



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 – ROO 22 ST #1 (Leak Date: 12/13/20)

Incident ID: NAPP2106853422

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2106853422.

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 – SP2, SP4 – SP6 (YELLOW shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3 (ORANGE shade on diagram) will be excavated to a depth of 2 feet.

Bottom and sidewall confirmation samples will be collected at no greater than 300 square ft. intervals. Estimated volume of material to be removed is 264 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 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

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Incident ID	NAPP2106853422
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?	45 (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

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Incident ID	NAPP2106853422
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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: 3-16-21

email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2106853422
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: 3-16-21
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Chad Hensley Date: 05/03/2021





- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

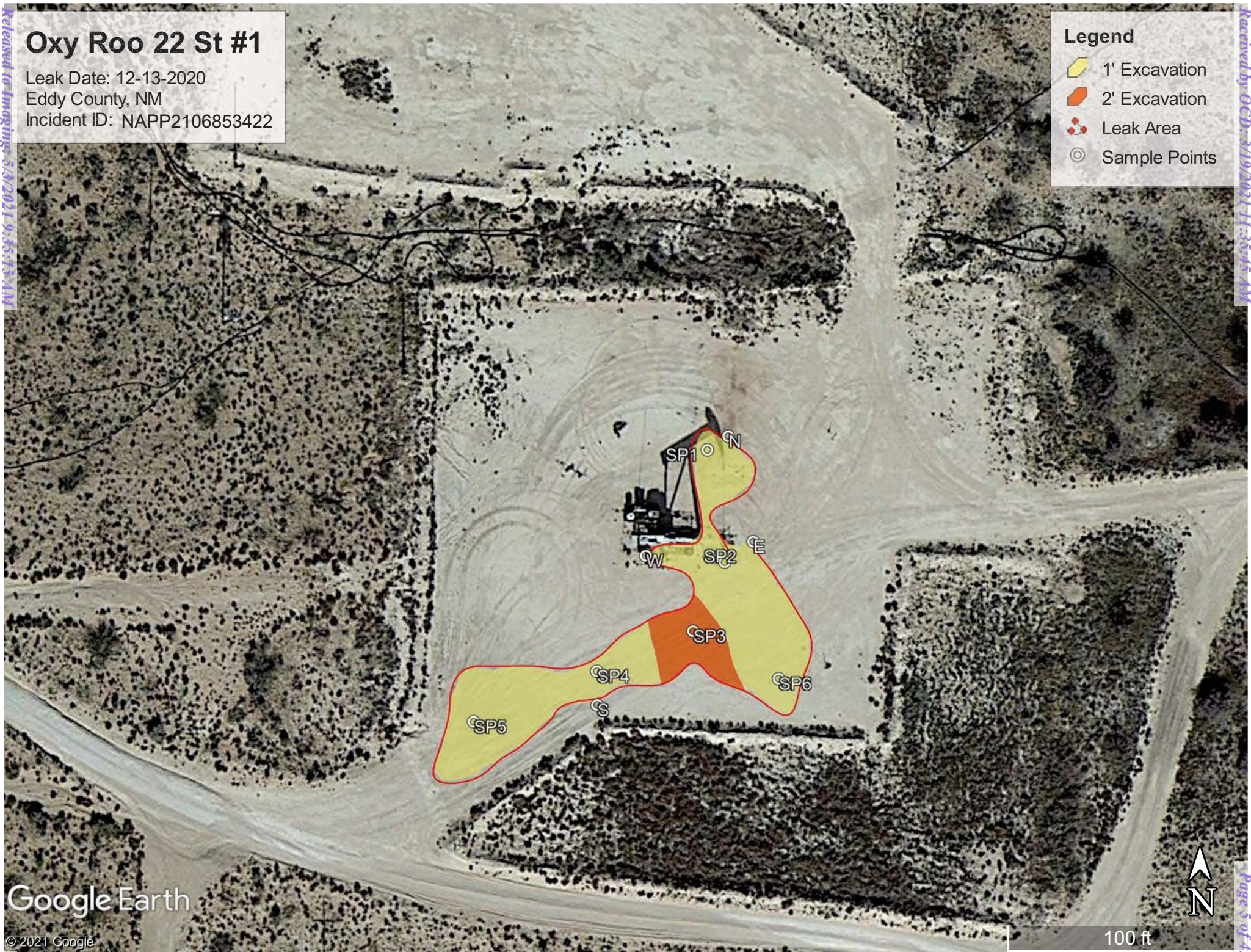
Signature:  Date: 05/03/2021

Oxy Roo 22 St #1

Leak Date: 12-13-2020
Eddy County, NM
Incident ID: NAPP2106853422

Legend

-  1' Excavation
-  2' Excavation
-  Leak Area
-  Sample Points



Google Earth

© 2021 Google



100 ft

Oxy, Roo St #1 (12-13-20)

Sample points

SP1, N 32.82502 W 104.18336

SP2, N 32.82497 W 104.18341

SP3, N 32.82509 W 104.18337

SP4, N 32.82528 W 104.18337

SP5, N 32.82513 W 104.18342

SP6, N 32.82522 W 104.18341

NORTH, N 32.82539 W 104.18339

EAST, N 32.31863 W 104.18206

WEST, N 32.82521 W 104.18344

SOUTH, N 32.82493 W 104.18344



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico

Click to hide News Bulletins

- Explore the **NEW USGS National Water Dashboard** to access real-time data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 324858104091901

Minimum number of levels = 1

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

USGS 324858104091901 17S.28E.22.442442

Eddy County, New Mexico
 Latitude 32°48'58", Longitude 104°09'19" NAD27
 Land-surface elevation 3,582 feet above NAVD88
 This well is completed in the San Andres Limestone (313SADR) 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
1948-12-01		D	45.50			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)

[Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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

