



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDIATION WORKPLAN

OXY – SAND DUNES S. CORRIDOR CTB (Leak Date: 9/22/20)

Incident Reference #: NRM2028955593

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2028955593.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD rules, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram.

The leak area near SP1, SP3, and SP4 (purple shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP2 and SP5 – SP9 (green shade on diagram) will be excavated to a depth of 1 foot.

OXY will collect sidewall and confirmation samples every 400 square feet. The estimated amount of soil to be excavated is 265 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	NRM2028955593
District RP	
Facility ID	
Application ID	

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 1/2-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.


Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2028955593
District RP	
Facility ID	
Application ID	

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

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NRM2028955593
District RP	
Facility ID	
Application ID	

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.

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

OCD Only

Received by: Chad Hensley Date: 03/24/2021


- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

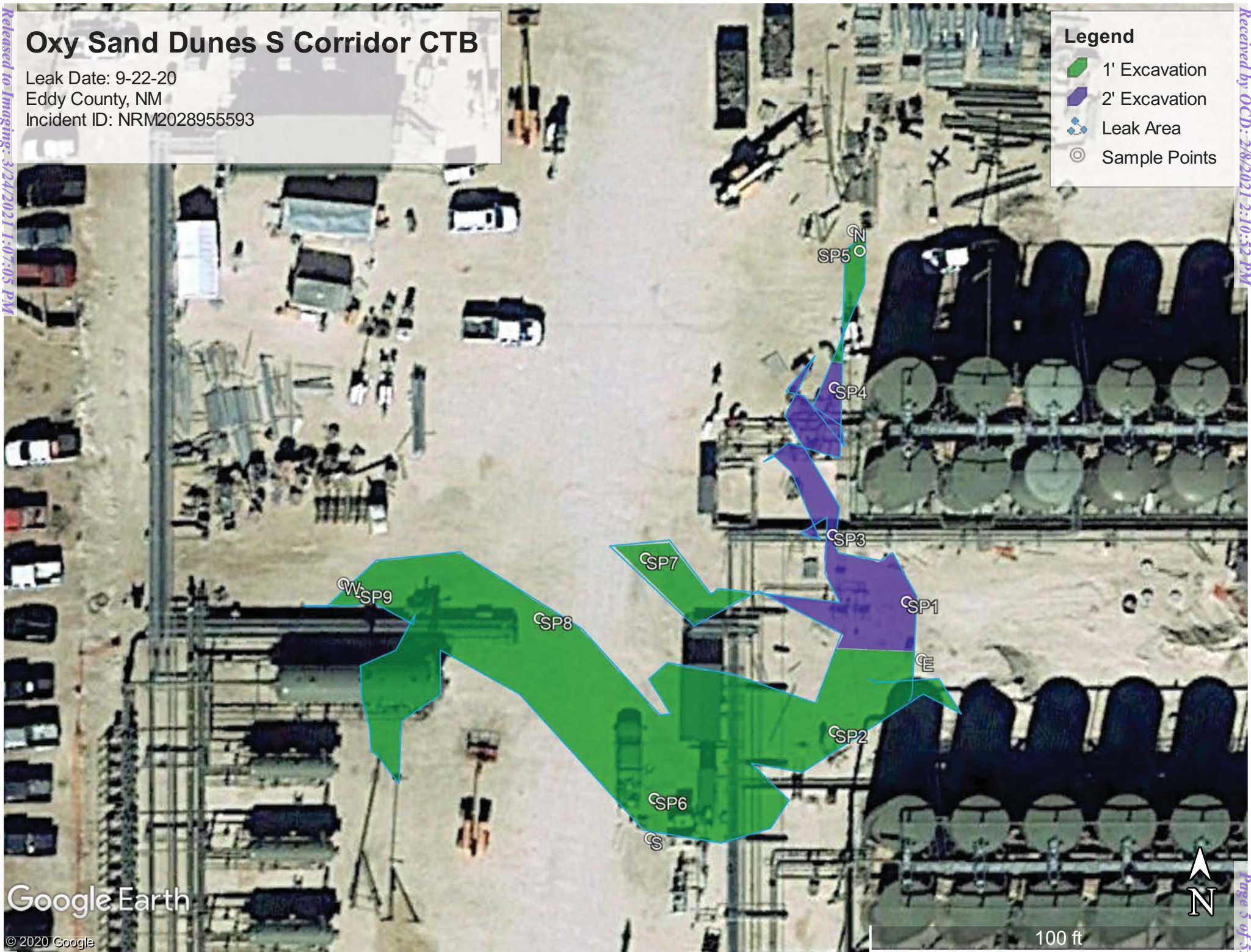
Signature:  Date: 03/24/2021

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

© 2020 Google

100 ft



Oxy Sand Dunes S. Corridor CTB (9-22-20)

Sample Points:

SP1 32.22356 W -103.81331

SP2 32.22347 W -103.81338

SP3 32.22361 W -103.81338

SP4 32.22372 W -103.81338

SP5 32.22382 W -103.81335

SP6 32.22342 W -103.81353

SP7 32.22360 W -103.81354

SP8 32.22355 W -103.81363

SP9 32.22357 W -103.81378

SP10 32.22346 W -103.81376

North 32.22383 W -103.81336

East 32.22352 W -103.81330

West 32.22358 W -103.81380

South 32.22339 W -103.81353



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- **Notice** - The USGS Water Resources Mission Area's priority is to maintain the safety and well-being of our communities, including providing critical situational awareness in times of flooding in all 50 U.S. states and additional territories. Our hydrologic monitoring stations continue to send data in near real-time to NWISWeb, and we are continuing critical water monitoring activities to protect life and property on a case-by-case basis. The health and safety of the public and our employees are our highest priorities, and we continue to follow guidance from the White House, the CDC, and state and local authorities.
- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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 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	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1959-02-03		D	70.50			2	P	U		
1959-03-25		D	67.67			2		U		
1976-12-02		D	66.02			2		U		
2013-01-17	14:00 MST	m	74.44			2		S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.

Section	Code	Description
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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 [U.S. Geological Survey](#)



