to evaluate the historical release extent based on information provided by the NMSLO and visual observations. Four surface soil samples (North, East, West, and South) were collected around the historical release extent to confirm the lateral extent of the surface release. Potholes were advanced at seven sample points (SP1 through SP7) within the historical release area to delineate the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 4 feet bgs. Discrete delineation soil samples were collected from sample points SP1 through SP7 at depths ranging from the ground surface to 4 feet bgs. Soil from the potholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the January 2024 potholes were logged on lithologic soil sampling logs, which are included in Appendix B.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-



Oxy USA Inc. Remediation Work Plan Twin Lakes SA Unit #046

diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visits and a photographic log is included in Appendix C.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for surface soil samples North, East, West, and South indicated all COC concentrations were compliant with the Site Closure Criteria and confirmed the lateral extent of the surface release. Laboratory analytical results for the delineation soil samples collected from sample points SP3, SP5, and SP6, collected at depths ranging from the ground surface to 2 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the delineation soil samples collected from sample points SP1, SP2, SP4, and SP7 indicated that TPH and/or chloride concentrations exceeded the Site Closure Criteria at depths ranging from the ground surface to 2 feet bgs. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

Based on the soil sample analytical results, additional remediation activities are warranted and are proposed below.

#### PROPOSED REMEDIATION WORKPLAN

The delineation soil sample results indicated soil containing TPH and/or chloride concentrations exceeding the Site Closure Criteria is present across an approximate 4,500 square foot area around sample points SP1, SP2, SP4, and SP7 and extends to a depth of 1-foot to 2 feet bgs around sample points SP1, SP2, SP4 and to a depth greater than 2 feet bgs around sample point SP7. Based on the delineation soil sample analytical results, Oxy proposes to complete the following remediation activities:

- The impacted soil identified within the release area will be excavated. Excavation will proceed laterally and vertically until excavation sidewall and floor samples confirm all COC concentrations are compliant with the Site Closure Criteria.
  - 5-point composite soil samples will be collected from the sidewalls and floor of the final excavation extent. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing.
  - The excavation sidewall and floor samples will be collected at a frequency of every 200 square feet.
  - The excavation confirmation soil samples will be handled as described above and analyzed for BTEX, TPH, and chloride.
- The excavated soil will be transported to an approved landfill facility for disposal.
- Upon completion of excavation activities, the excavation will be backfilled with locally procured backfill and topsoil and recontoured to match pre-existing conditions. Since the well has been plugged and abandoned, a Reclamation Plan for the entire well pad and access road will be submitted to the NMSLO upon closure approval of Incident Number nAPP2405244889.

Oxy will complete the excavation activities within 90 days of the date of approval of this *Work Plan* by the NMOCD. A *Closure Request* detailing the excavation activities will be submitted to the NMOCD and NMSLO upon completion of excavation activities and receipt of final laboratory analytical results.



Oxy USA Inc. Remediation Work Plan Twin Lakes SA Unit #046

Oxy believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater and respectfully requests approval of this *Work Plan* for Incident Number nAPP2405244889.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or <a href="mailto:acole@ensolum.com">acole@ensolum.com</a>.

Sincerely, **Ensolum**, **LLC** 

Hadlie Green Project Geologist

Aimee Cole Senior Managing Scientist

cc: Kalei Jennings, Oxy USA Inc. New Mexico State Land Office

### Appendices:

Figure 1 Site Receptor Map

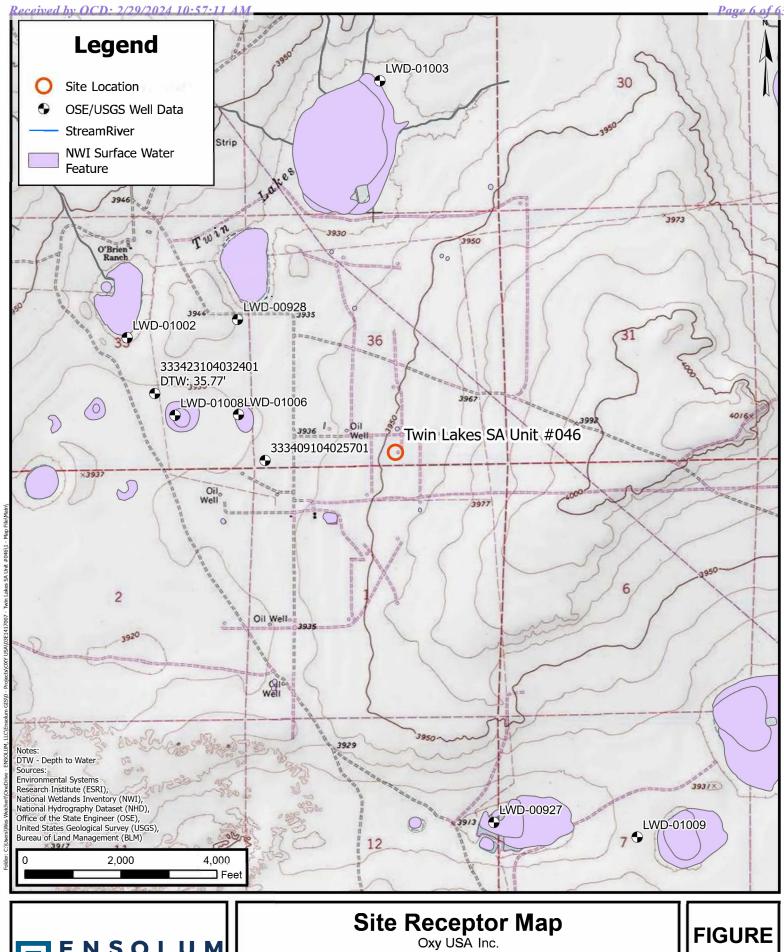
Figure 2 Delineation Soil Sample Locations
Figure 3 Proposed Excavation Extent
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic Soil Sampling Logs

Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation



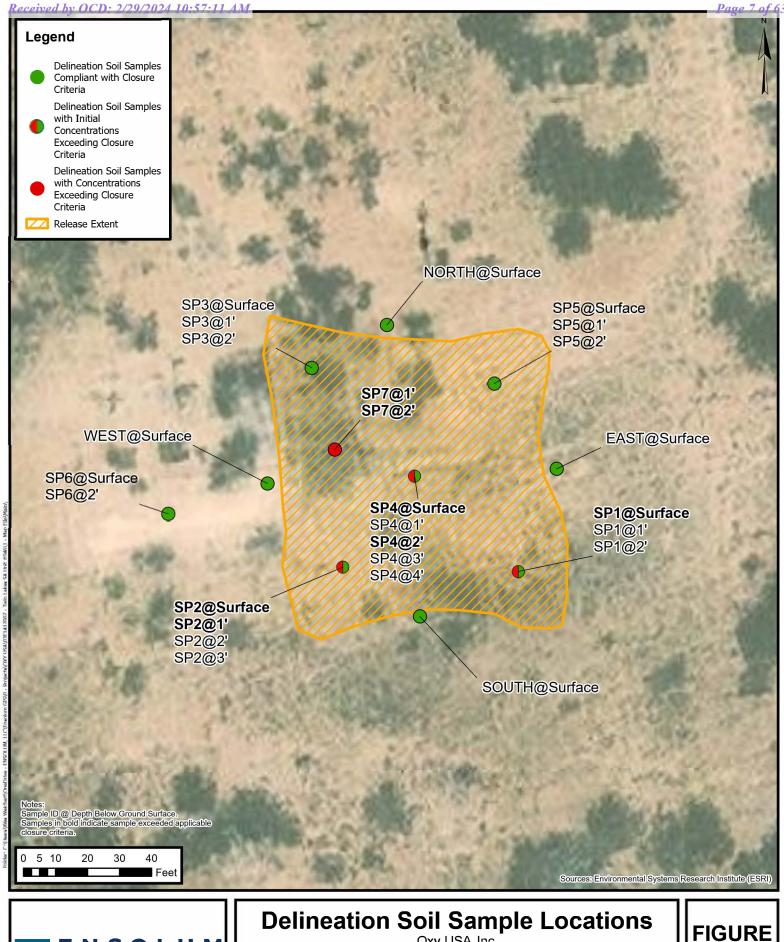
**FIGURES** 





Twin Lakes SA Unit #046 Incident Number: nAPP2405244889 Unit O, Sec 36, T08S, R28E Chaves County, New Mexico

Released to Imaging: 3/12/2024 2:04:12 PM

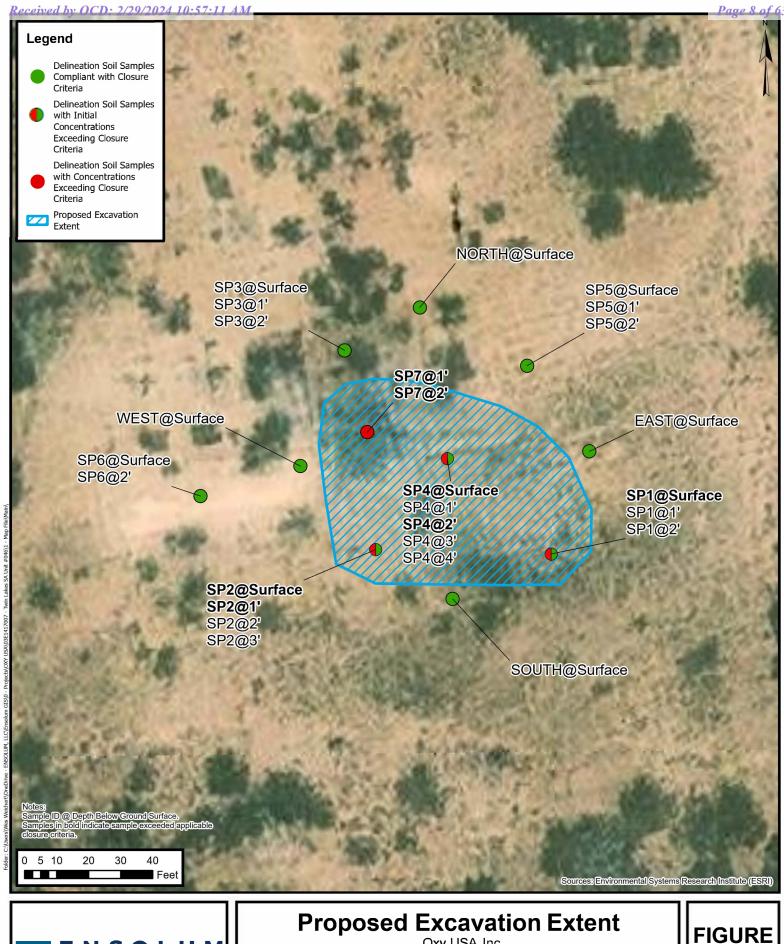




Oxy USA Inc.
Twin Lakes SA Unit #046
Incident Number: nAPP2405244889
Unit O, Sec 36, T08S, R28E
Chaves County, New Mexico

FIGURE 2

Released to Imaging: 3/12/2024 2:04:12 PM





Oxy USA Inc.

