



January 3, 2025

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
Twin Lakes SA Unit #036  
Incident Number nAPP2405245162  
Chaves County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* as a follow-up to the *Remediation Work Plan* (Work Plan) submitted to the New Mexico Oil Conservation Division (NMOCD) on February 29, 2024, and approved by NMOCD on March 11, 2024. This *Closure Request* documents assessment, excavation, and soil sampling activities performed at the Twin Lakes SA Unit #036 (Site) to address historical impacted soil identified at the Site. Based on the remediation activities completed as outlined in the approved *Work Plan*, Oxy is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2405245162.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit J, Section 36, Township 8 South, Range 28 East, in Chaves County, New Mexico (33.5734091, -104.0410697) 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 potential historical release area identified by the NMSLO. 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 nAPP2405245162.

Oxy is not the Operator of the Twin Lakes SA Unit #036 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 *Closure Request* pursuant to an agreement with the NMSLO, as lessee of record.

Oxy USA Inc.  
Closure Request  
Twin Lakes SA Unit #036

## CULTURAL PROPERTIES PROTECTION

A portion of the excavation encroached into pasture areas; therefore, the Cultural Properties Protection Rule (CPP) was followed prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review and pedestrian survey were completed at the Site. No cultural resources were identified within or around the release extent. A Cultural Resources Cover Sheet and email correspondence with the SLO Cultural Resource Office are attached as Appendix A.

## 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 desktop review were detailed in the approved *Work Plan* and summarized in the NMOCD permitting portal, Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

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

- 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

As detailed in the *Work Plan*, BBC and Ensolum personnel were at the Site during November 2021 and January 2024, to evaluate the 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 five sample points (SP1 through SP5) within the suspected release extent, to delineate the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 3 feet bgs. Discrete delineation soil samples were collected from sample points SP1 through SP5 at depths ranging from the ground surface to 3 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 C.

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-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 visit and a photographic log is included in Appendix D.

Oxy USA Inc.  
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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 SP1 and SP2, 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 SP3, SP4, and SP5 indicated that chloride or TPH concentrations exceeded the Site Closure Criteria at depths ranging from the ground surface to 3 feet bgs. Laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix E.

Based on the soil sample analytical results, excavation activities were completed at the Site as proposed in the approved *Work Plan*.

## EXCAVATION ACTIVITIES

Between April and December 2024, BBC completed excavation of impacted soil around sample points SP3, SP4, and SP5, as outlined in the approved *Work Plan*. Excavation activities were performed utilizing a track-mounted backhoe and transport vehicles. The excavation was completed to depths ranging from 0.5 feet to 6 feet bgs.

Following removal of impacted soil, BBC collected 5-point composite soil samples every 200 square feet from the floor and sidewalls of the excavation. Composite soil samples BOTTOM 1 through BOTTOM 14 were collected from the floor of the excavation at depths ranging from 0.5 feet to 6 feet bgs. Composite soil samples SIDEWALL 1 through SIDEWALL 13 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3. Photographic documentation was completed during the excavation activities and a photographic log is included in Appendix D.

Laboratory analytical results for excavation floor samples BOTTOM 1 through BOTTOM 14 and excavation sidewall samples SIDEWALL 1 through SIDEWALL 13, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation was required. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix E.

The excavation measured approximately 2,700 square feet in areal extent. A total of approximately 350 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Gandy Marley Inc. (GMI) landfill located in Roswell, New Mexico.

## RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled with locally procured soil. One representative 5-point composite sample (BACKFILL) was collected from the backfill material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/k) and TPH concentrations less than 100 mg/kg. Photographs of the backfilled excavation are provided in Appendix D. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix E.

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Following backfill activities, the disturbed area was recontoured to match the surrounding topography. The reclaimed excavation area will be seeded during the Spring of 2025 when temperatures and precipitation are more conducive to vegetation growth. The Site will be seeded with the below NMSLO loamy sites seed mix at the rate specified in pounds of pure live seed (PLS) per acre.

