

Incident ID	NRM2028955593
District RP	
Facility ID	
Application ID	

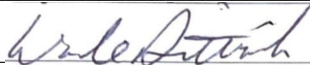
Closure

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

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

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

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

Printed Name: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 06/06/2023email: Wade_Dittrich@oxy.comTelephone: 575-390-2828

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: Date: 08/31/2023Printed Name: Nelson VelezTitle: Environmental Specialist – Adv

Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or drilling operations.

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Oil Conservation Division

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Site Assessment/Characterization*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	74 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 1-5-21email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

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Remediation Plan


Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 1-5-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD OnlyReceived by: Chad Hensley Date: 03/24/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 03/24/2021

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2028955593
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Facility ID	
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Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.22382 Longitude W 103.81335
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	SAND DUNES SOUTH CORRIDOR CTB	Site Type	BATTERY
Date Release Discovered	9-22-2020	API# (if applicable)	

Unit Letter	Section	Township	Range	County
B	18	T24S	R31E	EDDY COUNTY, NM

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 20 BBLS	Volume Recovered (bbls) 0 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

TANK #1 BLEW A SEAL CAUSING OIL TO LEAK FROM PUMP

Form C-141

State of New Mexico
Oil Conservation Division

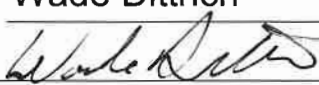
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Wade Dittrich</u> Signature: <u></u> email: <u>wade_dittrich@oxy.com</u>	Title: <u>Environmental Coordinator</u> Date: <u>9-23-2020</u> Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>10/15/2020</u>	

Trinity Oilfield Services & Rentals, LLC



June 6th, 2023

Oil Conservation Division, District II
811 South First Street,
Artesia, New Mexico 88210

Re: **Closure Request**
Sand Dunes South Corridor CTB
Tracking #: NRM2028955593

Trinity Oilfield Services (Trinity), on behalf of OXY USA, Inc., hereby submits the following Closure Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information	
Incident ID	NRM2028955593
Site Name	Sand Dunes South Corridor CTB
Company	OXY USA, Inc.
County	Eddy
ULSTR	B-18-24S-31E
GPS Coordinates (NAD 83)	32.22382,-103.81335
Landowner	Federal

HISTORICAL RELEASE BACKGROUND

On 10/14/2020, OXY USA, Inc. reported a release at the Sand Dunes South Corridor CTB. The release was caused when Tank #1 blew a seal causing oil to leak from pump. Approximately 6,267 sqft. of the Pad was found to be damp upon initial inspection.

Release Information	
Date of Release	9/22/2020
Type of Release	Crude Oil
Source of Release	Equipment Failure
Volume Released – Produced Water	0 bbls
Volume Recovered – Produced Water	0 bbls
Volume Released – Crude Oil	20 bbls
Volume Recovered – Crude Oil	0 bbls
Affected Area – Damp Soil	Pad - Approximately 6,267 sqft.
Site Location Map	Attached

SITE CHARACTERIZATION AND CLOSURE CRITERIA**Depth to Groundwater/Wellhead Protection:**

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	NA	NA	NA
USGS	321310103482101	1/17/2013	74.44
Soil Bore	NA	NA	NA

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a $\frac{1}{2}$ mile of the release site. The search revealed that One (1) well occurred in the databases that meet the NMOCD criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

General Site Characterization:

Site Assessment	
Karst Potential	Low
Distance to Watercourse	> 1,000 ft.
Within 100 yr Floodplain	No
Pasture Impact	No

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Low potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

Closure Criteria:

On-Site & Off-Site 4ft bgs Recommended Remedial Action Levels (RRALs)	
Chlorides	10,000 mg/kg
TPH (GRO and DRO and MRO)	2,500 mg/kg
TPH (GRO and DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES**Initial Sample Activities:**

Delineation Summary	
Delineation Dates	10/15/2020 – 10/20/2020
Depths Sampled	0' – 2'
Delineation Map	Attached
Laboratory Results	Attached

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

Confirmation Activities:

Remediation Summary	
Remediation Dates	04/19/2023 – 05/12/2023
Workplan Approval	03/24/2021
Liner Variance Request	None
Deferral Request	None
Depths Excavated	1' – 2'
Area Represented by the required 5-point Confirmation Samples – Floors and Walls	200 sqft.
Total Volume of Excavated Soil	298 yards
Remediation Map	Attached
Laboratory Results	Table 2

Impacted soil within the release margins was excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all Floor and On-Site Walls of the excavated area were advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations are below the RRAL NMOCD Closure Criteria listed in the Table above, and all Off-Site Walls were advanced to meet reclamation standards. Confirmation soil samples (five-point composites representing no more than 200 sqft. of the excavated area) were collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria; the impacted soil was transported under manifest to an NMOCD-approved disposal facility and the excavated area was backfilled with locally sourced, non-impacted "like" material.

SITE RECLAMATION AND RESTORATION

Areas affected by the release and the associated remediation activities were restored to a condition that existed before the release to the extent practicable. The affected area was contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow. Affected areas not on production pads and/or lease roads will be reseeded with a prescribed BLM, NMSLO, and/or Private Landowner requested seed mixture during the first favorable growing season following the closure of the site by the applicable regulatory agency.

REQUEST FOR CLOSURE

Supporting Documentation	
C-141 page 6	Signed and Attached
Delineation and Remediation Maps	Attached
Depth to Groundwater Maps and Source	Attached
US NWI Map	Attached
FEMA Flood Hazard Map	Attached
USDA Soil Survey	Attached
Site Photography	Attached
Laboratory Analytics with COCs	Attached

The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC; therefore, Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant closure approval for the referenced release.

Sincerely,



Dan Dunkelberg
Project Manager



Cynthia Jordan
Project Scientist

From: [Cliff Brunson](#)
To: [Isabel Ramirez](#)
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 17435
Date: Wednesday, March 31, 2021 1:58:22 PM

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Tuesday, March 30, 2021 3:00 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: 'Ken Swinney' <kswinney@bbcinternational.com>; jgilkey@bbcinternational.com
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 17435

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, March 24, 2021 1:07 PM
To: Dittrich, John W <Wade_Dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 17435

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

To whom it may concern (c/o Wade Dittrich for OXY USA INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2028955593, with the following conditions:

- **Samples are representative of more than 200 square feet. Please collect more samples, representing no more than 200 square feet, unless OXY chooses to provide a sampling plan for approval prior to conduction additional sampling.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Chad Hensley
Environmental Science & Specialist
575-703-1723
Chad.Hensley@state.nm.us

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

From: [Cliff Brunson](#)
To: ["Ken Swinney"](#); ["Jennifer Gilkey"](#); [Renee Jimenez](#)
Subject: FW: Sand Dunes South Corridor CTB (NRM2028955593), Workplan
Date: Wednesday, February 17, 2021 3:25:00 PM

From: Amos, James A <jamos@blm.gov>
Sent: Wednesday, February 17, 2021 3:19 PM
To: 'Dittrich, John W' <Wade_Dittrich@oxy.com>
Cc: Cliff P. Brunson <cbrunson@bbcinternational.com>
Subject: Sand Dunes South Corridor CTB (NRM2028955593), Workplan

Wade/Cliff,

Consider this BLMs approval of the above referenced Delineation/Remediation Workplan. If any questions, please get back to me. Thanks

James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov

Laboratory Analytical Results Summary
Oxy, Sand Dunes S Corridor CTB 9-22-20

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	10/15/20	10/15/20	10/15/20	10/15/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.108	0.141	0.108	0.070
Ethylbenzene	BTEX 8021B		0.093	0.128	0.083	0.068
Total Xylenes	BTEX 8021B		0.593	0.884	0.535	0.418
Total BTEX	BTEX 8021B		0.794	1.15	0.726	0.556
Chloride	SM4500Cl-B		128	128	112	96.0
GRO	TPH 8015M		10.2	17.6	11.0	<10.0
DRO	TPH 8015M		44.4	77.8	40.8	17.3
EXT DRO	TPH 8015M		36.8	46.5	26.4	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	10/15/20	10/15/20	10/15/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050
Toluene	BTEX 8021B		1.80	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.96	0.095	<0.050
Total Xylenes	BTEX 8021B		15.9	1.02	<0.150
Total BTEX	BTEX 8021B		19.7	1.12	<0.300
Chloride	SM4500Cl-B		30000	960	176
GRO	TPH 8015M		439	148	<10.0
DRO	TPH 8015M		26000	1990	513
EXT DRO	TPH 8015M		5820	331	104

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	10/15/20	10/15/20	10/15/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050
Toluene	BTEX 8021B		1.46	<0.050	<0.050
Ethylbenzene	BTEX 8021B		5.81	<0.050	<0.050
Total Xylenes	BTEX 8021B		45.6	<0.150	<0.150
Total BTEX	BTEX 8021B		52.8	<0.300	<0.300
Chloride	SM4500Cl-B		80.0	192	272
GRO	TPH 8015M		1440	<10.0	10.5
DRO	TPH 8015M		23600	561	569
EXT DRO	TPH 8015M		4480	119	119

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	10/15/20	10/15/20	10/15/20	10/15/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		0.968	0.932	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.02	1.68	<0.050	<0.050
Total Xylenes	BTEX 8021B		9.86	13.7	<0.150	<0.150
Total BTEX	BTEX 8021B		11.8	16.3	<0.300	<0.300
Chloride	SM4500Cl-B		15800	2560.0	240	240
GRO	TPH 8015M		400	533	<10.0	<10.0
DRO	TPH 8015M		27500	9010	447	314
EXT DRO	TPH 8015M		6150	1560	109	64.3