Twin Lakes SA Unit #046 Incident Number: nAPP2405244889 Unit O, Sec 36, T08S, R28E Chaves County, New Mexico IGURI 3

Released to Imaging: 3/12/2024 2:04:12 PM



**TABLES** 



## TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Twin Lakes SA Unit #046 Oxy USA Inc.

**Chaves County, New Mexico** 

Chaves Country, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table	l Closure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600		
				Delineation	Soil Samples							
North	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
East	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
West	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
South	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
SP1	11/03/2021	Surface	<0.050	<0.300	<10.0	127	<10.0	127	127	30,400		
SP1	11/03/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160		
SP1	11/03/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0		
SP2	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944		
SP2	11/03/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800		
SP2	11/03/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0		
SP2	11/03/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
SP3	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0		
SP3	11/03/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160		
SP3	11/03/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
SP4	11/03/2021	Surface	<0.050	<0.300	<50.0	1,940	1,100	1,940	3,040	2,880		
SP4	11/03/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352		
SP4	11/03/2021	2	<0.050	<0.300	<10.0	20.8	<10.0	20.8	20.8	880		
SP4	11/03/2021	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176		
SP4	11/03/2021	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0		
SP5	11/03/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0		
SP5	11/03/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0		
SP5	11/03/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112		



### TABLE 1

## SOIL SAMPLE ANALYTICAL RESULTS

Twin Lakes SA Unit #046
Oxy USA Inc.

**Chaves County, New Mexico** 

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table	NMOCD Table I Closure Criteria (NMAC 19.15.29)		10	50	NE	NE	NE	NE	100	600
SP6	01/30/2024	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SP6	01/30/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
SP7	01/30/2024	1	<0.050	<0.300	<10.0	557	783	557	1,340	464
SP7	01/30/2024	2	<0.050	<0.300	<10.0	561	714	561	1,275	288

#### Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes Concentrations in **bold** exceed the NMOCD Table I Closure

Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

USGS Home Contact USGS Search USGS Received by OCD: 2/29/2024 10:57:11 AM

**National Water Information System: Web Interface** 

ata Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO
				$\overline{}$

#### Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

■ Important: Next Generation Monitoring Location Page

#### Search Results -- 1 sites found

Agency code = usgs site no list =

• 333423104032401

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 333423104032401 08S.28E.35.41334

Chaves County, New Mexico

Latitude 33°34'23", Longitude 104°03'24" NAD27

Land-surface elevation 3,931 feet above NAVD88

The depth of the well is 157 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

### **Output formats**

able of data	
ab-separated data	
raph of data	
eselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1978-10-18			62610		3895.00	NGVD29	1	Ž	Z		
1978-10-18		С	62611		3896.86	NAVD88	1	Ž	7		
1978-10-18		C	72019	34.14			1	2	<u>z</u>		
1984-02-16		С	62610		3893.37	NGVD29	1	Ž	7		
1984-02-16			62611		3895.23	NAVD88	1	2	<u>z</u>		
1984-02-16		С	72019	35.77			1	2	7		

### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

Received by OCD: 2/29/2024 10:57:11 AM

#### U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u>

Page Last Modified: 2024-02-07 16:44:11 EST

0.36 0.31 nadww02



Received by OCD: 2/29/2024 10:57:11 AM



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng 08S 28E

X

3719179\*

**Driller License:** 1082

RA 09732

**Driller Company:** 

SPEARS, JACK DRILLING CO.

585283

**Driller Name:** 

SPEARS, JACK

**Drill Finish Date:** 

06/17/1999

Plug Date:

Shallow

Log File Date:

**Drill Start Date:** 

05/14/1999 06/22/1999

**PCW Rcv Date:** 

**Depth Well:** 

**Pump Type:** 

**Pipe Discharge Size:** 

Source: **Estimated Yield:** 

10 GPM

**Casing Size:** 

5.00

922 feet

Depth Water:

600 feet

Water Bearing Stratifications:

**Bottom Description** Top

862

920 Shallow Alluvium/Basin Fill

**Casing Perforations:** 

**Bottom** 

922

832

Top

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.