Common Name	Variety	PLS/Acre
Black grama	VNS, Southern	1.0
Blue grama	Lovington	1.0
Sideoats grama	Vaughn, El Reno	4.0
Sand dropseed	VNS, Southern	2.0
Alkali sacaton	VNS, Southern	1.0
Little bluestem	Cimarron, Pastura	1.5

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled and the seed will be raked in by chaining or dragging the Site.

The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the NMSLO seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.

A *Revegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed excavation area has uniform vegetative cover that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

The Twin Lakes SA Unit #036 oil and gas well has been plugged and abandoned and the well pad requires final reclamation activities. Upon closure approval of Incident Number nAPP2405245162, a detailed *Reclamation Plan* will be submitted to the NMSLO proposing final reclamation activities for the entire well pad and access road.

## CLOSURE REQUEST

As outlined in the approved *Work Plan*, excavation activities were conducted to address the historical impacted soil identified at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Based on excavation and soil sampling activities completed as outlined in the *Work Plan*, no further remediation is required.

Excavation of impacted soil has mitigated impacts at this Site. Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAPP2405245162.



Oxy USA Inc.  
Closure Request  
Twin Lakes SA Unit #036

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Hadlie Green  
Project Geologist



Aimee Cole  
Senior Managing Scientist

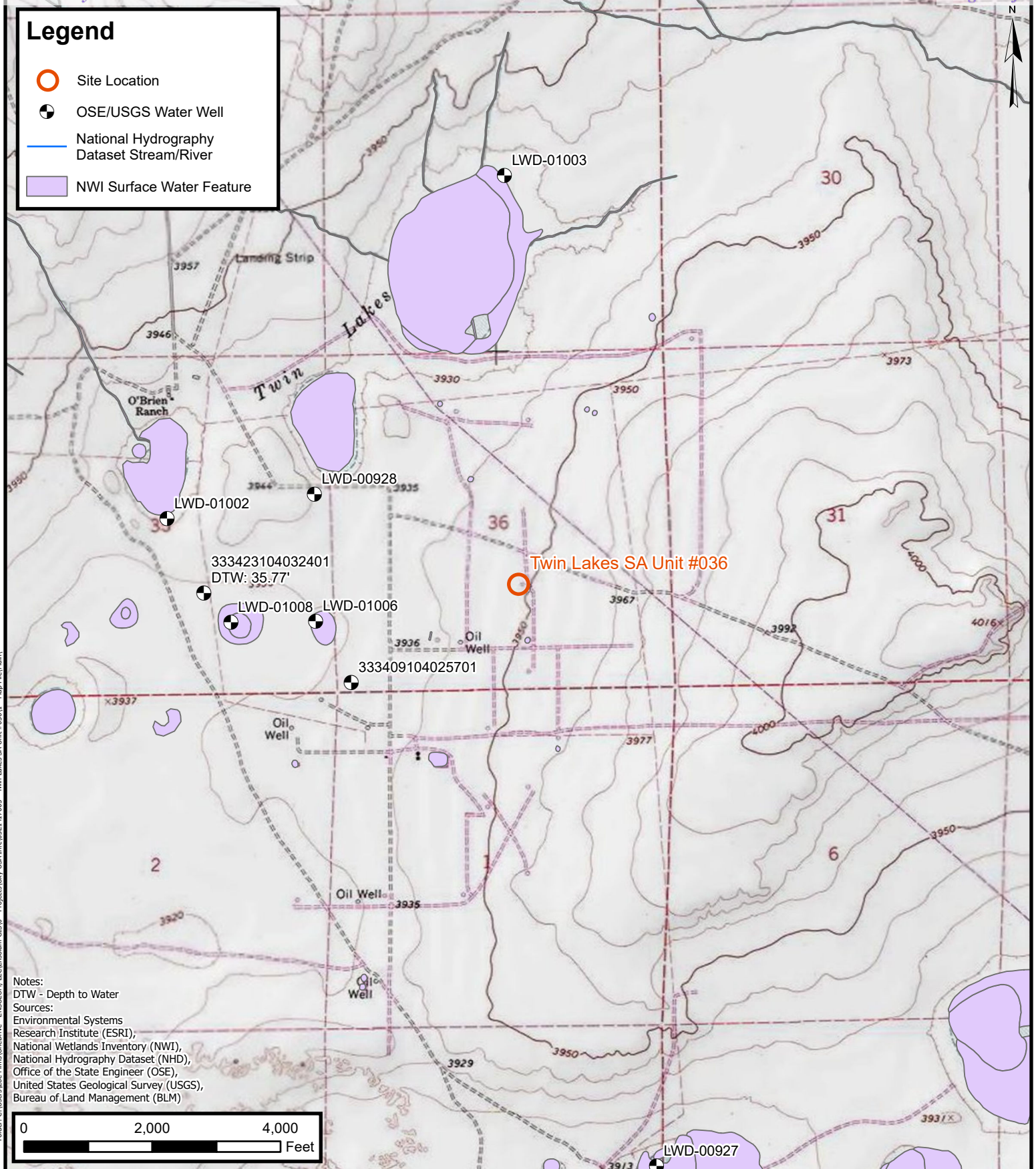
cc: Wade Dittrich, Oxy USA Inc.  
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	NMSLO Cultural Resources Cover Sheet
Appendix B	Referenced Well Records
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence



FIGURES



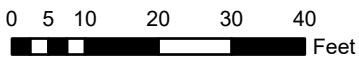


### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- ● Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent



Notes:  
Sample ID @ Depth Below Ground Surface.  
Samples in bold indicate sample exceeded applicable closure criteria.  
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

Oxy USA Inc.  
Twin Lakes SA Unit #036  
Incident Number: nAPP2405245162  
Unit J, Section 36, T 08S, R 28E  
Chaves County, New Mexico

FIGURE

2



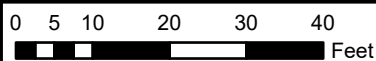


**Legend**

- Excavation Floor Sample  
in Compliance with  
Closure Criteria
- ▲ Excavation Sidewall  
Sample in Compliance  
with Closure Criteria
- ▨ Excavation Extent

**Notes:**

Sample ID @ Depth Below Ground Surface.  
BS - BOTTOM SAMPLE  
SW - SIDEWALL SAMPLE



Sources: Environmental Systems Research Institute (ESRI)

**Excavation Soil Sample Locations**

Oxy USA Inc  
Twin Lakes San Andres Unit #036  
Project Number: 03E1417005  
Unit J, Section 36, T 08S, R 28E  
Chaves County, New Mexico

**FIGURE****3**





TABLES



<b>TABLE 1</b> <b>SOIL SAMPLE ANALYTICAL RESULTS</b> Twin Lakes SA Unit #036 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 I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
North	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
East	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
West	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
South	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP1	11/10/2021	Surface	<0.050	<0.300	<10.0	55.6	20.1	55.6	75.7	32.0
SP1	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SP1	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP2	11/10/2021	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP2	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SP2	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP3	11/10/2021	Surface	<0.050	<0.300	<10.0	290	130	290	420	208
SP3	11/10/2021	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SP3	11/10/2021	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP4	01/30/2024	Surface	<0.050	<0.300	<50.0	4,150	3,280	4,150	7,430	240
SP4	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SP4	01/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
SP5	01/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,000
SP5	01/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,240
Excavation Floor Soil Samples										
BOTTOM 1	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 2	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 3	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BOTTOM 4	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Twin Lakes SA Unit #036 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 I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BOTTOM 5	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BOTTOM 6	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 7	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BOTTOM 8	11/20/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 9	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BOTTOM 10	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 11	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BOTTOM 12	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BOTTOM 13	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BOTTOM 14	11/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Excavation Sidewall Soil Samples										
SIDEWALL 1	11/20/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 2	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SIDEWALL 3	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 4	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 5	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 6	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 7	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 8	11/20/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 9	11/20/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 10	11/20/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Twin Lakes SA Unit #036 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 I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SIDEWALL 11	11/20/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 12	11/20/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SIDEWALL 13	11/20/2024	0 - 0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Backfill Soil Sample										
BACKFILL	10/02/2024	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