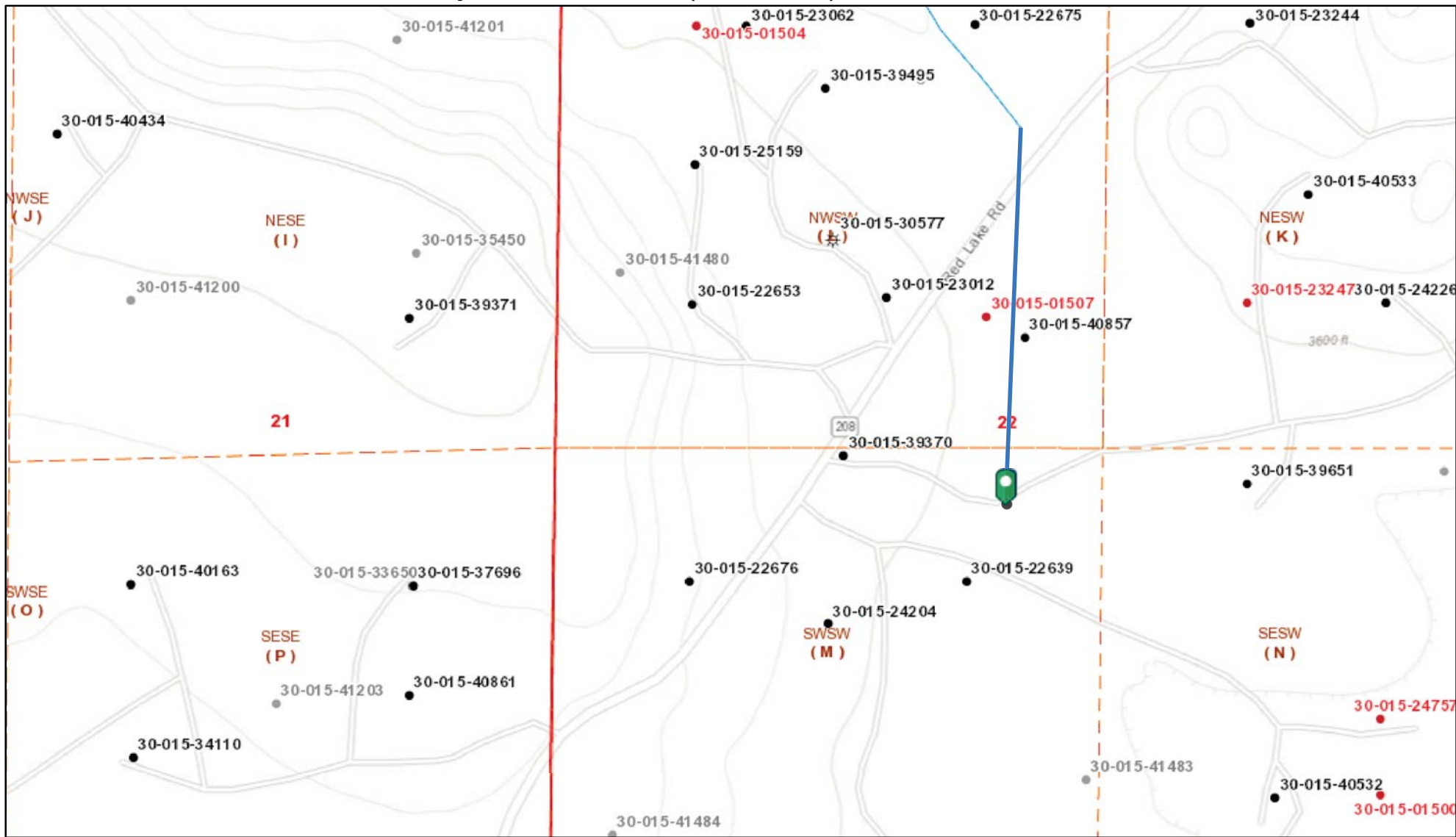


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-12-21 16:11:53 EST

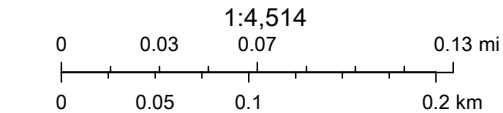
0.26 0.24 nadww01

Oxy Roo 22 St #1 (12-13-20) 890 ft to h2o



12/21/2020, 2:21:20 PM

- | | | | | |
|---------------------|------------------------------|------------------|------------------------------|----------------------|
| Wells - Large Scale | ✳ CO2, Cancelled | ✳ Gas, Active | ✳ Gas, Temporarily Abandoned | ⚙ Injection, Plugged |
| ⚙ undefined | ✳ 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., OCD, Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, BLM