2/7/24 2:46 PM

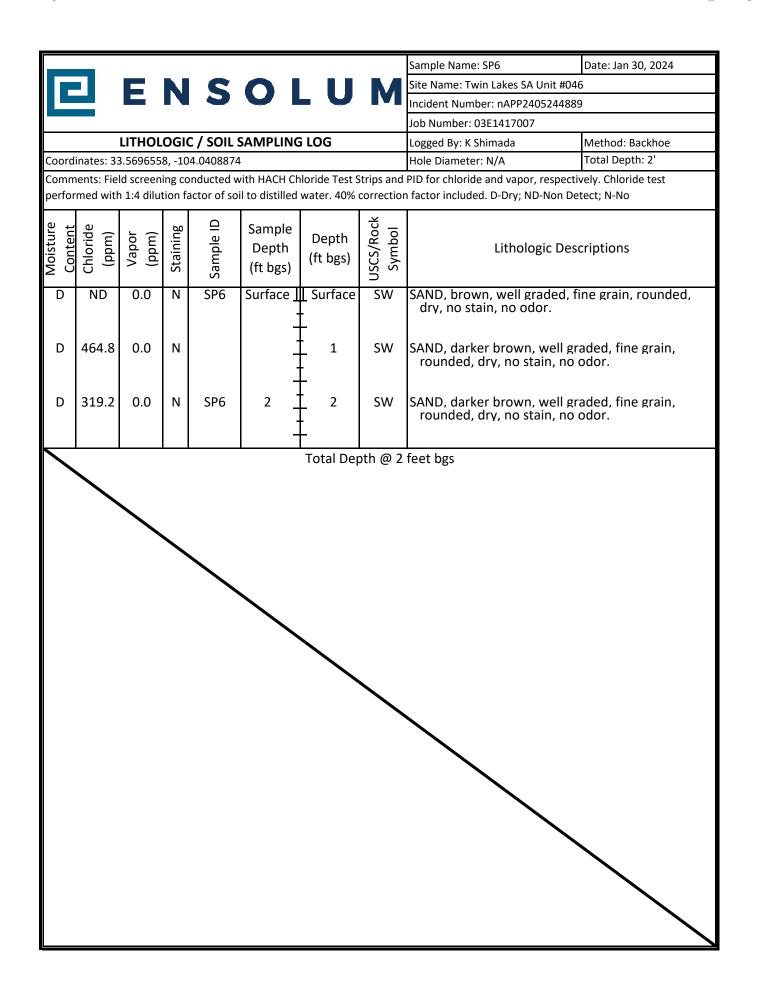
POINT OF DIVERSION SUMMARY

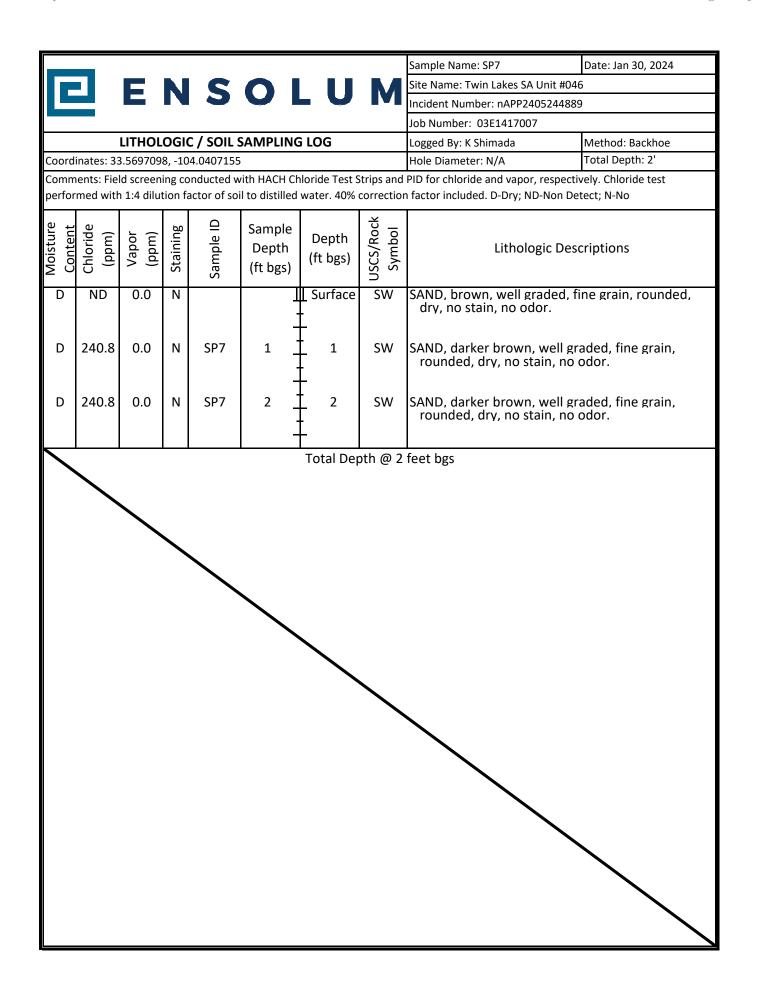
<sup>\*</sup>UTM location was derived from PLSS - see Help



**APPENDIX B** 

Lithologic Soil Sampling Logs







APPENDIX C

Photographic Log

# **ENSOLUM**

# Photographic Log Oxy USA Inc.

Twin Lakes SA Unit #046
Incident Number nAPP2405244889





Photograph 1 Date: 01/30/2024

Description: Delineation activities

View: Northeast

Photograph 2

Description: View of well pad View: Northeast





Photograph 3

Description: View of well pad View: Southeast

Date: 01/30/2024

Photograph 4

Description: View of well pad

View: East

Date: 01/30/2024

Date: 01/30/2024



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



November 11, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWIN LAKES SAN ANDRES UNIT #46

Enclosed are the results of analyses for samples received by the laboratory on 11/09/21 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - NEW MEXICO

#### **Sample ID: SP NORTH (H213169-01)**

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	0.389	
Toluene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	3.46	
Total Xylenes*	<0.150	0.150	11/09/2021	ND	6.37	106	6.00	2.50	
Total BTEX	<0.300	0.300	11/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 69.9-14	0						
Chloride, SM4500Cl-B		/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/10/2021	ND	416	104	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	110	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: OXY - NEW MEXICO

ma/ka

#### Sample ID: SP EAST (H213169-02)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	0.389	
Toluene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	3.46	
Total Xylenes*	<0.150	0.150	11/09/2021	ND	6.37	106	6.00	2.50	
Total BTEX	<0.300	0.300	11/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 69.9-14	0						
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	11/10/2021	ND	416	104	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	110	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	110	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - NEW MEXICO

#### Sample ID: SP WEST (H213169-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	0.389	
Toluene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	3.46	
Total Xylenes*	<0.150	0.150	11/09/2021	ND	6.37	106	6.00	2.50	
Total BTEX	<0.300	0.300	11/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.9-14	0						
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	11/10/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	12						