Title: Groundwater for New Mexico: Water Levels

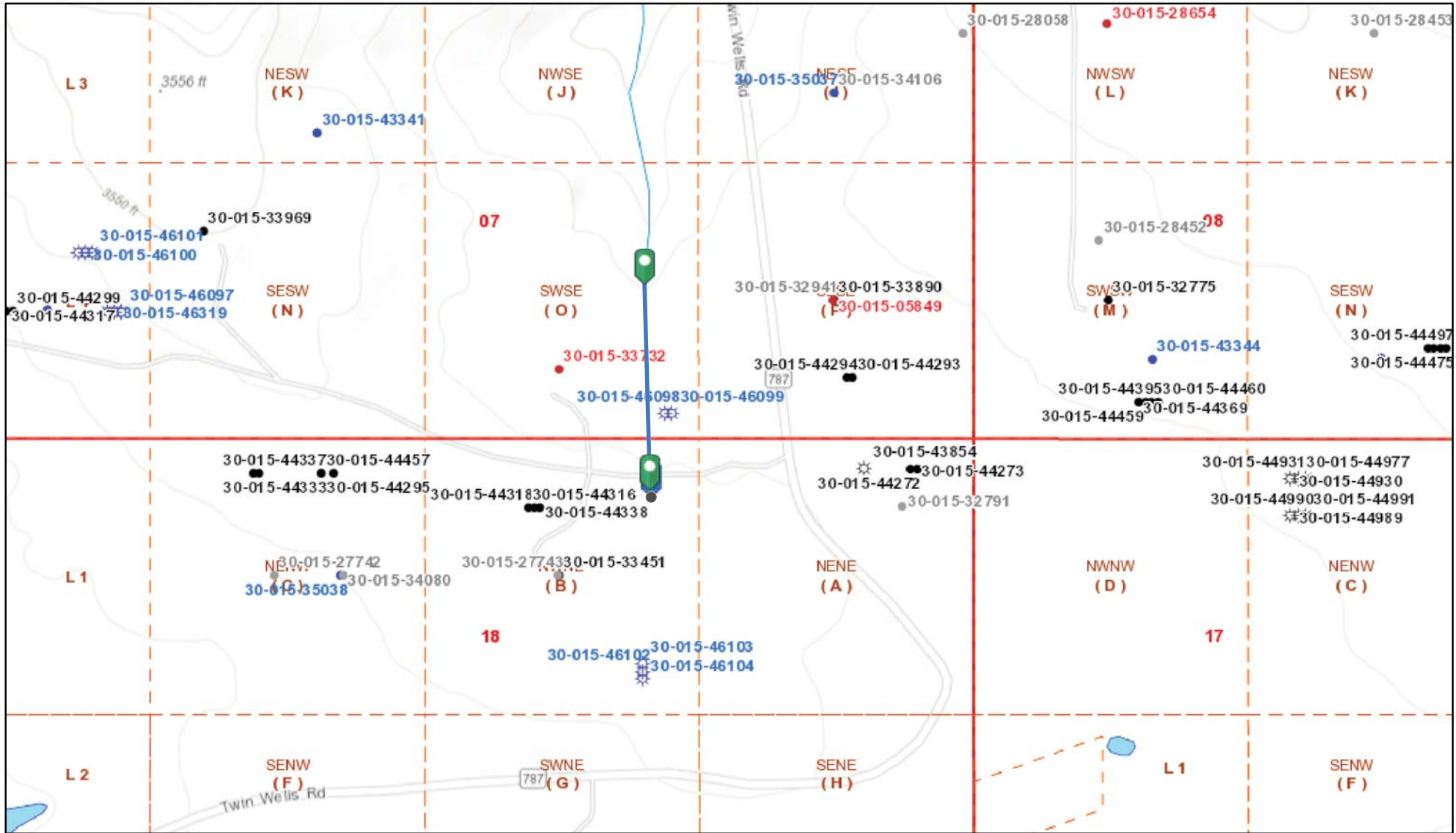
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-04-07 16:58:31 EDT

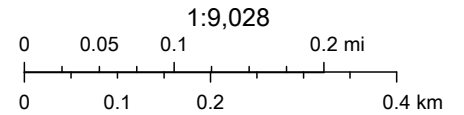
0.34 0.26 nadww01

Oxy Sand Dunes S Corridor CTB (9-22-20) 975 ft to h2o



9/29/2020, 4:40:59 PM

- | | | | | |
|---------------------|------------------------------|------------------|------------------------------|----------------------|
| Wells - Large Scale | ☼ CO2, Cancelled | ☼ Gas, Active | ☼ Gas, Temporarily Abandoned | 📍 Injection, Plugged |
| ? | ☼ CO2, New | ☼ Gas, Cancelled | 📍 Injection, Active | |
| ● Miscellaneous | ☼ CO2, Plugged | ☼ Gas, New | 📍 Injection, Cancelled | |
| ☼ CO2, Active | ☼ CO2, Temporarily Abandoned | ☼ Gas, Plugged | 📍 Injection, New | |



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c)