Oxy Roo St #1

Leak Date: 12-13-20
Eddy County, NM
NAPP2106853422

BLM CAVE KARST MAP

Legend

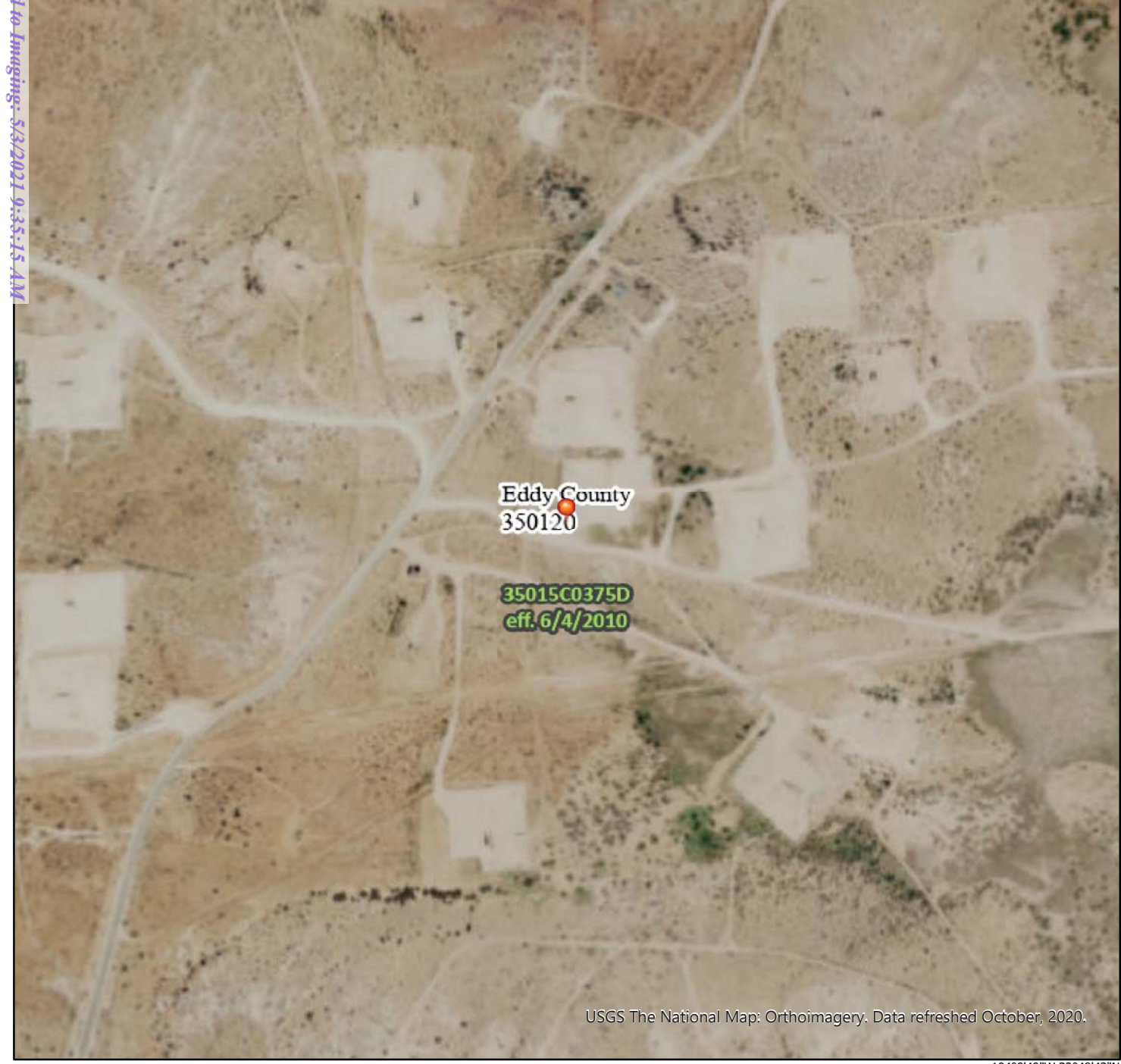
-  Leak Area
-  Low Potential



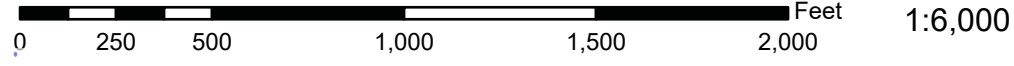
National Flood Hazard Layer FIRMette



104°10'26"W 32°49'13"N



USGS The National Map: Orthoimagery. Data refreshed October, 2020.



104°9'49"W 32°48'43"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone Z</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone X</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		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 **12/21/2020 at 4:09 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.

Retrieved to Imaging: 5/3/2021 9:35:15 AM

Retrieved by OCD: 3/10/2021 11:35:45 AM

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Laboratory Analytical Results Summary
 Oxy, Roo 22 St #1 12-13-20

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/28/20	12/28/20	12/28/20	12/28/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.162	0.102	0.081	0.092
Ethylbenzene	BTEX 8021B		0.137	0.093	0.071	0.092
Total Xylenes	BTEX 8021B		0.226	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.525	0.317	<0.300	0.305
Chloride	SM4500Cl-B		32.0	32.0	32.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	12/28/20	12/28/20	12/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		23200	432	288
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	12/28/20	12/28/20	12/28/20	12/28/20	12/28/20	12/28/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.173	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		4.55	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		14.8	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		29.1	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		48.6	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		19400	176	384	320	80.0	64.0
GRO	TPH 8015M		975	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		15600	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		2860	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	12/28/20	12/28/20	12/28/20	12/28/20	12/28/20	12/28/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		2.63	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		24.3	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		30.8	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		48.9	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		107	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		23400	848	144	240	256	48.0
GRO	TPH 8015M		1470	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		9170	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		1560	<10.0	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Roo 22 St #1 12-13-20

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
			Surface				
			12/28/20	12/28/20	12/28/20	12/28/20	12/28/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.179	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.709	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.97	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		2.86	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		17800	272	544	112	80.0
GRO	TPH 8015M		48.8	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		1440	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		254	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
			Surface			
			12/29/20	12/29/20	12/29/20	12/29/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.050	n/a	n/a
Toluene	BTEX 8021B		1.55	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		14.7	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		35	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		51.2	<0.300	n/a	n/a
Chloride	SM4500Cl-B		736	32.0	384	176
GRO	TPH 8015M		1250	<10.0	n/a	n/a
DRO	TPH 8015M		29200	15.1	n/a	n/a
EXT DRO	TPH 8015M		5980	<10.0	n/a	n/a