#### Cardinal Laboratories

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

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: OXY - NEW MEXICO

ma/ka

#### Sample ID: SP SOUTH (H213169-04)

RTFY 8021R

1EX 8021B	mg,	тд/кд		а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	0.389	
Toluene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	3.46	
Total Xylenes*	<0.150	0.150	11/09/2021	ND	6.37	106	6.00	2.50	
Total BTEX	<0.300	0.300	11/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (I	PID 96.3	% 69.9-14	10						
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	11/10/2021	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.3-13	23						
Surrogate: 1-Chlorooctadecane	111 9	% 38.9-14	12						

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: **OXY - NEW MEXICO** 

#### Sample ID: SP 1 @ SURFACE (H213169-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	0.389	
Toluene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	2.96	
Ethylbenzene*	<0.050	0.050	11/09/2021	ND	2.10	105	2.00	3.46	
Total Xylenes*	<0.150	0.150	11/09/2021	ND	6.37	106	6.00	2.50	
Total BTEX	<0.300	0.300	11/09/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 69.9-14	0						
loride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	127	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	115 %	6 44.3-13	3						
Surrogate: 1-Chlorooctadecane	132 9	38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

#### Sample ID: SP 1 @ 1' (H213169-06)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/10/2021	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	113	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

#### Sample ID: SP 1 @ 2' (H213169-07)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
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	11/10/2021	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	108	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - NEW MEXICO

#### Sample ID: SP 2 @ SURFACE (H213169-08)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	11/10/2021	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	11/10/2021	ND	226	113	200	15.2	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	211	106	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

#### Sample ID: SP 2 @ 1' (H213169-09)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2021	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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	98.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.6	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: OXY - NEW MEXICO

#### Sample ID: SP 2 @ 2' (H213169-10)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
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	11/10/2021	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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	109	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	109	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: **OXY - NEW MEXICO** 

#### Sample ID: SP 2 @ 3' (H213169-11)

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	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 69.9-14	0						
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	11/10/2021	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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	104 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	105 9	38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - NEW MEXICO

#### Sample ID: SP 3 @ SURFACE (H213169-12)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/10/2021	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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.3	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



#### Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: **OXY - NEW MEXICO** 

#### Sample ID: SP 3 @ 1' (H213169-13)

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	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/10/2021	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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	108 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	110 9	% 38.9-14	2						

#### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - NEW MEXICO

# Sample ID: SP 3 @ 2' (H213169-14)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107	% 38.9-14	12						

# Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Applyzod By: MC

Project Location: **OXY - NEW MEXICO** 

# Sample ID: SP 4 @ SURFACE (H213169-15)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d 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	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	1940	50.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	1100	50.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	123	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	185	% 38.9-14	2						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

# Sample ID: SP 4 @ 1' (H213169-16)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	107	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107	% 38.9-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Freene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: **OXY - NEW MEXICO** 

# Sample ID: SP 4 @ 2' (H213169-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	20.8	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	104 %	44.3-13	3						
Surrogate: 1-Chlorooctadecane	105 9	38.9-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: OXY - NEW MEXICO

# Sample ID: SP 4 @ 3' (H213169-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	99.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

# Sample ID: SP 4 @ 4' (H213169-19)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106	% 38.9-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: Sampling Type: Soil 11/11/2021

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: **OXY - NEW MEXICO** 

# Sample ID: SP 5 @ SURFACE (H213169-20)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	101 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101 9	% 38.9-14	2						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: OXY - NEW MEXICO

# Sample ID: SP 5 @ 1' (H213169-21)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	106	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	107	% 38.9-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 11/09/2021 Sampling Date: 11/03/2021

Reported: 11/11/2021 Sampling Type: Soil

Project Name: TWIN LAKES SAN ANDRES UNIT #46 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - NEW MEXICO

mg/kg

# Sample ID: SP 5 @ 2' (H213169-22)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2021	ND	2.13	106	2.00	3.08	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	3.27	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.02	101	2.00	3.71	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.16	103	6.00	3.61	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/10/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2021	ND	189	94.3	200	5.48	
DRO >C10-C28*	<10.0	10.0	11/10/2021	ND	200	99.8	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	11/10/2021	ND					
Surrogate: 1-Chlorooctane	112	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111	% 38.9-14	2						

# Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



# **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.

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

Received by OCD: 2/29/2024 10:57:11 AM

Sampler - UPS - Bus - Other:

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.										1	3//	LL TO							ANA	LYS	IS F	₹EQ	UES	ST	_	_	_
T. 170	r: Cliff Brunson								0. #		0	h															
Address: P.O.								Co	mp	any	4	MAN															
City: Hobbs	State: NM	Zip	: 8	824	1			At				J															
Phone #: 575-3								Ad	idre	ess:																	
Project #:	Project Owner							Cit	ty:																		
Project Wame:	TWIN LAKES SAN ANDRES UNI	Г #4	6					St	ate:			Zip:															
Project Location								Ph	non	e #:															1		
Sampler Name:								Fa	x#																1		
FOR LAB USE ONLY	Cilvion	1	Г		M	IATR	IX		PR	RESE	RV.	SAMPL	ING												1		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLIDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	3	3	BTEX	松松										
float stell	SP NORTH	P	1			1				1		11/3/21	9:40AM	١,	/	1	1	-	-	+	+	$\dashv$		-	+	+	-
2	SP EAST	1							1	1	L	11/3/21	9:57AM	ŀ	<b>/</b>	<b>√</b>	1	-	-	-	+	$\dashv$		+	+	+	+
Suc	SP WEST								1	1		11/3/21	10:10AM	-	<b>/</b>	1	1	-	+	+	+	$\dashv$		+	+	+	_
4	SP SOUTH	1	П				+	1	1	$\perp$	-	11/3/21	10:23AM	-	<b>/</b>	٧,	V	-	+	+	+			1	+	1	
5	SP 1 @ SURFACE		П		_	1	+	1	1	1		11/3/21	10:40AM	-	٧,	1	1	-	+	+	+	$\dashv$					
6	SP 1 @ 1'	Н	Н		_	1	4	+	+	+		11/3/21	10:53AM 11:07AM	-	1	/	1	1	+-	+	+				1		
7	SP 1 @ 2'	$\mathbb{H}$	11	L		1	+	+	ł	+		11/3/21	11:18AM	-	/	1	1	$\vdash$		+	+						
8	SP 2 @ SURFACE	$\blacksquare$	Н	H	-	+	+	+	+	+		11/3/21	11:27AM	+	1	1	1										
9	SP 2 @ 1'	1	1	L		V	+	+	+	1	-	11/3/21	11:40AM	1	1	1	1										
10	SP 2 @ 2' and Damages. Cardinal's liability and client's exclusive remedy to	any cla	im ari	ing wh	ether b	pased in	n contr	ract or	tort, si	hall be	limite	d to the amount	paid by the client fo	or the		200											
PLEASE NOTE: Liability analyses. All claims inclusions	and Damages. Cardinal's liability and client's exclusive remedy to ding those for negligence and any other cause whatsoever shall b Cardinal be liable for incidental or consequental damages, includ-													the a saries	applicat L	bie											
affiliates or successors ari Relinquished E	ising out of or related to the performance of services hereunder by	Cardin	an, rega	ved	OI MIN	ither su	ch cla	im is b	ased	upon ar	ny of t	he above stated	Phone Re	esu		□ Ye		No No		l'I Pho							
Relinquished E	11-9-20 Time 30	R		ved		Ma	et	de	U	W.		akge	Fax Resu REMARK			□ Ye	ss l	3 140	Aut	.,,							
Delivered B	y: (Circle One) _ 9.6 c) C-	0.	5	2	Sam	iple (	Cond	ditio	n	CI		KED BY:															

Cool Intact
Yes Yes
No No

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Received by OCD: 2/29/2024 10:57:11 AM

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	0	_	_	_	_	-	1	7.5	E	211	L TO					ANA	LYSIS	REC	QUES	T		
	npany Name: BBC International, Inc. ject Manager: Cliff Brunson							0	0. #:		44	_ , _											
								P.0	J. #.		1	W. J.	-										1 1
Address: P.O.	Box 805							Co	mpa	iny:	V	XY	_										1 1
City: Hobbs	State: NM	Zip	: 8	824	11			Att	tn:														
Phone #: 575-3	397-6388 Fax #: 575	-39	7-0	397				Ad	dres	ss:													
Project #:	Project Owne	r: 0	ху					Cit	ty:														
Project #.	TWIN LAKES SAN ANDRES UNI	T #4	6					Sta	ate:			Zip:											1 1
Project Name:	n: NEW MEXICO							Phone #:															
								Fax #:															
Sampler Name: FOR LABUSE ONLY	SIMON	Т	Т		М	ATRI	Х	-	PRI		RV.	SAMPLI	NG										
Lab I.D. H213169	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SILIDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	3	STEX	四世							
MOUSIU !	SP 2 @ 3'	A	Ϊ			1	T			1		11/3/21	11:53AM		1	1			-	-	-	_	+
12	SP 3 @ SURFACE		1									11/3/21	12:47PM	1	1	1		_	-	-		_	+
			11	Г								11/3/21	1:03PM	1	1	1		_	1	-			-
14	SP 3 @2'		П									11/3/21	1:14PM	1	1	1		_	-	-			+-
17	SP 4 @ SURFACE		П									11/3/21	1:22PM	1	1	1		_	-	-			-
13	SP 4 @ 1'	П	П		П		T					11/3/21	1:34PM	1	1	1		_	-	-			+
	SP 4 @ 2'		11									11/3/21	1:42PM	1	1	1			1	-			-
1,0	SP 4 @ 3'	H	11	1								11/3/21	1:51PM	1	1	1		_	1	-		_	
10	SP 4 @ 4'		1	1			T			1		11/3/21	2:02PM	1	1	1		_	1	-			-
	OD F @ CUDEACE	d	1	,		4	cont	ract or	11/3/21 2:10PM act or tort, shall be limited to the amount paid by the client fo						1	1							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the altitude as a better than a be

affiliates or successors arising out of or related to the performa	ince of services hereunder by C	ardinal, regardless of whether soon claim is bas	ed open any or an	Phone Result:	☐ Yes	□ No	Add'l Phone #:
Relinquished By:	Date: 9-21	Received By:	///////////	Fay Result	☐ Yes	□ No	Add'l Fax #:
< 0 >	Time: 2.0	Jamara 4	Make	REMARKS:			
3	1000	Summa 4	early of				
Relinquished By:	Date:	Received By:					
	Time:						
Delivered By: (Circle One)	9.60 C-	O.Sc Sample Condition	CHECKED BY: (Initials)				
Sampler - UPS - Bus - Other:	-10.1c	Yes Yes	V.O.				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Received by OCD: 2/29/2024 10:57:11 AM