Laboratory Analytical Results Summary
Oxy, Sand Dunes S Corridor CTB 9-22-20

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/16/20	10/16/20	10/16/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.562	<0.050	<0.050
Toluene	BTEX 8021B		19.6	0.072	<0.050
Ethylbenzene	BTEX 8021B		9.70	0.064	<0.050
Total Xylenes	BTEX 8021B		67.0	1.18	<0.150
Total BTEX	BTEX 8021B		96.9	1.32	<0.300
Chloride	SM4500Cl-B		464	368	64.0
GRO	TPH 8015M		1920	87.8	11.8
DRO	TPH 8015M		27500	1070	365
EXT DRO	TPH 8015M		5990	214	64.7

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	10/16/20	10/16/20	10/16/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050
Toluene	BTEX 8021B		2.78	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.94	<0.050	<0.050
Total Xylenes	BTEX 8021B		23.7	<0.150	<0.150
Total BTEX	BTEX 8021B		29.4	<0.300	<0.300
Chloride	SM4500Cl-B		5600	432	80.0
GRO	TPH 8015M		701	<10.0	<10.0
DRO	TPH 8015M		28800	85.0	212
EXT DRO	TPH 8015M		5900	28.8	39.8

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	10/16/20	10/16/20	10/16/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050
Toluene	BTEX 8021B		4.13	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.41	0.050	<0.050
Total Xylenes	BTEX 8021B		18.6	0.399	<0.150
Total BTEX	BTEX 8021B		25.1	0.450	<0.300
Chloride	SM4500Cl-B		112	16.0	32.0
GRO	TPH 8015M		462	17.9	<10.0
DRO	TPH 8015M		29700	340.0	87.6
EXT DRO	TPH 8015M		5830	70.7	17.8

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	10/16/20	10/16/20	10/16/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.368	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.593	<0.050	<0.050
Total Xylenes	BTEX 8021B		3.56	<0.150	<0.150
Total BTEX	BTEX 8021B		4.52	<0.300	<0.300
Chloride	SM4500Cl-B		64.0	48.0	32.0
GRO	TPH 8015M		121	<10.0	<10.0
DRO	TPH 8015M		11900	169	87.6
EXT DRO	TPH 8015M		3250	40.4	17.8

Laboratory Analytical Results Summary
Oxy, Sand Dunes S Corridor CTB 9-22-20

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	10/20/20	10/20/20	10/20/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		4.82	<0.050	N/A
Ethylbenzene	BTEX 8021B		6.86	<0.050	N/A
Total Xylenes	BTEX 8021B		54.8	<0.150	N/A
Total BTEX	BTEX 8021B		66.4	<0.300	N/A
Chloride	SM4500Cl-B		192	48.0	48.0
GRO	TPH 8015M		1160	<10.0	N/A
DRO	TPH 8015M		22800	36.7	N/A
EXT DRO	TPH 8015M		4410	11.5	N/A

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	10/20/20	10/20/20	10/20/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.797	<0.050	N/A
Toluene	BTEX 8021B		34.7	<0.050	N/A
Ethylbenzene	BTEX 8021B		16.4	<0.050	N/A
Total Xylenes	BTEX 8021B		70.5	<0.150	N/A
Total BTEX	BTEX 8021B		122	<0.300	N/A
Chloride	SM4500Cl-B		112	64.0	32.0
GRO	TPH 8015M		1650	<10.0	N/A
DRO	TPH 8015M		27600	49.3	N/A
EXT DRO	TPH 8015M		4820	17.2	N/A

TABLE 2
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
SAND DUNES SOUTH CORRIDOR CTB
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: NRM2028955593



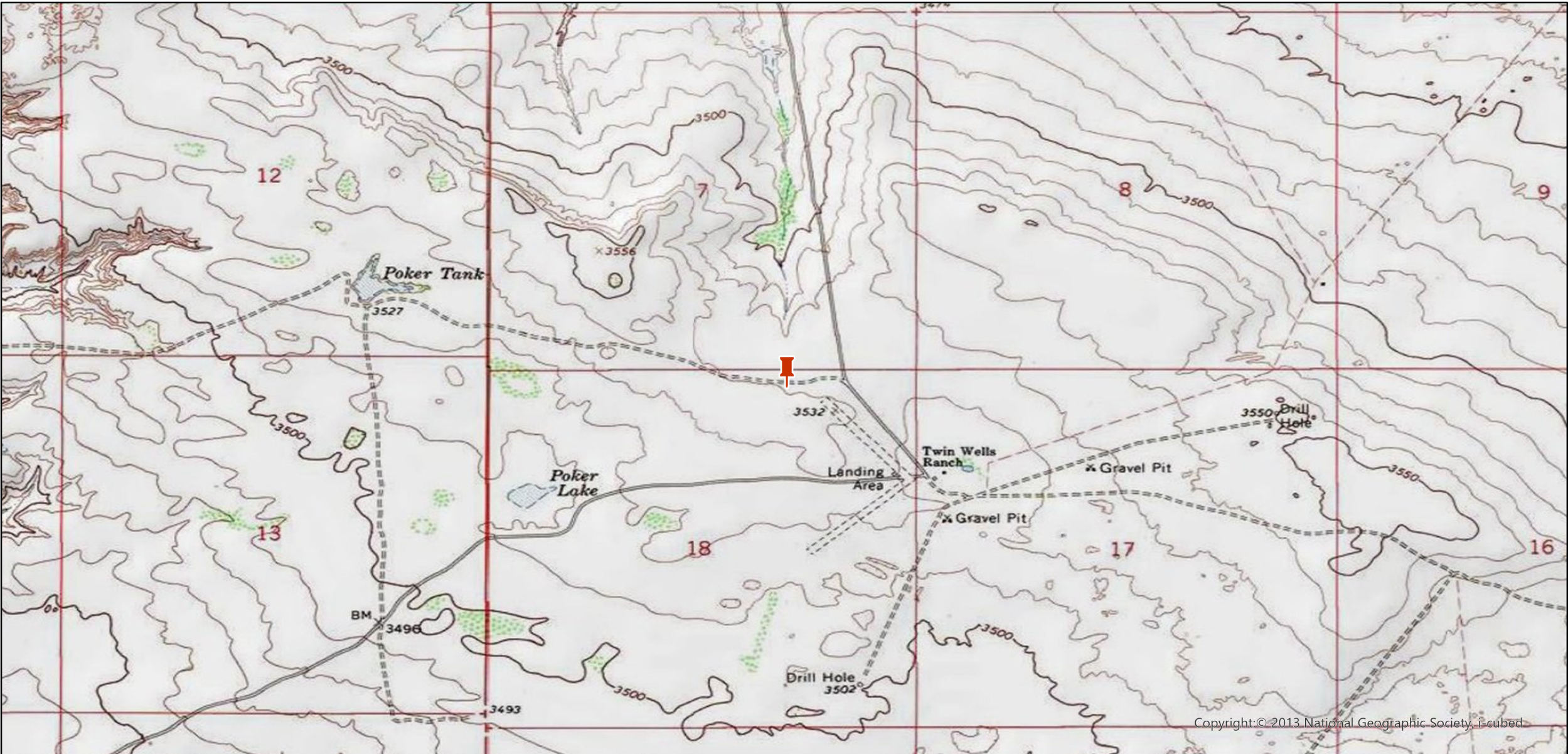
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	FLOOR/WALL	OFF-SITE/ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
NMOCD Closure Limits Pad							10000	2500	1000	NE	NE	NE	50	10
NMOCD Closure Limits Pasture to 4'							600	100	NE	NE	NE	NE	50	10
Remediation Floors														
CF-001.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	Excavated	448	2190	1590	<10.0	1590	600	<.300	<0.50
CF-001.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	64	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-002.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	208	671	443	<10.0	443	228	<.300	<0.50
CF-003.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	160	1069	843	<10.0	843	226	<.300	<0.50
CF-004.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	Excavated	96	1472	1170	<10.0	1170	302	<.300	<0.50
CF-004.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	192	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-005.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	Excavated	112	2568	1960	<10.0	1960	608	<.300	<0.50
CF-005.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	96	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-006.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	Excavated	96	8700	6950	<10.0	6950	1750	<.300	<0.50
CF-006.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	16	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-007.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	80	1122	858	<10.0	858	264	<.300	<0.50
CF-008.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	112	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-009.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	128	10.7	10.7	<10.0	10.7	<10.0	<.300	<0.50
CF-010.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	192	190.6	159	<10.0	159	31.6	<.300	<0.50
CF-011.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	128	1010	809	<10.0	809	201	<.300	<0.50
CF-012.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	Excavated	144	1680	1330	<10.0	1330	350	<.300	<0.50
CF-012.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	240	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-013.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	128	335	235	<10.0	235	100	<.300	<0.50
CF-014.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	80	338.3	265	<10.0	265	73.3	<.300	<0.50
CF-015.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	160	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-016.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	480	128.8	95.6	<10.0	95.6	33.2	<.300	<0.50
CF-017.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	64	55.3	35.7	<10.0	35.7	19.6	<.300	<0.50
CF-018.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	32	14.9	14.9	<10.0	14.9	<10.0	<.300	<0.50
CF-019.0-01.0-S	1	4/18/2023	Floor	On-Site	Composite	In-Situ	128	1078	799	<10.0	799	279	<.300	<0.50
CF-020.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	In-Situ	544	95.7	77.3	<10.0	77.3	18.4	<.300	<0.50
CF-021.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	In-Situ	912	509	398	<10.0	398	111	<.300	<0.50
CF-022.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	In-Situ	1440	967	758	<10.0	758	209	<.300	<0.50
CF-023.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	Excavated	928	1834	1440	<10.0	1440	394	<.300	<0.50
CF-023.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	80	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-024.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	In-Situ	384	506	383	<10.0	383	123	<.300	<0.50
CF-025.0-01.0-S	1	5/4/2023	Floor	On-Site	Composite	In-Situ	112	608	433	<10.0	433	175	<.300	<0.50
CF-026.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	128	454	294	<10.0	294	160	<.300	<0.50
CF-027.0-01.0-S	1	4/18/2023	Floor	On-Site	Composite	Excavated	1810	4207	3300	<10.0	3300	907	<.300	<0.50
CF-027.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	288	80.9	56.2	<10.0	56.2	24.7	<.300	<0.50
CF-028.0-01.0-S	1	4/19/2023	Floor	On-Site	Composite	Excavated	1280	9709.6	7699.6	99.6	7600	2010	<.300	<0.50
CF-028.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	304	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-029.0-01.0-S	1	4/19/2023	Floor	On-Site	Composite	Excavated	2600	5239.7	4119.7	19.7	4100	1120	<.300	<0.50
CF-029.0-02.0-S	2	5/12/2023	Floor	On-Site	Composite	In-Situ	320	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-030.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	544	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50