**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

**Grey** text represents samples that have been excavated



## APPENDIX A

### NMSLO Cultural Resources Cover Sheet

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Stephanie Garcia Richard, Commissioner of Public Lands  
State of New Mexico

## NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:**

(if applicable)

**Exhibit Type** (select one)

**ARMS Inspection/Review** - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

**Archaeological Survey**

**Findings:**

**Negative** - No further archaeological review is required.

**Positive** - Have avoidance and protection measures been devised? Select one:

**Comments:**

**Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

**Project Location:**

County(ies):

PLSS/Section/Township/Range):

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**For NMSLO Agency Use Only:**

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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*No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.*

Form Revised 12 22

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**From:** Curry, Anne R. <[acurry@slo.state.nm.us](mailto:acurry@slo.state.nm.us)>  
**Sent:** Monday, August 5, 2024 4:21 PM  
**To:** Raina Hanley <[RHanley@bcarch.org](mailto:RHanley@bcarch.org)>  
**Subject:** RE: FOR CONSULTATION: Remediation of Oxy's Twin Lakes SA Unit #036 NMCRIS Activity 156095 (BCA24-1730)

Hi Raina,

I definitely looked at this report and sent our concurrence to SHPO (I remember the box turtle and the toad!) but I guess I forgot to respond to you-

Thank you for the submission of the attached Cover Sheet. Since the proposed remediation activities will take place in an area that has been covered by archaeological survey (NMCRIS 156095), Ensolum is free to move forward with remediation. Please reach out if you have additional questions-



**Anne Curry**

*Director of Cultural Resources  
& Archaeologist  
Cultural Resources Office  
505.469.5582*

New Mexico State Land Office  
310 Old Santa Fe Trail



P.O. Box 1148

Santa Fe, NM 87504-1148

[acurry@slo.state.nm.us](mailto:acurry@slo.state.nm.us)

[nmstatelands.org](http://nmstatelands.org)

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**From:** Raina Hanley <[RHanley@bcarch.org](mailto:RHanley@bcarch.org)>  
**Sent:** Monday, August 5, 2024 1:44 PM  
**To:** Curry, Anne R. <[acurry@slo.state.nm.us](mailto:acurry@slo.state.nm.us)>  
**Subject:** [EXTERNAL] FW: FOR CONSULTATION: Remediation of Oxy's Twin Lakes SA Unit #036 NMCRIS Activity 156095 (BCA24-1730)

Hello again, Anne,

Sending this one directly to you too.

**Raina Hanley**  
*Chief Operating Officer*

Beaver Creek Archaeology & Environmental  
1632 Capitol Way  
Bismarck, ND 58501  
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental  
712 West Quay Avenue  
Artesia, NM 88210  
Ph: (575) 746-6142 | Fx: (701) 663-5589



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**From:** Raina Hanley  
**Sent:** Wednesday, July 17, 2024 4:24 PM  
**To:** CRO Info <[croinfo@slo.state.nm.us](mailto:croinfo@slo.state.nm.us)>  
**Subject:** FOR CONSULTATION: Remediation of Oxy's Twin Lakes SA Unit #036 NMCRIS Activity 156095 (BCA24-1730)

Good Afternoon,

Attached please find the following cultural resources cover sheet and negative report NIAF for your review for Ensolum on behalf of Oxy.

- A Class III Cultural Resource Inventory for Remediation Efforts at Oxy USA, Inc.'s Twin Lakes SA Unit #036 in Chaves County, New Mexico (BCA24-1730)
  - NMCRIS Activity No.: 156095

The NIAF and associated files have been submitted through NMCRIS.

Please let us know if you have any questions, concerns, or additional information needs.

Thank you!