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division


Oxy, Sand Dunes S. Corridor CTB

Leak Date: 9-22-20
ddy County, NM

Released to Imaging: 3/24/2021 1:07:05 PM

BLM CAVE KARST MAP

Legend

-  Leak Area

Received by OCD: 2/8/2021 2:10:52 PM

Twin Wells Rd



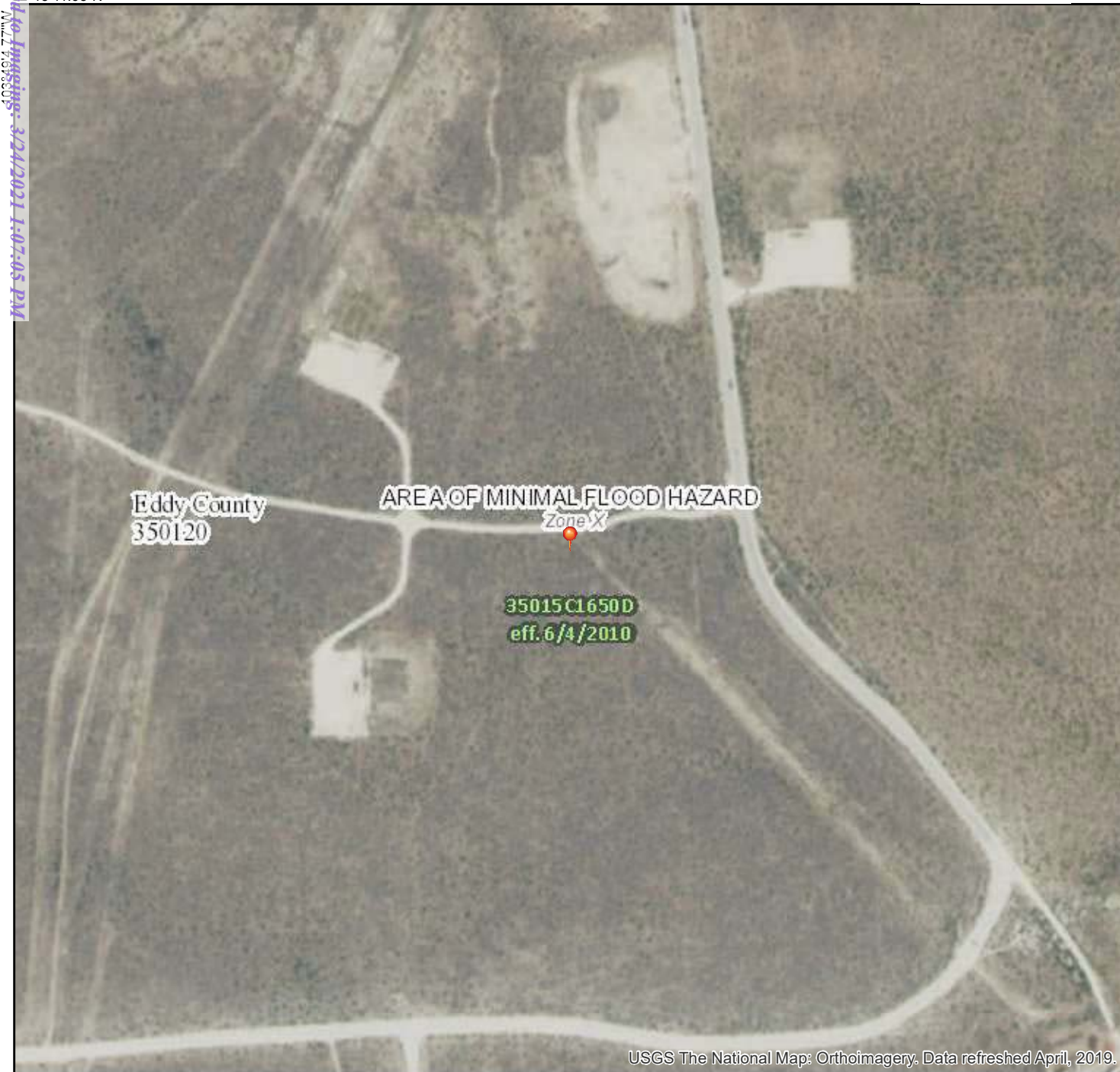
National Flood Hazard Layer FIRMette



32°13'41.65"N

Retrieved by: 3/21/2021 1:07:05 PM

Retrieved by: 2/8/2021 2:10:52 PM



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
		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
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

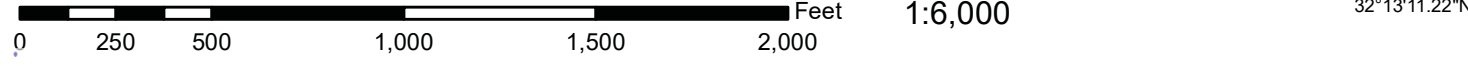
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 4/7/2020 at 5:04:13 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.

Page 11 of 52



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



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".