TABLE 2
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
SAND DUNES SOUTH CORRIDOR CTB
EDDY COUNTY, NEW MEXICO
NMOCD REFERENCE #: NRM2028955593



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	FLOOR/ WALL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
NMOCD Closure Limits Pad							10000	2500	1000	NE	NE	NE	50	10
NMOCD Closure Limits Pasture to 4'							600	100	NE	NE	NE	NE	50	10
CF-031.0-01.0-S	1	5/12/2023	Floor	On-Site	Composite	In-Situ	496	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CF-032.0-01.0-S	1	5/1/2023	Floor	On-Site	Composite	In-Situ	1200	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
Remediation Walls														
CW-033.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	128	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CW-034.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	304	72.5	50	<10.0	50	22.5	<.300	<0.50
CW-035.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	96	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CW-036.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	256	<10.0	<10.0	<10.0	<10.0	<10.0	<.300	<0.50
CW-037.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	768	37.5	27.1	<10.0	27.1	10.4	<.300	<0.50
CW-038.0-01.0-S	1	5/12/2023	Wall	On-Site	Composite	In-Situ	1040	11.8	11.8	<10.0	11.8	<10.0	<.300	<0.50

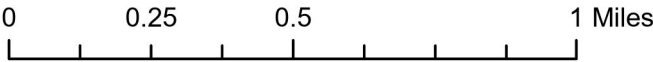


Legend:



Site Location

Site Location Map
OXY USA, Inc.
Sand Dunes South Corridor CTB
Eddy County, New Mexico
32.22382, -103.81335
NMOCD Reference # NRM2028955593



Oxy Sand Dunes S Corridor CTB

Leak Date: 9-22-20
Eddy County, NM
Incident ID: NRM2028955593

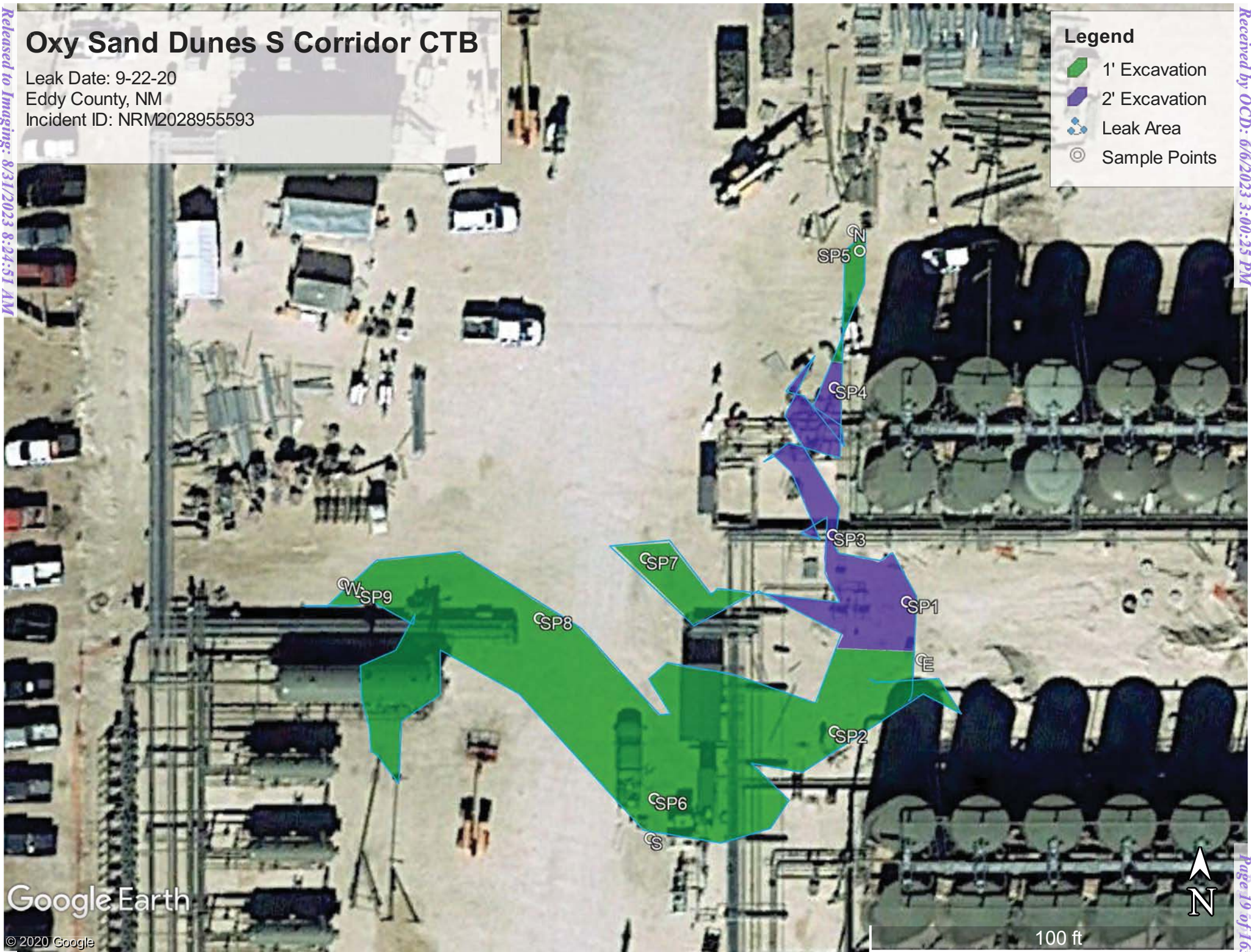
Legend

1' Excavation

2' Excavation

Leak Area

Sample Points

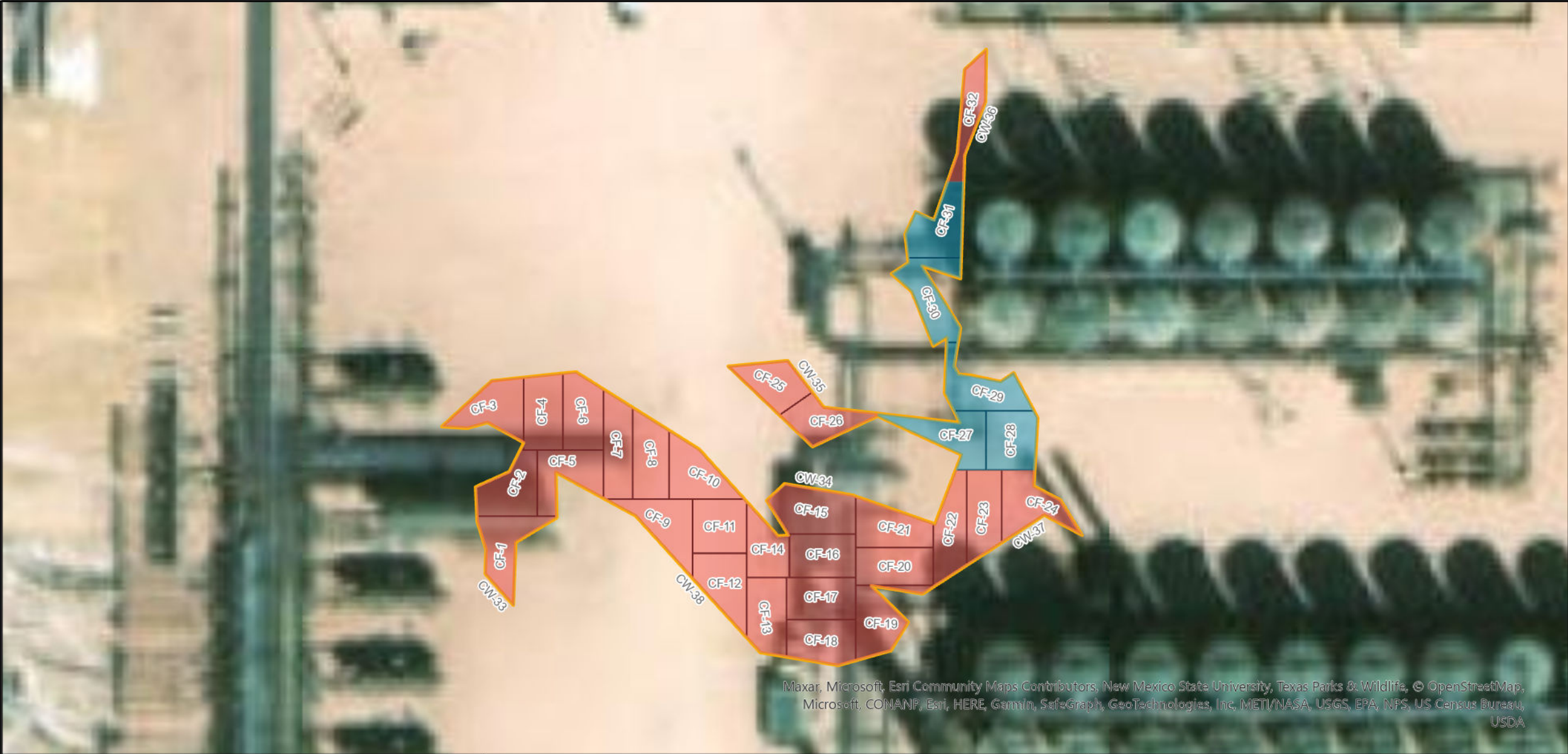


Google Earth

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100 ft





Maxar, Microsoft, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

<p>Legend:</p> <p>Excavation Depth</p> <p>1' (Red)</p> <p>2' (Blue)</p> <p>Remediation Wall (Yellow line)</p> <p>Remediation Floor (White line)</p>	<p>Remediation Map OXY USA, Inc. Sand Dunes South Corridor CTB 32.22382, -103.81335 Eddy County, New Mexico NMOCD Reference #: NRM2028955593</p>	<p>0 30 60 120 Feet</p> <p>Trinity Oilfield Services</p> <p>N</p>
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OXY USA, Inc.