Raina

**Raina Hanley**  
*Chief Operating Officer*

Beaver Creek Archaeology & Environmental  
1632 Capitol Way  
Bismarck, ND 58501  
Ph: (701) 663-5521 | Fx: (701) 663-5589

Beaver Creek Archaeology & Environmental  
712 West Quay Avenue  
Artesia, NM 88210  
Ph: (575) 746-6142 | Fx: (701) 663-5589



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## APPENDIX B

### Referenced Well Records

---





USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface


USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

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

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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		D	62610		3895.00	NGVD29	1	Z			A
1978-10-18		D	62611		3896.86	NAVD88	1	Z			A
1978-10-18		D	72019	34.14			1	Z			A
1984-02-16		D	62610		3893.37	NGVD29	1	Z			A
1984-02-16		D	62611		3895.23	NAVD88	1	Z			A
1984-02-16		D	72019	35.77			1	Z			A

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	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)  
[Automated retrievals](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)  
[News](#)



# 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	X	Y				
	RA 09732			1	22	08S	28E	585283	3719179*				
Driller License:		1082			Driller Company:			SPEARS, JACK DRILLING CO.					
Driller Name:		SPEARS, JACK											
Drill Start Date:		05/14/1999			Drill Finish Date:			06/17/1999		Plug Date:			
Log File Date:		06/22/1999			PCW Rcv Date:					Source:		Shallow	
Pump Type:					Pipe Discharge Size:					Estimated Yield:		10 GPM	
Casing Size:		5.00			Depth Well:			922 feet		Depth Water:		600 feet	
Water Bearing Stratifications:					Top	Bottom	Description						
					862	920	Shallow Alluvium/Basin Fill						
Casing Perforations:					Top	Bottom							
					832	922							

\*UTM location was derived from PLSS - see Help

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

2/7/24 2:46 PM


POINT OF DIVERSION SUMMARY




## APPENDIX C

### Lithologic Soil Sampling Logs

---

								Sample Name: SP4		Date: Jan 30, 2024	
								Site Name: Twin Lakes SA Unit #036			
								Incident Number:			
								Job Number: 03E1417005			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: K Shimada		Method: Backhoe	
Coordinates: 33.5733812, -104.0410209								Hole Diameter: N/A		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; ND-Non Detect; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	ND	1.3	N	SP4	Surface	Surface	SW	SAND, dark brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	767.2	0.0	N	SP4	1	1	SW	SAND, brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	700	0.0	N			2	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
D	767.2	0.0	N	SP4	3	3	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
Total Depth @ 3 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-top: 1px solid black;"></div>											



								Sample Name: SP5		Date: Jan 30, 2024	
								Site Name: Twin Lakes SA Unit #036			
								Incident Number:			
								Job Number: 03E1417005			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: K Shimada		Method: Backhoe	
Coordinates: 33.5734312, -104.0411131								Hole Diameter: N/A		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included. D-Dry; N-No											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	2201	0.0	N			Surface	SW	SAND, dark brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	2901	0.0	N	SP5	1	1	CL	SAND, brown, well graded, fine grain, rounded, dry, no stain, no odor.			
D	1562	0.0	N			2	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
D	1590	0.0	N	SP5	3	3	CL	CLAY, reddish brown, some sand, subrounded, dry, no stain, no odor.			
Total Depth @ 3 feet bgs											



## APPENDIX D

### Photographic Log

---

**Photographic Log**

Oxy USA Inc.

Twin Lakes SA Unit #036

Incident Number nAPP2405245162



Photograph 1

Date: December 2024

Description: View of the excavation area



Photograph 2

Date: December 2024

Description: View of the excavation area



Photograph 3

Date: December 2024

Description: View of the excavation area



Photograph 4

Date: December 2024

Description: View of the backfilled area





**Photographic Log**

Oxy USA Inc.

Twin Lakes SA Unit #036

Incident Number nAPP2405245162



Photograph 5

Date: December 2024

Description: View of the backfilled area



Photograph 6

Date: December 2024

Description: View of the backfilled area



## APPENDIX E

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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