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	G11 7/1		DII	L TO					ANA	LYSIS	KEC	MES			
	004	_	DIL	210											
	-	_	-	1111		1				1 1					
	Comp	pany	: 6	XY											
	Attn:			,											
	Addre	ess:													
	City:														
	State	:	- 7	Zip:											
	Phon	ne #:		-											
						1									
MATRIX			RV.	SAMPLI	ING	1									
SOIL	OTHER:	ICE / COOL	OTHER:	DATE	TIME	づ	BTEX	TPHEX							
1		1		The second second			1	<b>V</b>		-	-			_	-
7		1		11/3//21	2:31PM	1	1	<b>√</b>		-	-	-		-	-
										-	-	-	-		-
						_				-	-	-		-	
										-	-	-		-	-
										+	-	-			-
						-		_		+-	-	-			-
								_		-	-	-		_	-
										-	-	-			_
	1	Compatition Address of the Congress of the Con	Attn: Address: City: State: Phone #: Fax #: MATRIX PRESI  VOID/BASE: VOID/BAS	Company:  Attn: Address: City: State: Phone #: Fax #:  MATRIX PRESERV.  ACID/BASEN 100 / 1	Company: QX U Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV: SAMPLI  DATE 11/3//21 11/3//21	Company: QXU Attn: Address: City: State: Zip: Phone #: Fax #:  MATRIX PRESERV. SAMPLING  DATE TIME 11/3/21 2:31PM	Company: Q X U  Attn:  Address: City: State: Zip: Phone #: Fax #:  MATRIX PRESERV. SAMPLING  DATE TIME  11/3/21 2:19PM	Company: QX U Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING  11/3/21 2:31PM   11/3//21 2:31PM   11/3//21 2:31PM	Company: QX U Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV: SAMPLING  11/3/21 2:31PM  11/3//21 2:31PM  11/3//21 2:31PM	Company: QXU Attn:  Address: City: State: Zip: Phone #: Fax #:  MATRIX PRESERV. SAMPLING  11/3/21 2:19PM  11/3//21 2:31PM  11/3//21 2:31PM	Company: QXU Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING  DATE TIME  11/3/21 2:31PM   11/3//21 2:31PM   11/3//21 2:31PM	Company: QX V Attn: Address: City: State: Zip: Phone #: Fax #:  MATRIX PRESERV. SAMPLING  11/3/21 2:19PM  11/3//21 2:31PM   V V	Company: Q X U Attn:  Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING  11/3/21 2:19PM	Company:	Company:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited by an analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicabilities. In one vert shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be limited to the performance of services between the claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: Received By:  Time: 0 30  Date: Received By:	Phone Result: Fax Result: REMARKS:	Yes No	Add'l Fax #:
Relinquished By:  Delivered By: (Circle One)	Time:	HECKED BY:		
D - Other	-10.1c #113 No No	Y 0.		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



February 04, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TWIN LAKES SA UNIT #046

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 10:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 02/01/2024 Sampling Date: 01/30/2024

Reported: 02/04/2024 Sampling Type: Soil

Project Name: TWIN LAKES SA UNIT #046 Sampling Condition: Cool & Intact
Project Number: 03E1417007 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: OXY- CHAVES COUNTY, NM

mg/kg

# Sample ID: SP 6 SURFACE (H240475-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y : 3 : 1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.20	110	2.00	9.52	
Toluene*	<0.050	0.050	02/01/2024	ND	2.28	114	2.00	10.4	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.41	120	2.00	9.83	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	7.22	120	6.00	10.1	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	197	98.3	200	1.42	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	213	106	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



# Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 02/01/2024 Sampling Date: 01/30/2024

Reported: 02/04/2024 Sampling Type: Soil

Project Name: TWIN LAKES SA UNIT #046 Sampling Condition: Cool & Intact Project Number: 03E1417007 Sample Received By: Shalyn Rodriguez

Project Location: OXY- CHAVES COUNTY, NM

# Sample ID: SP 6 2' (H240475-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/01/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.39	107	6.00	1.50	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2024	ND	197	98.3	200	1.42	
DRO >C10-C28*	<10.0	10.0	02/01/2024	ND	213	106	200	5.11	
EXT DRO >C28-C36	<10.0	10.0	02/01/2024	ND					
Surrogate: 1-Chlorooctane	82.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.2	% 49.1-14	8						

### Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 02/01/2024 Sampling Date: 01/30/2024

Reported: 02/04/2024 Sampling Type: Soil

Project Name: TWIN LAKES SA UNIT #046 Sampling Condition: Cool & Intact
Project Number: 03E1417007 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: OXY- CHAVES COUNTY, NM

ma/ka

# Sample ID: SP 7 1' (H240475-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/01/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.39	107	6.00	1.50	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	197	98.3	200	1.42	
DRO >C10-C28*	557	10.0	02/02/2024	ND	213	106	200	5.11	
EXT DRO >C28-C36	783	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

# Cardinal Laboratories \*=Accredited Analyte

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

Celeg & Freene



# Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 02/01/2024 Sampling Date: 01/30/2024

Reported: 02/04/2024 Sampling Type: Soil

Project Name: TWIN LAKES SA UNIT #046 Sampling Condition: Cool & Intact
Project Number: 03E1417007 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: OXY- CHAVES COUNTY, NM

ma/ka

# Sample ID: SP 7 2' (H240475-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2024	ND	2.13	107	2.00	1.71	
Toluene*	<0.050	0.050	02/01/2024	ND	2.14	107	2.00	1.60	
Ethylbenzene*	<0.050	0.050	02/01/2024	ND	2.12	106	2.00	1.58	
Total Xylenes*	<0.150	0.150	02/01/2024	ND	6.39	107	6.00	1.50	
Total BTEX	<0.300	0.300	02/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/02/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/02/2024	ND	197	98.3	200	1.42	
DRO >C10-C28*	561	10.0	02/02/2024	ND	213	106	200	5.11	
EXT DRO >C28-C36	714	10.0	02/02/2024	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