SAND DUNES CTB
LEASE #NM-40659
EMERGENCY # 1-866-321-9561









































Excavation

Pad:



Pad:





Excavation

Pad:



Pad:





Excavation

Pad:



Pad:





Excavation

Pad:



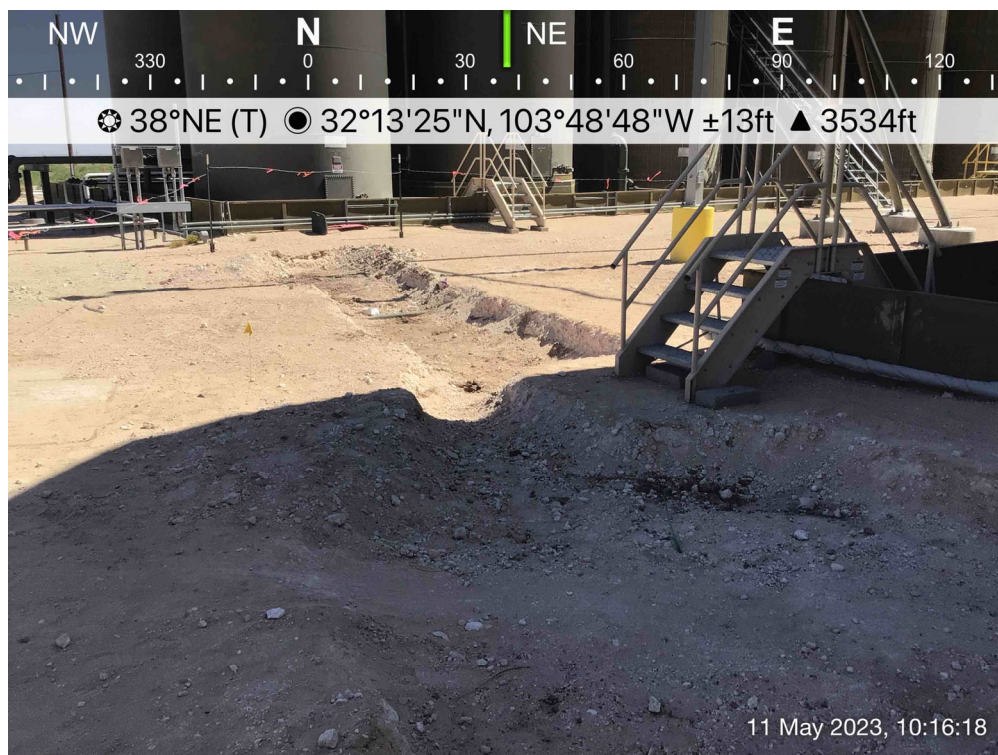
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Excavation

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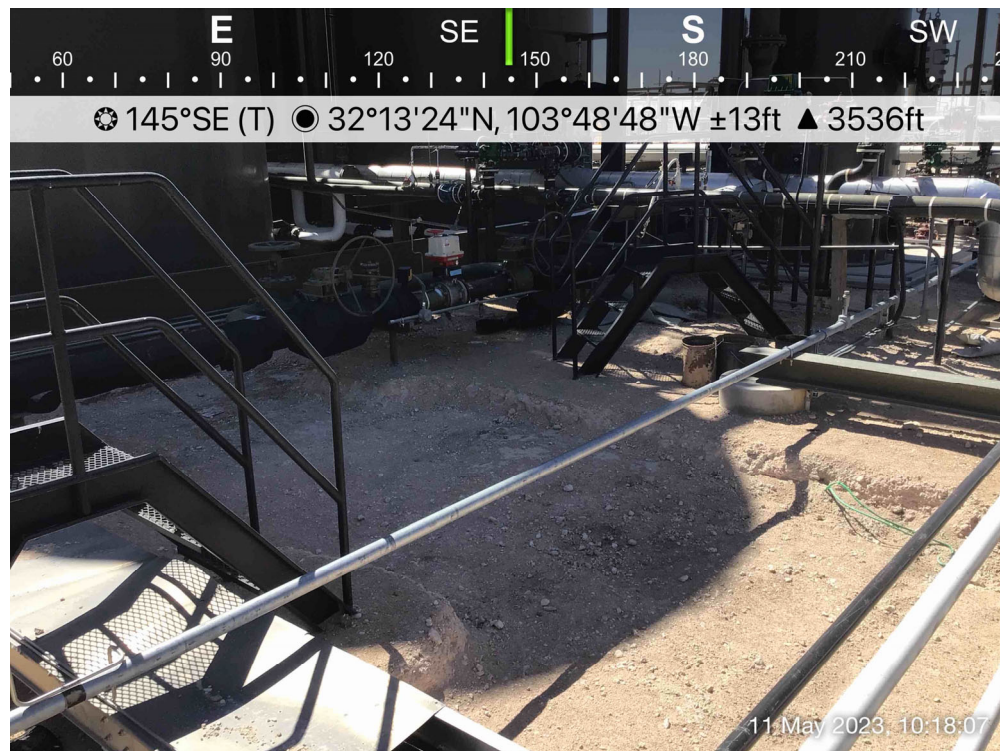


Excavation

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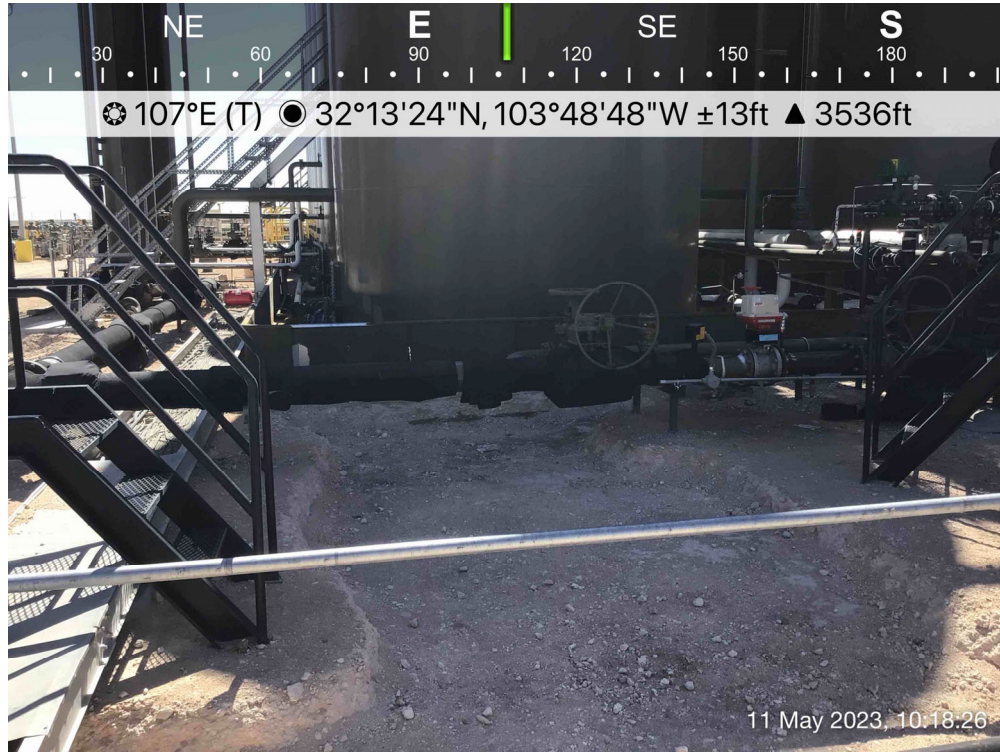
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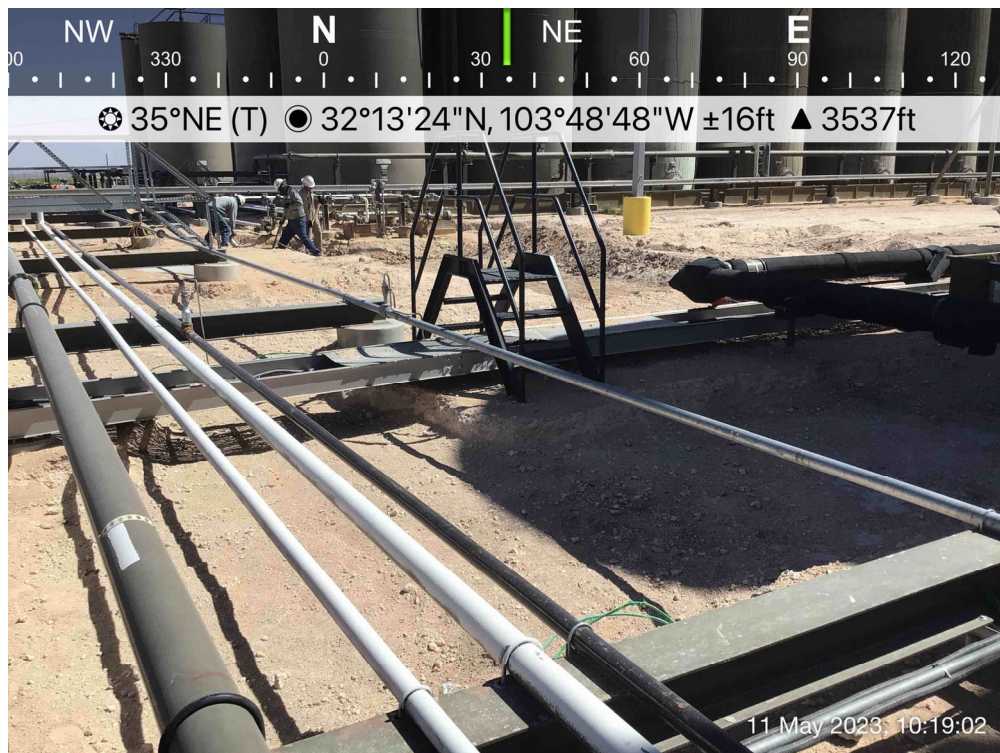