November 27, 2024

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWIN LAKES SA UNIT #36

Enclosed are the results of analyses for samples received by the laboratory on 11/21/24 12:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a light gray rectangular background.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 1 @ 6' (H247135-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375	
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 2 @ 6' (H247135-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375		
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63		
Total BTX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 3 @ 6' (H247135-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375		
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63		
Total BTX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	202	101	200	3.65	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	197	98.6	200	4.08	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 4 @ 6' (H247135-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375		
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63		
Total BTX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 5 @ 6' (H247135-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375		
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63		
Total BTX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 6 @ 6' (H247135-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	1.94	97.1	2.00	0.375		
Toluene*	<0.050	0.050	11/25/2024	ND	2.01	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.00	99.8	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	5.90	98.3	6.00	1.63		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	220	110	200	1.70	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	203	101	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 7 @ 6' (H247135-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 8 @ 6' (H247135-08)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 9 @ 6" (H247135-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 10 @ 6" (H247135-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM 11 @ 6" (H247135-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM 12 @ 6" (H247135-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55	
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: BOTTOM 13 @ 6" (H247135-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM 14 @ 6" (H247135-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55	
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 1 (H247135-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDEWALL 2 (H247135-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55	
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69	
Total BTX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 3 (H247135-17)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 4 (H247135-18)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 5 (H247135-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEx	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 6 (H247135-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 7 (H247135-21)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDEWALL 8 (H247135-22)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55	
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69	
Total BTX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 9 (H247135-23)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 10 (H247135-24)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 11 (H247135-25)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEx	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/21/2024	Sampling Date:	11/20/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES SA UNIT #36	Sampling Condition:	Cool & Intact
Project Number:	NEW MEXICO	Sample Received By:	Tamara Oldaker
Project Location:	OXY - NEW MEXICO		

**Sample ID: SIDEWALL 12 (H247135-26)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2024	ND	2.10	105	2.00	1.55		
Toluene*	<0.050	0.050	11/25/2024	ND	2.15	107	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.09	105	2.00	1.55		
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.60	110	6.00	1.69		
Total BTEX	<0.300	0.300	11/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64		

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	11/25/2024	ND	209	104	200	2.85	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	195	97.4	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/21/2024  
 Reported: 11/27/2024  
 Project Name: TWIN LAKES SA UNIT #36  
 Project Number: NEW MEXICO  
 Project Location: OXY - NEW MEXICO

Sampling Date: 11/20/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDEWALL 13 (H247135-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2024	ND	2.17	109	2.00	3.78	
Toluene*	<0.050	0.050	11/25/2024	ND	2.08	104	2.00	5.42	
Ethylbenzene*	<0.050	0.050	11/25/2024	ND	2.20	110	2.00	5.91	
Total Xylenes*	<0.150	0.150	11/25/2024	ND	6.55	109	6.00	6.29	
Total BTEX	<0.300	0.300	11/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	ND	432	108	400	3.64	

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	11/25/2024	ND	196	98.0	200	0.240	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	181	90.5	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/2





# ~~ARDINAL~~ LABORATORIES

101 East Marland, Hobbs, NM 88240

**(505) 393-2326 FAX (505) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 32 of 32





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

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October 09, 2024

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWIN LAKES BACKFILL

Enclosed are the results of analyses for samples received by the laboratory on 10/03/24 15:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/03/2024	Sampling Date:	10/02/2024
Reported:	10/09/2024	Sampling Type:	Soil
Project Name:	TWIN LAKES BACKFILL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	OXY - NEW MEXICO		

**Sample ID: BACKFILL - TWIN LAKES (H246034-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2024	ND	2.08	104	2.00	0.543	
Toluene*	<0.050	0.050	10/04/2024	ND	2.16	108	2.00	8.11	
Ethylbenzene*	<0.050	0.050	10/04/2024	ND	2.32	116	2.00	11.9	
Total Xylenes*	<0.150	0.150	10/04/2024	ND	7.11	118	6.00	13.4	
Total BTEX	<0.300	0.300	10/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/04/2024	ND	384	96.0	400	8.00		

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	10/04/2024	ND	201	101	200	0.440	
DRO >C10-C28*	<10.0	10.0	10/04/2024	ND	190	95.2	200	0.976	
EXT DRO >C28-C36	<10.0	10.0	10/04/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