Analyte	Method	Sample ID	SP6 @	SP6 @ 1'	SP6 @ 2'
			Surface		
			12/29/20	12/29/20	12/29/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.174	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.228	<0.050	n/a
Total Xylenes	BTEX 8021B		0.434	<0.150	n/a
Total BTEX	BTEX 8021B		0.836	<0.300	n/a
Chloride	SM4500Cl-B		6660	384	160
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		8650	<10.0	n/a
EXT DRO	TPH 8015M		2440	<10.0	n/a



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

January 04, 2021

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: ROO 22 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 12/30/20 16:00.

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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: N @ SURFACE (H003363-01)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	0.162	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	0.137	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	0.226	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	0.525	0.300	12/31/2020	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	32.0	16.0	01/04/2021	ND	368	92.0	400	8.33	

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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: E @ SURFACE (H003363-02)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	0.102	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	0.093	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	0.317	0.300	12/31/2020	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	32.0	16.0	01/04/2021	ND	368	92.0	400	8.33	

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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.0 % 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: 12/30/2020
Reported: 01/04/2021
Project Name: ROO 22 STATE #1
Project Number: (12-13-20)
Project Location: OXY- EDDY CO NM

Sampling Date: 12/28/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: W @ SURFACE (H003363-03)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	0.081	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	0.071	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	<0.300	0.300	12/31/2020	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	32.0	16.0	01/04/2021	ND	368	92.0	400	8.33	

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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.1 % 42.2-156

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Analytical Results For:

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

Received:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: S @ SURFACE (H003363-04)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	0.092	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	0.092	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	0.305	0.300	12/31/2020	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	<16.0	16.0	01/04/2021	ND	368	92.0	400	8.33	

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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.1 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H003363-05)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	<0.050	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	<0.300	0.300	12/31/2020	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	23200	16.0	01/04/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ 1' (H003363-06)

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	12/31/2020	ND	1.97	98.4	2.00	1.28	
Toluene*	<0.050	0.050	12/31/2020	ND	1.90	94.8	2.00	1.25	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.6	2.00	1.74	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.61	93.5	6.00	1.57	
Total BTEX	<0.300	0.300	12/31/2020	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	432	16.0	01/04/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.3 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 1 @ 2' (H003363-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/04/2021	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H003363-08)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.173	0.100	01/04/2021	ND	1.96	98.0	2.00	2.20	
Toluene*	4.55	0.100	01/04/2021	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	14.8	0.100	01/04/2021	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	29.1	0.300	01/04/2021	ND	5.63	93.8	6.00	1.90	
Total BTEX	48.6	0.600	01/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 201 % 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	19400	16.0	01/04/2021	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*	975	50.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	15600	50.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	2860	50.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 386 % 44.3-144

Surrogate: 1-Chlorooctadecane 485 % 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: 12/30/2020
Reported: 01/04/2021
Project Name: ROO 22 STATE #1
Project Number: (12-13-20)
Project Location: OXY- EDDY CO NM

Sampling Date: 12/28/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SP 2 @ 1' (H003363-09)

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	12/31/2020	ND	1.96	98.0	2.00	2.20	
Toluene*	<0.050	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90	
Total BTEX	<0.300	0.300	12/31/2020	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	176	16.0	01/04/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

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Analytical Results For:

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

Received:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 2 @ 2' (H003363-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 2 @ 3' (H003363-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 2 @ 4' (H003363-12)

Chloride, SM4500Cl-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	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 2 @ 5' (H003363-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/04/2021	ND	400	100	400	3.92	

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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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H003363-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.63	0.500	01/01/2021	ND	1.96	98.0	2.00	2.20	
Toluene*	24.3	0.500	01/01/2021	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	30.8	0.500	01/01/2021	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	48.9	1.50	01/01/2021	ND	5.63	93.8	6.00	1.90	
Total BTEX	107	3.00	01/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	23400	16.0	01/04/2021	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*	1470	50.0	12/31/2020	ND	222	111	200	0.0542		
DRO >C10-C28*	9170	50.0	12/31/2020	ND	223	112	200	2.45		
EXT DRO >C28-C36	1560	50.0	12/31/2020	ND						

