



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
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DELINEATION/REMEDATION WORKPLAN

OXY – ARTESIA YESO CTB (Leak Date: 11/16/20)

Incident ID: NRM2035144227

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2035144227.

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 SP2 and SP7 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP1 and SP3 (PURPLE shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP6 (ORANGE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP4 and SP5 (LIGHT BLUE shade on diagram) will require zero excavation.

Bottom and sidewall confirmation samples will be collected at no greater than 300 square ft. intervals. Estimated volume of material to be removed is 284 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

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2035144227
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table I 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	NRM2035144227
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: 3-16-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2035144227
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 CoordinatorSignature:  Date: 3-16-21email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Oxy Artesia Yeso CTB

Leak Date: 11-16-2020
Eddy County, NM
API: 30-015-40709
Incident ID: NRM2035144227

Legend

2' Excavation

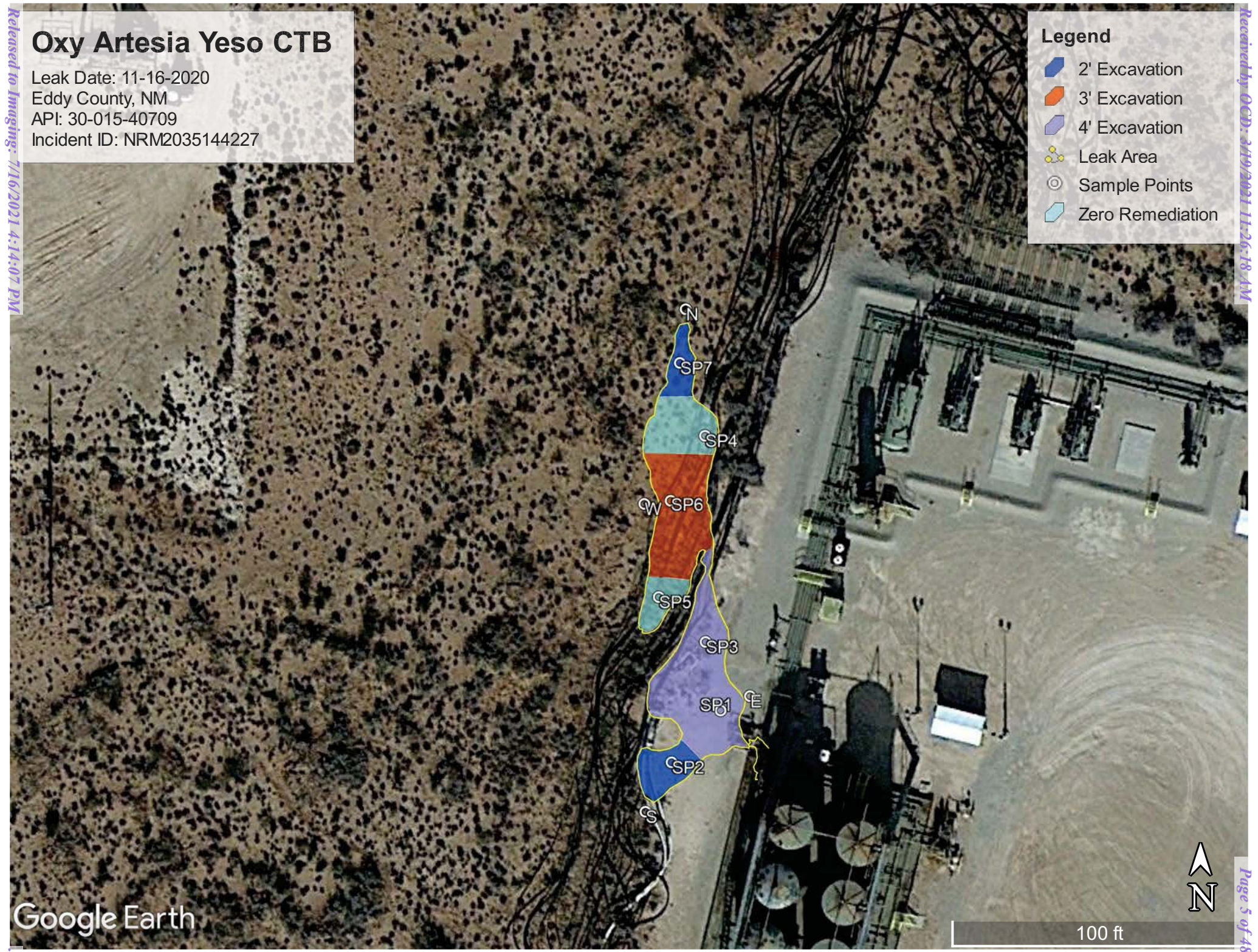
3' Excavation

4' Excavation

Leak Area

Sample Points

Zero Remediation



Oxy, Artesia Yeso CTB (11-16-20)