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

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> BBC International, Inc. <b>Project Manager:</b> Cliff Brunson <b>Address:</b> P.O. Box 805 <b>City:</b> Hobbs <b>Phone #:</b> 575-397-6388 <b>Project #:</b> <b>Project Name:</b> <i>Twins Lakes Backfill</i> <b>Project Location:</b> New Mexico <b>Sampler Name:</b> <i>Roger Hernandez</i>				<b>State:</b> NM <b>Zip:</b> 88241 <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>			
<b>FOR LAB USE ONLY</b>				<b>BILL TO</b>			
<b>Lab I.D.</b> <i>H440034</i>				<b>Sample I.D.</b> <i>Backfill - Twins Lakes</i>			
<b>Matrix</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				<b>PRESERV.</b> <b>SAMPLING</b>			
<b>DATE</b> <i>10-2-24</i>				<b>TIME</b> <i>1:00</i>			
<b>Relinquished By:</b> <i>Roger Hernandez</i> <b>Date:</b> <i>10-2-24</i> <b>Time:</b> <b>Relinquished By:</b> <i>Roger Hernandez</i> <b>Date:</b> <i>10-3-24</i> <b>Time:</b> <b>Received By:</b> <i>[Signature]</i> <b>Date:</b> <i>10-3-24</i> <b>Time:</b>				<b>ANALYSIS REQUEST</b>			
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: <i>10:00 / 140</i>				<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>CHECKED BY:</b> <i>AP</i>				<b>REMARKS:</b>			

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



## APPENDIX F

### NMOCD Correspondence

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**From:** [Buchanan, Michael, EMNRD](#)  
**To:** [Aimee Cole](#); [Wells, Shelly, EMNRD](#)  
**Cc:** [Dittrich, John W](#)  
**Subject:** RE: [EXTERNAL] Oxy USA Inc. - Extension Request - Twin Lakes SA Unit #036 (Incident # nAPP2405245162)  
**Date:** Friday, September 6, 2024 9:43:34 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Good morning, Aimee

The extension request for Twin Lakes SA Unit #036, # nAPP2405245162 is approved. The new due date to submit your remediation closure report to the OCD is December 03, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file. The incident has been updated online to reflect this new date.

Kind Regards,

---

**From:** Aimee Cole <acole@ensolum.com>  
**Sent:** Friday, September 6, 2024 10:15 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Dittrich, John W <Wade\_Dittrich@oxy.com>  
**Subject:** [EXTERNAL] Oxy USA Inc. - Extension Request - Twin Lakes SA Unit #036 (Incident # nAPP2405245162)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Oxy USA Inc. (Oxy) is requesting an extension of the current September 9, 2024, deadline for submitting a report required in 9.15.29.12.B.(1) NMAC detailing remedial actions at the Twin Lakes SA Unit #036 (Incident # nAPP2405245162).

Excavation activities were completed between April 22, 2024 and May 14, 2024. Based on the laboratory analytical results, the excavation needed to encroach into undisturbed areas. An ARMS review and archaeological survey were requested on May 17, 2024. No cultural properties were identified and the SLO Cultural Resource Office provided notice to proceed via email on August 5, 2024. Additionally, Oxy permitted and installed a soil boring within 0.5 miles of the site to confirm depth to groundwater prior to additional excavation activities.

A contractor has been secured to complete excavation activities at the eight remaining Twin Lakes

sites beginning the week of September 9, 2024. Due to project delays for the archaeological survey, permitting and drilling of a soil boring, and contractor availability, Oxy is requesting a 90-day extension of the current deadline to allow time to evaluate depth to groundwater, complete excavation and soil sampling activities, and prepare a closure report or revised remediation work plan.