Surrogate: 1-Chlorooctane 202 % 44.3-144

Surrogate: 1-Chlorooctadecane 321 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ 1' (H003363-15)

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	12/31/2020	ND	1.96	98.0	2.00	2.20	
Toluene*	<0.050	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90	
Total BTEX	<0.300	0.300	12/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	848	16.0	01/04/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.9 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 3 @ 2' (H003363-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 3 @ 3' (H003363-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 3 @ 4' (H003363-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 3 @ 5' (H003363-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/04/2021	ND	400	100	400	3.92	

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Received: 12/30/2020
Reported: 01/04/2021
Project Name: ROO 22 STATE #1
Project Number: (12-13-20)
Project Location: OXY- EDDY CO NM

Sampling Date: 12/28/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SP 4 @ SURFACE (H003363-20)

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	01/04/2021	ND	1.96	98.0	2.00	2.20	
Toluene*	0.179	0.050	01/04/2021	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	0.709	0.050	01/04/2021	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	1.97	0.150	01/04/2021	ND	5.63	93.8	6.00	1.90	
Total BTEX	2.86	0.300	01/04/2021	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	17800	16.0	01/04/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.8	10.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	1440	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	254	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 4 @ 1' (H003363-21)

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	12/31/2020	ND	1.96	98.0	2.00	2.20		
Toluene*	<0.050	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10		
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92		
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90		
Total BTEX	<0.300	0.300	12/31/2020	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	272	16.0	01/04/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/31/2020	ND	222	111	200	0.0542		
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45		
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND						

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 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:	12/30/2020	Sampling Date:	12/28/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 4 @ 2' (H003363-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 4 @ 3' (H003363-23)

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	01/04/2021	ND	400	100	400	3.92	

Sample ID: SP 4 @ 5' (H003363-24)

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	01/04/2021	ND	400	100	400	3.92	

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	12/30/2020	Sampling Date:	12/29/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ SURFACE (H003363-25)

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	01/04/2021	ND	1.96	98.0	2.00	2.20	
Toluene*	1.55	0.100	01/04/2021	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	14.7	0.100	01/04/2021	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	35.0	0.300	01/04/2021	ND	5.63	93.8	6.00	1.90	
Total BTEX	51.2	0.600	01/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 269 % 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	736	16.0	01/04/2021	ND	400	100	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*	1250	50.0	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	29200	50.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	5980	50.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 575 % 44.3-144

Surrogate: 1-Chlorooctadecane 866 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	12/30/2020	Sampling Date:	12/29/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ 1' (H003363-26)

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	12/31/2020	ND	1.96	98.0	2.00	2.20	
Toluene*	<0.050	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90	
Total BTEX	<0.300	0.300	12/31/2020	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	32.0	16.0	01/04/2021	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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	15.1	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 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:	12/30/2020	Sampling Date:	12/29/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 5 @ 2' (H003363-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/04/2021	ND	400	100	400	0.00	

Sample ID: SP 5 @ 3' (H003363-28)

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	01/04/2021	ND	400	100	400	0.00	

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Received:	12/30/2020	Sampling Date:	12/29/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 6 @ SURFACE (H003363-29)

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	12/31/2020	ND	1.96	98.0	2.00	2.20	
Toluene*	0.174	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	0.228	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	0.434	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90	
Total BTEX	0.836	0.300	12/31/2020	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	6660	16.0	01/04/2021	ND	400	100	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*	<50.0	50.0	12/31/2020	ND	222	111	200	0.0542		
DRO >C10-C28*	8650	50.0	12/31/2020	ND	223	112	200	2.45		
EXT DRO >C28-C36	2440	50.0	12/31/2020	ND						

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 423 % 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: 12/30/2020
Reported: 01/04/2021
Project Name: ROO 22 STATE #1
Project Number: (12-13-20)
Project Location: OXY- EDDY CO NM

Sampling Date: 12/29/2020
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SP 6 @ 1' (H003363-30)