# **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

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keene

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

Observed Temp. °CU.U Corrected Temp. °C

Sample Condition
Cool Intact
Pres Pres
No No

CHECKED BY:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



# (575) 393-2326 FAX (575) 393-2476

Project Manager: Aimon Colo		BILL TO	ANALYSIS REQUEST
-	100	P.O. #:	
Midi		Company: Oxy USA, Inc.	
ē	<b>State:</b> TX <b>Zip:</b> 79701	Attn: Wade Dittrich	
1	Fax #:	Address:	
Project #: 03 = 141 708 *	7 Project Owner:	City:	
Project Name: Twin Inkes		State: 7in:	
Project Location: Chaves Co	Cocinty	*	
1	1.00	Filone #: 070-300-2020	
FOR I AR I ISE ONLY		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	R (C)OMP. NERS WATER		ide
SCHOPE STANDING	(G)RAB O # CONTAI GROUND WASTEW SOIL OIL SLUDGE	OTHER: ACID/BASI ICE / COO OTHER: DATE	BTE) TPH Chlor
200		V 1/3474 1376	
4 45		S 45 + 1	×
1 73%	, , , , , , , , , , , , , , , , , , ,	1470/10	
040	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13024	<u>х</u> х
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
1. 10		(833)	
1 10	7	X 1/368/1 822	*
.EASE NOTE: Liability and Damages. Cardinal's liability and clieralyses. All claims including those for negligence and any other cover.  Nice. In no event shall Cardinal be liable for incidental or consequence.	LEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the envise. All claims including those for negligence and any other causes whatscover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	tort, shall be limited to the amount paid by the client for the spolicable serived by Cardinal within 30 days after completion of the applicable	
ffliates or successors arising out of or related to the performance of Relinquished By:	filiates of successors arising out of or related to the performance of services hereunded by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Relinquished By:	s of use, or loss of profils incurred by client, its subsidiaries, ased upon any of the above stated reasons or otherwise.	
2. 7. 1	Received By:		Verbal Result: ☐ Yes ② No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	87		.com
		REMARKS:	
	Time:		

<u>District I</u> 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

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**

QUESTIONS

Action 318589

# **QUESTIONS**

ı	Operator:	OGRID:
ı	OXY USA INC	16696
ı	P.O. Box 4294	Action Number:
ı	Houston, TX 772104294	318589
ı		Action Type:
ı		[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405244889
Incident Name	NAPP2405244889 TWIN LAKES SA UNIT #046 @ 30-005-60291
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-005-60291] TWIN LAKES SAN ANDRES UNIT #046

Location of Release Source			
Please answer all the questions in this group.			
Site Name	Twin Lakes SA Unit #046		
Date Release Discovered 11/01/2021			
Surface Owner	State		

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Other   Unknown   Crude Oil   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Other   Unknown   Produced Water   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered:
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Historical release, volume is unknown. Oxy is not the Operator of the Incident Well and has no independent knowledge of the facts or circumstances surrounding the nature, content or volume of any release(s), contemporaneous to any such release(s). All information submitted by Oxy herein is based on Oxy's present day observations of the site, and educated guesses based on those observations. Oxy submits this Notification of Release pursuant to an agreement with the New Mexico State Land Office, as lessee of record.

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

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

QUESTIONS, Page 2

Action 318589

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a 1 e, 14101 07 303
QUES'	TIONS (continued)
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696  Action Number:  318589  Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (	i.e. gas only) are to be submitted on the C-129 form.
Initial Response  The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Historical Release
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of leted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	r knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by a dequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Wada Dittriah

Title: Environmental Coordinator

Email: wade\_dittrich@oxy.com

Date: 02/28/2024

I hereby agree and sign off to the above statement

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

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**

QUESTIONS, Page 3

Action 318589

**QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	318589
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)	
What method was used to determine the depth to ground water	U.S. Geological Survey	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indi	cated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval wi	th this submission	Yes
Attach a comprehensive report demonstrating the late	eral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of conta	amination been fully delineated	Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the hi	ghest observable value for each, in mi	lligrams per kilograms.)
Chloride (EPA 300.	0 or SM4500 Cl B)	30400
TPH (GRO+DRO+MRO) (EPA SW-8	46 Method 8015M)	3040
GRO+DRO (EPA SW	-846 Method 8015M)	1940
BTEX (EPA SW	-846 Method 8021B or 8260B)	0
Benzene (EPA SW	-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the sill which includes the anticipated timelines for beginning		d efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
On what estimated date will the remediation	n commence	06/01/2024
On what date will (or did) the final sampling	or liner inspection occur	08/30/2024
On what date will (or was) the remediation of	complete(d)	08/30/2024
What is the estimated surface area (in square feet) that will be reclaimed		4500
What is the estimated volume (in cubic yard	s) that will be reclaimed	340
What is the estimated surface area (in squa	re feet) that will be remediated	4500
What is the estimated volume (in cubic yard	s) that will be remediated	340
These estimated dates and measurements are recogn	ized to be the best guess or calculation at th	e time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures	sures may have to be minimally adjusted in a	accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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** 

<u>District IV</u> 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

QUESTIONS, Page 4

Action 318589

**QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	318589
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Wade Dittrich Title: Environmental Coordinator Email: wade\_dittrich@oxy.com

Date: 02/28/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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** 

QUESTIONS, Page 5

Action 318589

# **QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	318589
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# QUESTIONS

# Deferral Requests Only Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. Requesting a deferral of the remediation closure due date with the approval of this No submission

<u>District I</u> 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

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** 

QUESTIONS, Page 6

Action 318589

<b>QUESTIONS</b>	(continued)
------------------	-------------

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	318589
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}
Pamadiation Clasura Paguaet	

No

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission

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

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 318589

# **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	318589
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

# CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	3/12/2024