Thank you,



**Aimee Cole**

Associate Principal

720-384-7365

**Ensolum, LLC**

**in f X**



**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Aimee Cole](#)  
**Cc:** [Bratcher, Michael, EMNRD](#); [Kalei\\_Jennings@oxy.com](mailto:Kalei_Jennings@oxy.com)  
**Subject:** RE: [EXTERNAL] Oxy USA Inc. - Extension Request - Twin Lakes SA Unit #036 (Incident # nAPP2405245162)  
**Date:** Monday, June 10, 2024 12:27:08 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

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[ \*\*EXTERNAL EMAIL\*\* ]

Good afternoon Aimee,

The extension request for NAPP2405245162 TWIN LAKES SA UNIT #036 is approved. The new due date to submit your remediation closure report to the OCD is September 9, 2024. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520|[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Aimee Cole <[acole@ensolum.com](mailto:acole@ensolum.com)>  
**Sent:** Monday, June 10, 2024 11:43 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Jennings, Kalei M <[Kalei\\_Jennings@oxy.com](mailto:Kalei_Jennings@oxy.com)>  
**Subject:** [EXTERNAL] Oxy USA Inc. - Extension Request - Twin Lakes SA Unit #036 (Incident # nAPP2405245162)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

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To Whom it May Concern,


Oxy USA Inc. (Oxy) is requesting an extension of the current June 10, 2024, deadline for submitting a report required in 9.15.29.12.B.(1) NMAC detailing remedial actions at the Twin Lakes SA Unit #036 (Incident # nAPP2405245162).

Excavation activities were completed between April 22, 2024 and May 14, 2024. Based on the most recent laboratory analytical results, the excavation will need to encroach into undisturbed areas. An ARMS review and archaeological pedestrian survey were requested on May 17, 2024. Additional excavation activities are pending the results of the archaeological survey and notice to proceed from the SLO Cultural Resource Office. Additionally, Oxy intends to drill a soil boring closer to the site to confirm depth to groundwater. The current available groundwater data is for a USGS well located approximately 0.9 miles from the site, at a lower elevation, and was most recently measured >25 years ago.

In order to allow time for the SLO to review the ARMS review and archaeological survey information, drill a soil boring to confirm depth to water, complete excavation activities, and prepare a closure report or revised remediation work plan, Oxy requests a 90-day extension until September 8, 2024.

Thank you,



**Aimee Cole**  
Associate Principal  
720-384-7365  
**Ensolum, LLC**  


Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 417190

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2405245162
Incident Name	NAPP2405245162 TWIN LAKES SA UNIT #036 @ 30-005-60329
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-005-60329] TWIN LAKES SAN ANDRES UNIT #036

**Location of Release Source**

Please answer all the questions in this group.

Site Name	TWIN LAKES SA UNIT #036
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 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.

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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 417190

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>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.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>False</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>Historical release</b>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 02/28/2024
--	--

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QUESTIONS, Page 3

Action 417190

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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

<b>Remediation Plan</b>	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	7430
GRO+DRO (EPA SW-846 Method 8015M)	4150
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation 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 complete(d)	08/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	750
What is the estimated volume (in cubic yards) that will be reclaimed	85
What is the estimated surface area (in square feet) that will be remediated	750
What is the estimated volume (in cubic yards) that will be remediated	85
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>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.</i>	

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 417190

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>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.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>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>	
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
<i>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.</i>	

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1220 S. St Francis Dr.  
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QUESTIONS, Page 5

Action 417190

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  417190
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 submission	No



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

QUESTIONS, Page 6

Action 417190

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	403594
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/20/2024
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	765

**Remediation Closure Request**

*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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2700
What was the total volume (cubic yards) remediated	350
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2700
What was the total volume (in cubic yards) reclaimed	350
Summarize any additional remediation activities not included by answers (above)	All impacted soil was excavated to the most stringent Table I Closure Criteria and backfilled with non-waste containing soil.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 01/06/2025
--	--

Sante Fe Main Office  
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QUESTIONS, Page 7

Action 417190

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 417190
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2700
What was the total volume of replacement material (in cubic yards) for this site	350
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	03/20/2025
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: <a href="mailto:wade_dittrich@oxy.com">wade_dittrich@oxy.com</a> Date: 01/06/2025

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Phone: (505) 476-3441

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1220 S. St Francis Dr.  
Santa Fe, NM 87505

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Action 417190

QUESTIONS (continued)

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  417190
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

Sante Fe Main Office  
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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 417190

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
crystal.walker	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	1/8/2025
crystal.walker	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	1/8/2025