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	12/31/2020	ND	1.96	98.0	2.00	2.20	
Toluene*	<0.050	0.050	12/31/2020	ND	1.88	94.0	2.00	2.10	
Ethylbenzene*	<0.050	0.050	12/31/2020	ND	1.97	98.5	2.00	1.92	
Total Xylenes*	<0.150	0.150	12/31/2020	ND	5.63	93.8	6.00	1.90	
Total BTEX	<0.300	0.300	12/31/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	384	16.0	01/04/2021	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	12/31/2020	ND	222	111	200	0.0542	
DRO >C10-C28*	<10.0	10.0	12/31/2020	ND	223	112	200	2.45	
EXT DRO >C28-C36	<10.0	10.0	12/31/2020	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 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:	12/30/2020	Sampling Date:	12/29/2020
Reported:	01/04/2021	Sampling Type:	Soil
Project Name:	ROO 22 STATE #1	Sampling Condition:	Cool & Intact
Project Number:	(12-13-20)	Sample Received By:	Celey D. Keene
Project Location:	OXY- EDDY CO NM		

Sample ID: SP 6 @ 2' (H003363-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/04/2021	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(284)

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 Zip: 88241		Address:							
Phone #: 575-397-6388		City:							
Fax #: 575-397-0397		State: Zip:							
Project #: Project Owner: Oxy		Phone #:							
Project Name: ROO 22 ST #1 (R-13-20)		Fax #:							
Project Location: EDDY COUNTY, NM									
Sampler Name: Simon Rendon									

Lab I.D.	Sample I.D.	(G)IRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CL	BTEX	TPH EXT	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE				TIME
11	SP2 @ 3'	G	1										12/28/20	11:57 AM	✓		
12	SP2 @ 4'	G	1										12/28/20	12:46 PM	✓		
13	SP2 @ 5'	G	1										12/28/20	1:03 PM	✓		
14	SP3 @ Surface	G	1										12/28/20	1:16 PM	✓	✓	✓
15	SP3 @ 1'	G	1										12/28/20	1:53 PM	✓	✓	✓
16	SP3 @ 2'	G	1										12/28/20	1:47 PM	✓		
17	SP3 @ 3'	G	1										12/28/20	2:09 PM	✓		
18	SP3 @ 4'	G	1										12/28/20	2:24 PM	✓		
19	SP3 @ 5'	G	1										12/28/20	2:41 PM	✓		
20	SP4 @ Surface	G	1										12/28/20	2:49 PM	✓	✓	✓

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Relinquished By:	Date: 12-30-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Time: 8:00 AM			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	
Relinquished By:	Date: 12-30-20	Received By:	REMARKS:		
Time: 4:00 PM					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-3.2°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) Coh #113		

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(3084)

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company: OXY													
City: Hobbs State: NM Zip: 88241		Attn: WADE													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: Oxy		City:													
Project Name: ROO 22 ST #1 (12-13-20)		State: Zip:													
Project Location: EDDY COUNTY, NM		Phone #:													
Sampler Name: Simon Rendon		Fax #:													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		CL	BTEX	TPH	EXT	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE					TIME
21	SP4 @ 1'	G	1										12/28/20	3:00 AM	✓	✓	✓	
22	SP4 @ 2'												12/28/20	3:10 AM	✓			
23	SP4 @ 3'												12/29/20	9:20 AM	✓			
24	SP4 @ 5'												12/29/20	9:34 AM	✓			
25	SP5 @ Surface												12/29/20	9:50 AM	✓	✓	✓	
26	SP5 @ 1'												12/29/20	10:07 AM	✓	✓	✓	
27	SP5 @ 2'												12/29/20	10:36 AM	✓			
28	SP5 @ 3'												12/29/20	10:53 AM	✓			
29	SP6 @ Surface												12/29/20	11:12 AM	✓	✓	✓	
30	SP6 @ 1'												12/29/20	11:26 AM	✓	✓	✓	

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Relinquished By: <i>[Signature]</i>	Date: 12-30-20	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 8:00 AM			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: 12-30-20	Received By: <i>[Signature]</i>	REMARKS:	
Time: 4:00 AM				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-3.2°C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>Cash #113</i>	

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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 21396

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	21396	Action Type:	C-141
OCD Reviewer				Condition					
chensley				None					