Excavation

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Excavation

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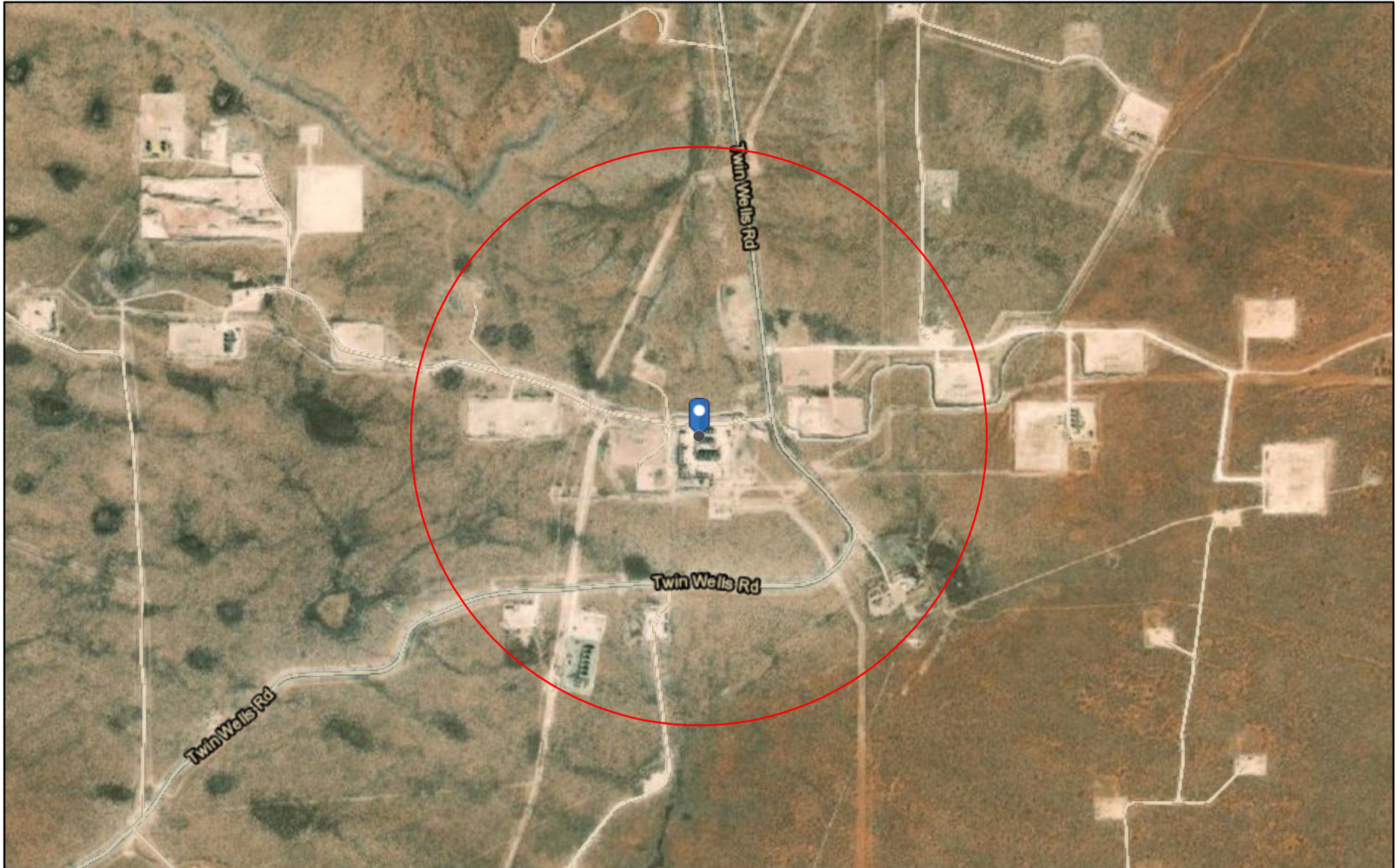


Excavation

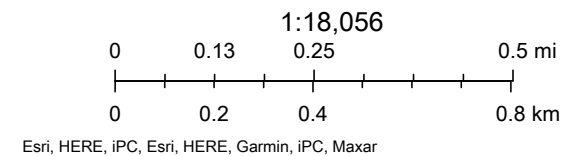
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NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB

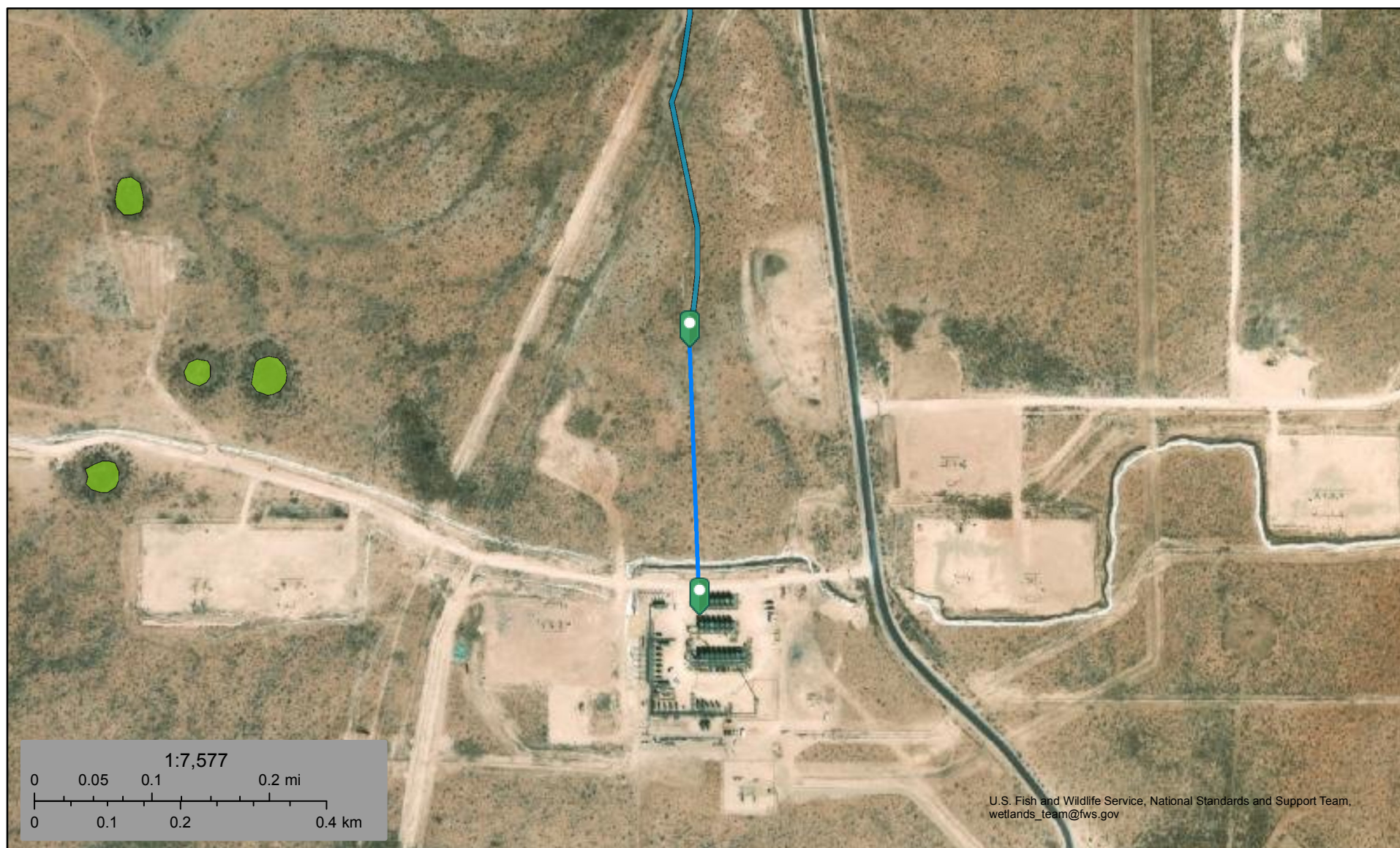


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NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB



April 26, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



103°49'7"W 32°13'41"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 12:57 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.