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)

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	1.84	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 BTEX	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

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* = Accredited Analyte

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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)

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	1.84	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 BTEX	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)

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	1.84	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 BTEX	0.726	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	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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*=Accredited Analyte

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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)

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	1.84	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 BTEX	0.556	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	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)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	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 BTEX	19.7	1.20	10/22/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-06	
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



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: SP 1 @ 1' (H002787-06)

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	10/23/2020	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 BTEX	1.12	0.300	10/23/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
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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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 2 @ SURFACE (H002787-08)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	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 BTEX	52.8	1.20	10/23/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
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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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 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, SM4500Cl-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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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: 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)

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	10/23/2020	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 BTEX	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		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)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	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 BTEX	16.3	0.600	10/26/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
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)

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) 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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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:	10/16/2020
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)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.562	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 BTEX	96.9	3.00	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 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	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)

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	10/21/2020	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 BTEX	1.32	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	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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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:	10/16/2020
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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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 5 @ SURFACE (H002787-18)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	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 BTEX	29.4	0.600	10/22/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
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)

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) 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)

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) 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)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	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 BTEX	25.1	1.20	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	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)

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*	0.399	0.150	10/23/2020	ND	5.87	97.8	6.00	6.27	
Total BTEX	0.450	0.300	10/23/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	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)

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) 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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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:	10/16/2020
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				S-06	
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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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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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)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	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 BTEX	66.4	3.00	10/24/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 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	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



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:	10/20/2020
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)

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) 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



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:	10/20/2020
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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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 @ 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				S-06	
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)

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) 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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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(1 of 4)

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.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV.	SAMPLING	CL	BTEX	TPH	EXT											
	H002787		G																		
	1	N @ Surface	I				10/15/20	11:05 AM	✓	✓	✓										
	2	E @ Surface	I				10/15/20	11:14 AM	✓	✓	✓										
	3	W @ Surface	I				10/15/20	11:25 AM	✓	✓	✓										
	4	S @ Surface	I				10/15/20	11:41 AM	✓	✓	✓										
	5	SP1 @ Surface	I				10/15/20	11:55 AM	✓	✓	✓										
	6	SP1 @ 1'	I				10/15/20	12:45 PM	✓	✓	✓										
	7	SP1 @ 2'	I				10/15/20	1:04 PM	✓	✓	✓										
	8	SP2 @ Surface	I				10/15/20	1:15 PM	✓	✓	✓										
	9	SP2 @ 1'	I				10/15/20	1:28 PM	✓	✓	✓										
	10	SP2 @ 2'	I				10/15/20	1:47 PM	✓	✓	✓										

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Relinquished By:	Date: 10-20-20 Time: 5:00	Received By: Jennifer Gelkey	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: Jennifer Gelkey	Date: 10-21-20 Time: 9:40	Received By: Jodi Hanson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <u>UPS</u>	-2.82 / #113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:	
Sampler - UPS - Bus - Other:		CHECKED BY:		

† 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

(304)

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

FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		CL	BTEX	TPH	EXT										
Lab I.D.	Sample I.D.			DATE	TIME														
H602787																			
21	SP6 @ Surface			10/16/20	10:58 AM	✓	✓	✓											
22	SP6 @ 1'			10/16/20	11:16 AM	✓	✓	✓											
23	SP6 @ 2'			10/16/20	11:32 AM	✓	✓	✓											
24	SP7 @ Surface			10/16/20	11:50 AM	✓	✓	✓											
25	SP7 @ 1'			10/16/20	12:21 PM	✓	✓	✓											
26	SP8 @ Surface			10/20/20	9:00 AM	✓	✓	✓											
27	SP8 @ 1'			10/20/20	9:14 AM	✓	✓	✓											
28	SP8 @ 2'			10/20/20	9:34 AM	✓													
29	SP9 @ Surface			10/20/20	9:51 AM	✓	✓	✓											
30	SP9 @ 1'			10/20/20	10:12 AM	✓	✓	✓											

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

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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 17435

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	17435	Action Type:	C-141
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OCD Reviewer	Condition
chensley	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.