This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

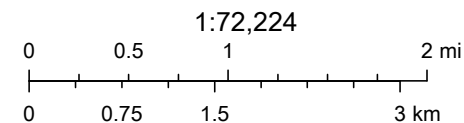
NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB



4/26/2023, 10:49:19 AM

Karst Occurrence Potential

	High		Medium
	Low		



BLM, OCD, New Mexico Tech, Earthstar Geographics

Soil Map—Eddy Area, New Mexico
(NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

4/26/2023
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

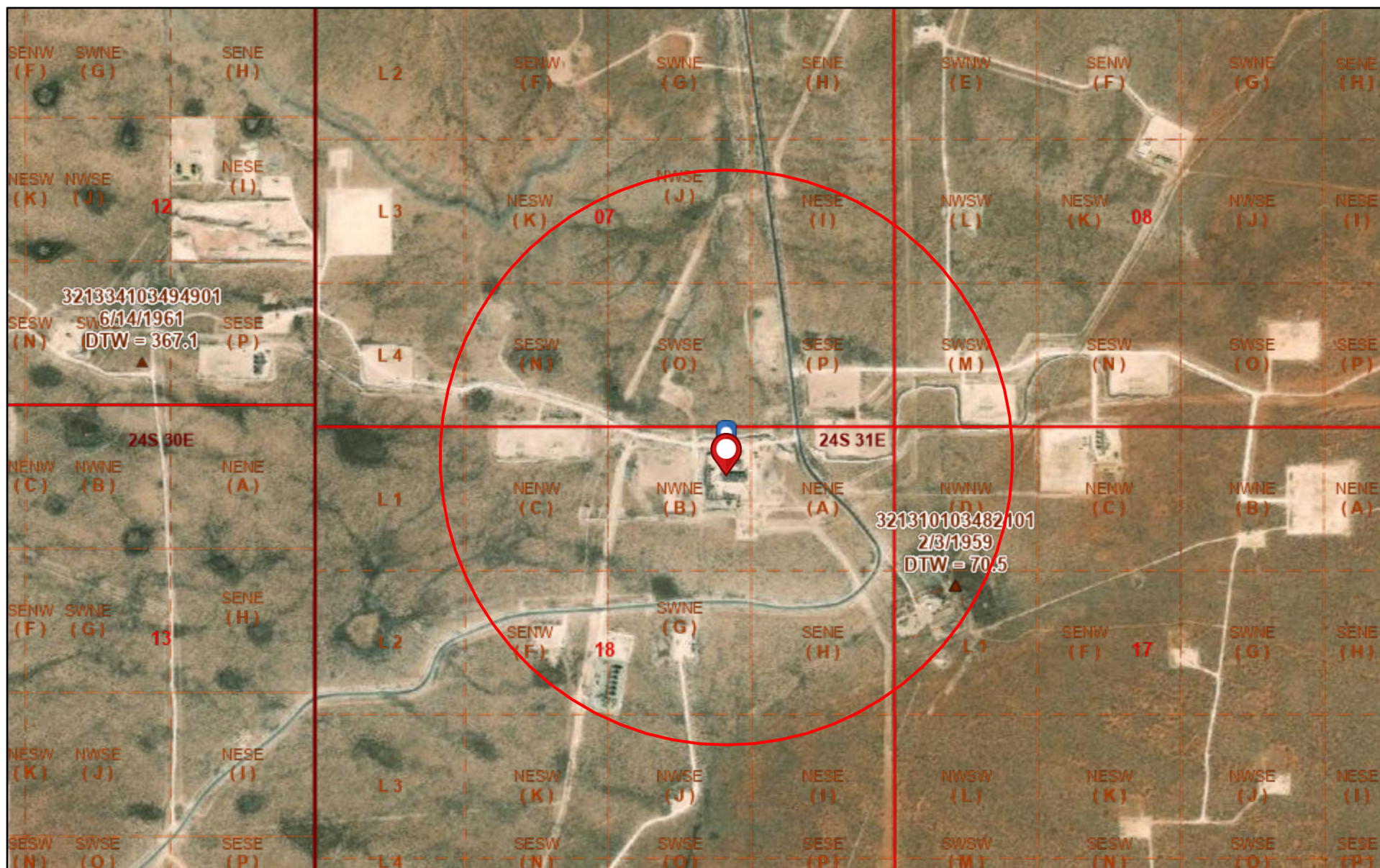
Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

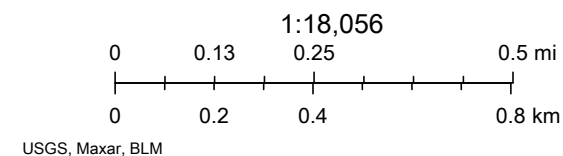
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
SM	Simona-Bippus complex, 0 to 5 percent slopes	25.9	100.0%
Totals for Area of Interest		25.9	100.0%

NRM2028955593 | SAND DUNES SOUTH CORRIDOR CTB



6/5/2023, 3:28:02 PM

- ▲ USGS Historical GW Wells
- PLSS First Division
- PLSS Second Division
- PLSS Townships





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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321310103482101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321310103482101 24S.31E.17.13120

Eddy County, New Mexico

Latitude 32°13'14.1", Longitude 103°48'23.4" NAD83

Land-surface elevation 3,530.00 feet above NGVD29

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

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-02-03			D 62610		3459.50	NGVD29	P	Z		
1959-02-03			D 62611		3461.24	NAVD88	P	Z		
1959-02-03			D 72019	70.50			P	Z		
1959-03-25			D 62610		3462.33	NGVD29	1	Z		
1959-03-25			D 62611		3464.07	NAVD88	1	Z		
1959-03-25			D 72019	67.67			1	Z		
1976-12-02			D 62610		3463.98	NGVD29	1	Z		
1976-12-02			D 62611		3465.72	NAVD88	1	Z		
1976-12-02			D 72019	66.02			1	Z		
2013-01-17	21:00 UTC		m 62610		3455.56	NGVD29	1	S	USGS	
2013-01-17	21:00 UTC		m 62611		3457.30	NAVD88	1	S	USGS	
2013-01-17	21:00 UTC		m 72019	74.44			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.29 0.26 nadww02



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

October 27, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES S CORRIDOR CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: N @ SURFACE (H002787-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	0.108	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	0.093	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	0.593	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTX	0.794	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.2	10.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	44.4	10.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	36.8	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: E @ SURFACE (H002787-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	0.141	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	0.128	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	0.884	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTX	1.15	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.6	10.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	77.8	10.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	46.5	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: W @ SURFACE (H002787-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	0.108	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	0.083	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	0.535	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTX	0.726	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.0	10.0	10/21/2020	ND	224	112	200	1.05	
DRO >C10-C28*	40.8	10.0	10/21/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	26.4	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: S @ SURFACE (H002787-04)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.84	91.8	2.00	8.23		
Toluene*	0.070	0.050	10/22/2020	ND	1.86	93.2	2.00	7.31		
Ethylbenzene*	0.068	0.050	10/22/2020	ND	1.82	91.0	2.00	7.12		
Total Xylenes*	0.418	0.150	10/22/2020	ND	5.47	91.1	6.00	5.87		
Total BTX	0.556	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	17.3	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H002787-05)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/22/2020	ND	1.84	91.8	2.00	8.23	
Toluene*	1.80	0.200	10/22/2020	ND	1.86	93.2	2.00	7.31	
Ethylbenzene*	1.96	0.200	10/22/2020	ND	1.82	91.0	2.00	7.12	
Total Xylenes*	15.9	0.600	10/22/2020	ND	5.47	91.1	6.00	5.87	
Total BTX	19.7	1.20	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	439	50.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	26000	50.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	5820	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 182 % 44.3-144

Surrogate: 1-Chlorooctadecane 995 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ 1' (H002787-06)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/23/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	0.095	0.050	10/23/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	1.02	0.150	10/23/2020	ND	5.69	94.9	6.00	1.26	
Total BTX	1.12	0.300	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	148	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	1990	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	331	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 172 % 44.3-144

Surrogate: 1-Chlorooctadecane 171 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ 2' (H002787-07)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	513	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	104	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H002787-08)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/23/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	1.46	0.200	10/23/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	5.81	0.200	10/23/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	45.6	0.600	10/23/2020	ND	5.69	94.9	6.00	1.26	
Total BTX	52.8	1.20	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 183 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1440	50.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	23600	50.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	4480	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 318 % 44.3-144

Surrogate: 1-Chlorooctadecane 858 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 2 @ 1' (H002787-09)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	561	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	119	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 2 @ 2' (H002787-10)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.5	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	569	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	119	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H002787-11)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	0.968	0.050	10/23/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	1.02	0.050	10/23/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	9.86	0.150	10/23/2020	ND	5.69	94.9	6.00	1.26	
Total BTX	11.8	0.300	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 169 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	10/22/2020	ND	432	108	400	0.00	QM-07
TPH 8015M									

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	400	50.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	27500	50.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	6150	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 209 % 44.3-144

Surrogate: 1-Chlorooctadecane 1030 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ 1' (H002787-12)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/26/2020	ND	1.82	90.8	2.00	8.77	
Toluene*	0.932	0.100	10/26/2020	ND	1.84	92.2	2.00	9.64	
Ethylbenzene*	1.68	0.100	10/26/2020	ND	1.86	93.1	2.00	9.23	
Total Xylenes*	13.7	0.300	10/26/2020	ND	5.87	97.8	6.00	6.27	
Total BTX	16.3	0.600	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 192 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	533	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	9010	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	1560	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 221 % 44.3-144

Surrogate: 1-Chlorooctadecane 349 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ 2' (H002787-13)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77		
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64		
Ethylbenzene*	<0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23		
Total Xylenes*	<0.150	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27		
Total BTEx	<0.300	0.300	10/23/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	447	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	109	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/15/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ 3' (H002787-14)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	314	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	64.3	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 128 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H002787-15)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.562	0.500	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	19.6	0.500	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	9.70	0.500	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	67.0	1.50	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	96.9	3.00	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1920	50.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	27500	50.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	5990	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 385 % 44.3-144

Surrogate: 1-Chlorooctadecane 982 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 4 @ 1' (H002787-16)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	0.072	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	0.064	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	1.18	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	1.32	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	87.8	10.0	10/22/2020	ND	224	112	200	1.05	
DRO >C10-C28*	1070	10.0	10/22/2020	ND	212	106	200	0.413	
EXT DRO >C28-C36	214	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 141 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 4 @ 2' (H002787-17)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTEx	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	365	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	64.7	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 143 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ SURFACE (H002787-18)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/22/2020	ND	2.03	102	2.00	4.66	
Toluene*	2.78	0.100	10/22/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	2.94	0.100	10/22/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	23.7	0.300	10/22/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	29.4	0.600	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 166 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	701	200	10/23/2020	ND	230	115	200	1.56	
DRO >C10-C28*	28800	200	10/23/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	5900	200	10/23/2020	ND					

Surrogate: 1-Chlorooctane 267 % 44.3-144

Surrogate: 1-Chlorooctadecane 1020 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ 1' (H002787-19)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	85.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	28.8	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ 2' (H002787-20)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	212	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	39.8	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 138 % 44.3-144

Surrogate: 1-Chlorooctadecane 148 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 6 @ SURFACE (H002787-21)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	4.13	0.200	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	2.41	0.200	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	18.6	0.600	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	25.1	1.20	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	462	50.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	29700	50.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	5830	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 203 % 44.3-144

Surrogate: 1-Chlorooctadecane 1160 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 6 @ 1' (H002787-22)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77	
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64	
Ethylbenzene*	0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23	
Total Xylenes*	0.399	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27	
Total BTX	0.450	0.300	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

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	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.9	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	340	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	70.7	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 139 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 6 @ 2' (H002787-23)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77		
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64		
Ethylbenzene*	<0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23		
Total Xylenes*	<0.150	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27		
Total BTX	<0.300	0.300	10/23/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	87.6	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	17.8	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 128 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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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:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 7 @ SURFACE (H002787-24)

BTEx 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2020	ND	1.82	90.8	2.00	8.77	
Toluene*	0.368	0.050	10/26/2020	ND	1.84	92.2	2.00	9.64	
Ethylbenzene*	0.593	0.050	10/26/2020	ND	1.86	93.1	2.00	9.23	
Total Xylenes*	3.56	0.150	10/26/2020	ND	5.87	97.8	6.00	6.27	
Total BTEX	4.52	0.300	10/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	121	50.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	11900	50.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	3250	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 162 % 44.3-144

Surrogate: 1-Chlorooctadecane 560 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/16/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 7 @ 1' (H002787-25)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77		
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64		
Ethylbenzene*	<0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23		
Total Xylenes*	<0.150	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27		
Total BTEx	<0.300	0.300	10/23/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	169	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	40.4	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 8 @ SURFACE (H002787-26)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	10/24/2020	ND	1.82	90.8	2.00	8.77	
Toluene*	4.82	0.500	10/24/2020	ND	1.84	92.2	2.00	9.64	
Ethylbenzene*	6.86	0.500	10/24/2020	ND	1.86	93.1	2.00	9.23	
Total Xylenes*	54.8	1.50	10/24/2020	ND	5.87	97.8	6.00	6.27	
Total BTX	66.4	3.00	10/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	50.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	22800	50.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	4410	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 254 % 44.3-144

Surrogate: 1-Chlorooctadecane 846 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 8 @ 1' (H002787-27)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77		
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64		
Ethylbenzene*	<0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23		
Total Xylenes*	<0.150	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27		
Total BTX	<0.300	0.300	10/23/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	36.7	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	11.5	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 8 @ 2' (H002787-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/22/2020	ND	432	108	400	0.00		

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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:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 9 @ SURFACE (H002787-29)

BTEx 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.797	0.200	10/24/2020	ND	1.82	90.8	2.00	8.77	
Toluene*	34.7	0.200	10/24/2020	ND	1.84	92.2	2.00	9.64	
Ethylbenzene*	16.4	0.200	10/24/2020	ND	1.86	93.1	2.00	9.23	
Total Xylenes*	70.5	0.600	10/24/2020	ND	5.87	97.8	6.00	6.27	
Total BTEX	122	1.20	10/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/22/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1650	50.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	27600	50.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	4820	50.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 263 % 44.3-144

Surrogate: 1-Chlorooctadecane 977 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 9 @ 1' (H002787-30)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/23/2020	ND	1.82	90.8	2.00	8.77		
Toluene*	<0.050	0.050	10/23/2020	ND	1.84	92.2	2.00	9.64		
Ethylbenzene*	<0.050	0.050	10/23/2020	ND	1.86	93.1	2.00	9.23		
Total Xylenes*	<0.150	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27		
Total BTX	<0.300	0.300	10/23/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/22/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	49.3	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	17.2	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 129 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/21/2020	Sampling Date:	10/20/2020
Reported:	10/27/2020	Sampling Type:	Soil
Project Name:	SAND DUNES S CORRIDOR CTB	Sampling Condition:	Cool & Intact
Project Number:	(9 - 22 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 9 @ 2' (H002787-31)

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	10/22/2020	ND	416	104	400	0.00		

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(1 of 4)



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

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson
Address: P.O. Box 805
City: Hobbs State: NM Zip: 88241
Phone #: 575-397-6388 Fax #: 575-397-0397
Project #: Project Owner: Oxy
Project Name: Sand Dunes S Corridor CTB (9-22-20)
Project Location: EDDY COUNTY, NM
Sampler Name: Simon Rendon

BILL TO

P.O. #:
Company: OXY
Attn: WADE
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H002787
1
2
3
4
5
6
7
8
9
10

N @ Surface
E @ Surface
W @ Surface
S @ Surface
SP1 @ Surface
SP1 @ 1'
SP1 @ 2'
SP2 @ Surface
SP2 @ 1'
SP2 @ 2'

(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING	
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER
G	I			I				I		

DATE TIME
10/15/20 11:05 AM
10/15/20 11:14 AM
10/15/20 11:25 AM
10/15/20 11:41 AM
10/15/20 11:55 AM
10/15/20 12:45 PM
10/15/20 1:04 PM
10/15/20 1:15 PM
10/15/20 1:28 PM
10/15/20 1:47 PM

CL

BTEX

TPH EXT

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Relinquished By:

[Signature]

Date: 10-20-20
Time: 5:00

Received By:

Jennifer Galkay

Relinquished By:

Jennifer Galkay

Date: 10-21-20
Time: 9:40

Received By:

Jodi Hanson

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-2.82 / #113

Sample Condition
Cool Intact
☒ Yes ☐ No
☐ Yes ☒ No

CHECKED BY:
(Initials)

[Initials]

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-398-2476



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(304)

BILL TO										ANALYSIS REQUEST											
Company Name: BBC International, Inc.										P.O. #:											
Project Manager: Cliff Brunson										Company: OXY											
Address: P.O. Box 805										Attn: WADE											
City: Hobbs State: NM Zip: 88241										Address:											
Phone #: 575-397-6388 Fax #: 575-397-0397										City:											
Project #: Project Owner: Oxy										State: Zip:											
Project Name: Sand Dunes S Corridor CTB (9-22-20)										Phone #:											
Project Location: EDDY COUNTY, NM										Fax #:											
Sampler Name: Simon Rendon																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT			
H602787													10/16/20	10:58 AM	✓	✓	✓				
21	SP6 @ Surface	G	I										10/16/20	11:16 AM	✓	✓	✓				
22	SP6 @ 1'												10/16/20	11:32 AM	✓	✓	✓				
23	SP6 @ 2'												10/16/20	11:50 AM	✓	✓	✓				
24	SP7 @ Surface												10/16/20	12:21 PM	✓	✓	✓				
25	SP7 @ 1'												10/20/20	9:00 AM	✓	✓	✓				
26	SP8 @ Surface												10/20/20	9:14 AM	✓	✓	✓				
27	SP8 @ 1'												10/20/20	9:34 AM	✓						
28	SP8 @ 2'												10/20/20	9:51 AM	✓	✓	✓				
29	SP9 @ Surface												10/20/20	10:12 AM	✓	✓	✓				
30	SP9 @ 1'																				

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

Relinquished By:	Date: 10-20-20 Time: 5:00	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 10-21-20 Time: 0940	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: -2.8/#113		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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


CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(404)

BILL TO										ANALYSIS REQUEST									
Company Name: BBC International, Inc.										P.O. #:									
Project Manager: Cliff Brunson										Company: OXY									
Address: P.O. Box 805										Attn: WADE									
City: Hobbs					State: NM Zip: 88241					Address:									
Phone #: 575-397-6388					Fax #: 575-397-0397					City:									
Project #:					Project Owner: Oxy					State: Zip:									
Project Name: Sand Dunes S Corridor CTB (9-22-20)										Phone #:									
Project Location: EDDY COUNTY, NM										Fax #:									
Sampler Name: Simon Rendon																			
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		MATRIX		PRESERV		SAMPLING		CL		BTEX		TPH		EXT			
H062787 31		SP9 @ 2'		G I		I		10/20/20 10:24 AM		✓									

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

Relinquished By:	Date: 10-20-20 Time: 5:00	Received By: Jennifer Gierke	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: Jennifer Gierke	Date: 10-21-20 Time: 2:40	Received By: Jodi Benson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -2.8 / #113		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
REMARKS:				

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



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

April 24, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SAND DUNES CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/18/23 16:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received:	04/18/2023	Sampling Date:	04/18/2023
Reported:	04/24/2023	Sampling Type:	Soil
Project Name:	SAND DUNES CTB	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: CF-019.0-01.0-S (H231869-01)

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	04/22/2023	ND	1.97	98.6	2.00	0.629		
Toluene*	<0.050	0.050	04/22/2023	ND	2.11	105	2.00	1.17		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.12	106	2.00	0.143		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.55	109	6.00	0.757		
Total BTEX	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/21/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	174	86.9	200	2.17	
DRO >C10-C28*	799	10.0	04/22/2023	ND	176	87.8	200	0.650	
EXT DRO >C28-C36	279	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 04/18/2023
 Reported: 04/24/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY

Sampling Date: 04/18/2023
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: CF-027.0-01.0-S (H231869-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.97	98.6	2.00	0.629		
Toluene*	<0.050	0.050	04/22/2023	ND	2.11	105	2.00	1.17		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.12	106	2.00	0.143		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.55	109	6.00	0.757		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	04/21/2023	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	174	86.9	200	2.17	
DRO >C10-C28*	3300	10.0	04/22/2023	ND	176	87.8	200	0.650	
EXT DRO >C28-C36	907	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 195 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 5



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

April 25, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SAND DUNES CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/25/2023	Sampling Type:	Soil
Project Name:	SAND DUNES CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO., NM		

Sample ID: CF-028.0-01.0-S (H231903-01)

BTX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2023	ND	1.93	96.3	2.00	1.42	
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65	
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99	GC-NC
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93	
Total BTX	<0.300	0.300	04/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 195 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	04/24/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	99.6	10.0	04/22/2023	ND	183	91.5	200	1.22	
DRO >C10-C28*	7600	10.0	04/22/2023	ND	178	89.2	200	1.71	
EXT DRO >C28-C36	2010	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 198 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 04/19/2023
 Reported: 04/25/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-029.0-01.0-S (H231903-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93		
Total BTEx	<0.300	0.300	04/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.7	10.0	04/22/2023	ND	183	91.5	200	1.22	
DRO >C10-C28*	4100	10.0	04/22/2023	ND	178	89.2	200	1.71	
EXT DRO >C28-C36	1120	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 5



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

May 04, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SAND DUNES CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/01/23 16:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-020.0-01.0-S (H232136-01)

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	05/04/2023	ND	1.89	94.7	2.00	4.24		
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14		
Total BTEx	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	544	16.0	05/03/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	77.3	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	18.4	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-021.0-01.0-S (H232136-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2023	ND	1.89	94.7	2.00	4.24	
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99	
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14	
Total BTEX	<0.300	0.300	05/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	912	16.0	05/03/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	398	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	111	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-022.0-01.0-S (H232136-03)

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	05/04/2023	ND	1.89	94.7	2.00	4.24		
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14		
Total BTX	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1440	16.0	05/03/2023	ND	400	100	400	3.92	QM-07	

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	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	758	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	209	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-023.0-01.0-S (H232136-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2023	ND	1.89	94.7	2.00	4.24		
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14		
Total BTEx	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	928	16.0	05/03/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	1440	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	394	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-024.0-01.0-S (H232136-05)

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	05/04/2023	ND	1.89	94.7	2.00	4.24		
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14		
Total BTX	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	384	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	383	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	123	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/01/2023
 Reported: 05/04/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CF-032.0-01.0-S (H232136-06)

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	05/04/2023	ND	1.89	94.7	2.00	4.24		
Toluene*	<0.050	0.050	05/04/2023	ND	1.91	95.3	2.00	4.31		
Ethylbenzene*	<0.050	0.050	05/04/2023	ND	1.89	94.3	2.00	4.99		
Total Xylenes*	<0.150	0.150	05/04/2023	ND	5.83	97.2	6.00	6.14		
Total BTX	<0.300	0.300	05/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1200	16.0	05/03/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2023	ND	193	96.4	200	2.03	
DRO >C10-C28*	<10.0	10.0	05/03/2023	ND	186	92.8	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/03/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Caley D. Keene, Lab Director/Quality Manager

Page 9 of 9



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

May 09, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SAND DUNES CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/04/23 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-001.0-01.0-S (H232222-01)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/06/2023	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	448	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	1590	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	600	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-002.0-01.0-S (H232222-02)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTX	<0.300	0.300	05/06/2023	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	208	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	443	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	228	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-003.0-01.0-S (H232222-03)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTX	<0.300	0.300	05/06/2023	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	160	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	843	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	226	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-004.0-01.0-S (H232222-04)

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	05/06/2023	ND	2.15	108	2.00	4.72		
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54		
Total BTX	<0.300	0.300	05/06/2023	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	96.0	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	1170	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	302	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 173 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-005.0-01.0-S (H232222-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEx	<0.300	0.300	05/06/2023	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	112	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	1960	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	608	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-006.0-01.0-S (H232222-06)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTX	<0.300	0.300	05/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	96.0	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	6950	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	1750	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 221 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-007.0-01.0-S (H232222-07)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTX	<0.300	0.300	05/06/2023	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	80.0	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	186	93.2	200	2.46	
DRO >C10-C28*	858	10.0	05/05/2023	ND	172	85.8	200	6.72	
EXT DRO >C28-C36	264	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-008.0-01.0-S (H232222-08)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEx	<0.300	0.300	05/06/2023	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	112	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	<10.0	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-009.0-01.0-S (H232222-09)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/06/2023	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	128	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	10.7	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-010.0-01.0-S (H232222-10)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEx	<0.300	0.300	05/06/2023	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	192	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	159	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	31.6	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-011.0-01.0-S (H232222-11)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEx	<0.300	0.300	05/06/2023	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	128	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	809	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	201	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-012.0-01.0-S (H232222-12)

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	05/06/2023	ND	2.15	108	2.00	4.72		
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54		
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17		
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54		
Total BTEx	<0.300	0.300	05/06/2023	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	144	16.0	05/08/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	1330	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	350	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-013.0-01.0-S (H232222-13)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEx	<0.300	0.300	05/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	128	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	235	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	100	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-014.0-01.0-S (H232222-14)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTX	<0.300	0.300	05/06/2023	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	80.0	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	265	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	73.3	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/04/2023
 Reported: 05/09/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/04/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-025.0-01.0-S (H232222-15)

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	05/06/2023	ND	2.15	108	2.00	4.72	
Toluene*	<0.050	0.050	05/06/2023	ND	2.13	107	2.00	4.54	
Ethylbenzene*	<0.050	0.050	05/06/2023	ND	2.12	106	2.00	3.17	
Total Xylenes*	<0.150	0.150	05/06/2023	ND	6.50	108	6.00	1.54	
Total BTEX	<0.300	0.300	05/06/2023	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	112	16.0	05/08/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2023	ND	170	84.8	200	5.40	
DRO >C10-C28*	433	10.0	05/05/2023	ND	153	76.7	200	0.983	
EXT DRO >C28-C36	175	10.0	05/05/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Page 18 of 19

Page 19 of 19



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

May 22, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: SAND DUNES CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-001-02.0-S (H232463-01)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTX	<0.300	0.300	05/19/2023	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	64.0	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-004-02.0-S (H232463-02)

BTEx 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTEX	<0.300	0.300	05/19/2023	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	192	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-005-02.0-S (H232463-03)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTX	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	96.0	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-006-02.0-S (H232463-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2023	ND	2.24	112	2.00	0.0831		
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49		
Total BTEx	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-012-02.0-S (H232463-05)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTX	<0.300	0.300	05/19/2023	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	240	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-015-01.0-S (H232463-06)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTEX	<0.300	0.300	05/19/2023	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	160	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-016-01.0-S (H232463-07)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTX	<0.300	0.300	05/19/2023	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	480	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	176	87.8	200	22.1	
DRO >C10-C28*	95.6	10.0	05/18/2023	ND	195	97.3	200	22.9	
EXT DRO >C28-C36	33.2	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-017-01.0-S (H232463-08)

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	05/19/2023	ND	2.24	112	2.00	0.0831	
Toluene*	<0.050	0.050	05/19/2023	ND	2.32	116	2.00	0.814	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.21	110	2.00	2.67	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.80	113	6.00	1.49	
Total BTX	<0.300	0.300	05/19/2023	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	64.0	16.0	05/18/2023	ND	416	104	400	7.41	

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	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	35.7	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	19.6	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-018-01.0-S (H232463-09)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTX	<0.300	0.300	05/19/2023	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	32.0	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	14.9	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-023-02.0-S (H232463-10)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTEX	<0.300	0.300	05/19/2023	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	80.0	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-026-01.0-S (H232463-11)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTEx	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	128	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	294	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	160	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-027-02.0-S (H232463-12)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTX	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	288	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	56.2	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	24.7	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-028-02.0-S (H232463-13)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTEX	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	304	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-029-02.0-S (H232463-14)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTX	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	320	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-030-01.0-S (H232463-15)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTX	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	544	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CF-031-01.0-S (H232463-16)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTX	<0.300	0.300	05/19/2023	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	496	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-033-01.0-S (H232463-17)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTX	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	05/18/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-034-01.0-S (H232463-18)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTX	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	304	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	50.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	22.5	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-035-01.0-S (H232463-19)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTX	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	05/18/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-036-01.0-S (H232463-20)

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	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	<0.050	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTX	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	256	16.0	05/18/2023	ND	416	104	400	7.41	

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	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-037-01.0-S (H232463-21)

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	05/19/2023	ND	2.37	119	2.00	1.61		
Toluene*	0.079	0.050	05/19/2023	ND	2.34	117	2.00	1.99		
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81		
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24		
Total BTEx	<0.300	0.300	05/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	768	16.0	05/18/2023	ND	416	104	400	7.41		

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	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	27.1	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	10.4	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 05/16/2023
 Reported: 05/22/2023
 Project Name: SAND DUNES CTB
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CW-038-01.0-S (H232463-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.37	119	2.00	1.61	
Toluene*	0.099	0.050	05/19/2023	ND	2.34	117	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.30	115	2.00	1.81	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.03	117	6.00	2.24	
Total BTEx	<0.300	0.300	05/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1040	16.0	05/18/2023	ND	416	104	400	7.41	

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	05/18/2023	ND	172	86.0	200	8.75	
DRO >C10-C28*	11.8	10.0	05/18/2023	ND	181	90.6	200	7.77	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

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[illegible]

Tamara Oldaker

From: Dan Dunkelberg <dan@trinityoilfieldservices.com>
Sent: Wednesday, May 17, 2023 8:19 AM
To: Shalyn Rodriguez
Cc: Tamara Oldaker
Subject: Re: SAN DUNES CTB

Please sample for Chloride, TPH, and BTEX on all missing analysis. Thank you!

Dan Dunkelberg
Environmental Regulatory Manager



Trinity Oilfield Services & Rentals, LLC
Cell: (575) 602-2403

On Tue, May 16, 2023 at 4:47 PM Shalyn Rodriguez <Shalyn.Rodriguez@cardinallabsnm.com> wrote:

Dan, the second page of these coCs is missing analysis for half of the samples.

Would you like them tested? If so what for?

Thanks so much! (:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 224640

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 224640
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or drilling operations.	8/31/2023