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

SP7, N 32.82534 W 104.18340

SP8, N 32.31876 W 104.18251

SP9, N 32.31873 W 104.18236

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
GO

Click to hideNews 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?](#)

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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?>

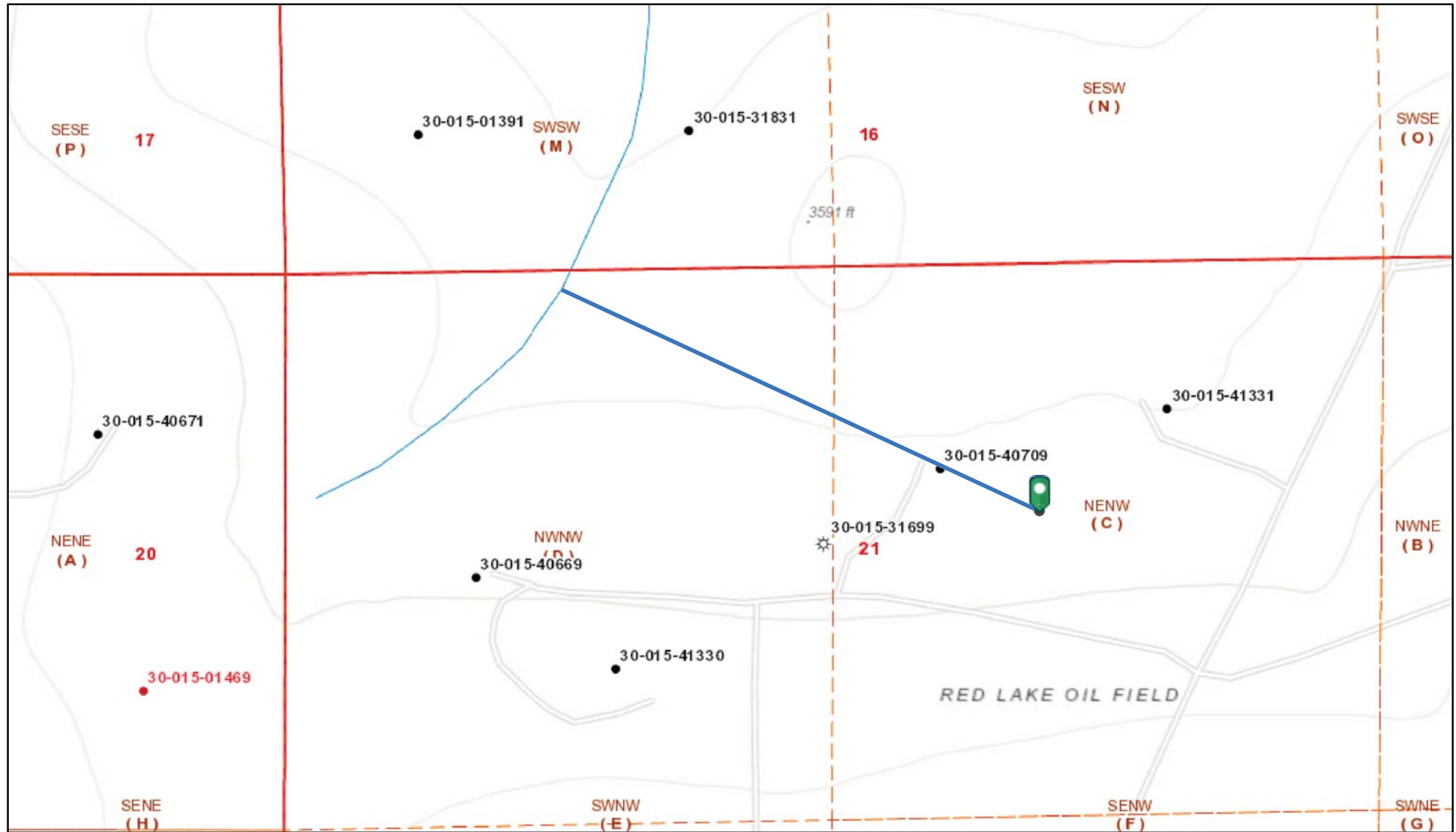


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-11-24 11:38:00 EST

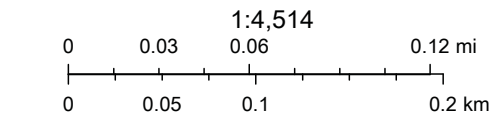
0.29 0.26 nadww02

Oxy Artesia Yeso CTB (11-16-20) 1,260ft to h2o



11/24/2020, 9:17:04 AM

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

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, Artesia Yeso CTB

Leak Date: 11-16-2020
Eddy County, NM
API: 30-015-40709
Incident ID: NRM2035144227

BLM CAVE KARST MAP

Legend

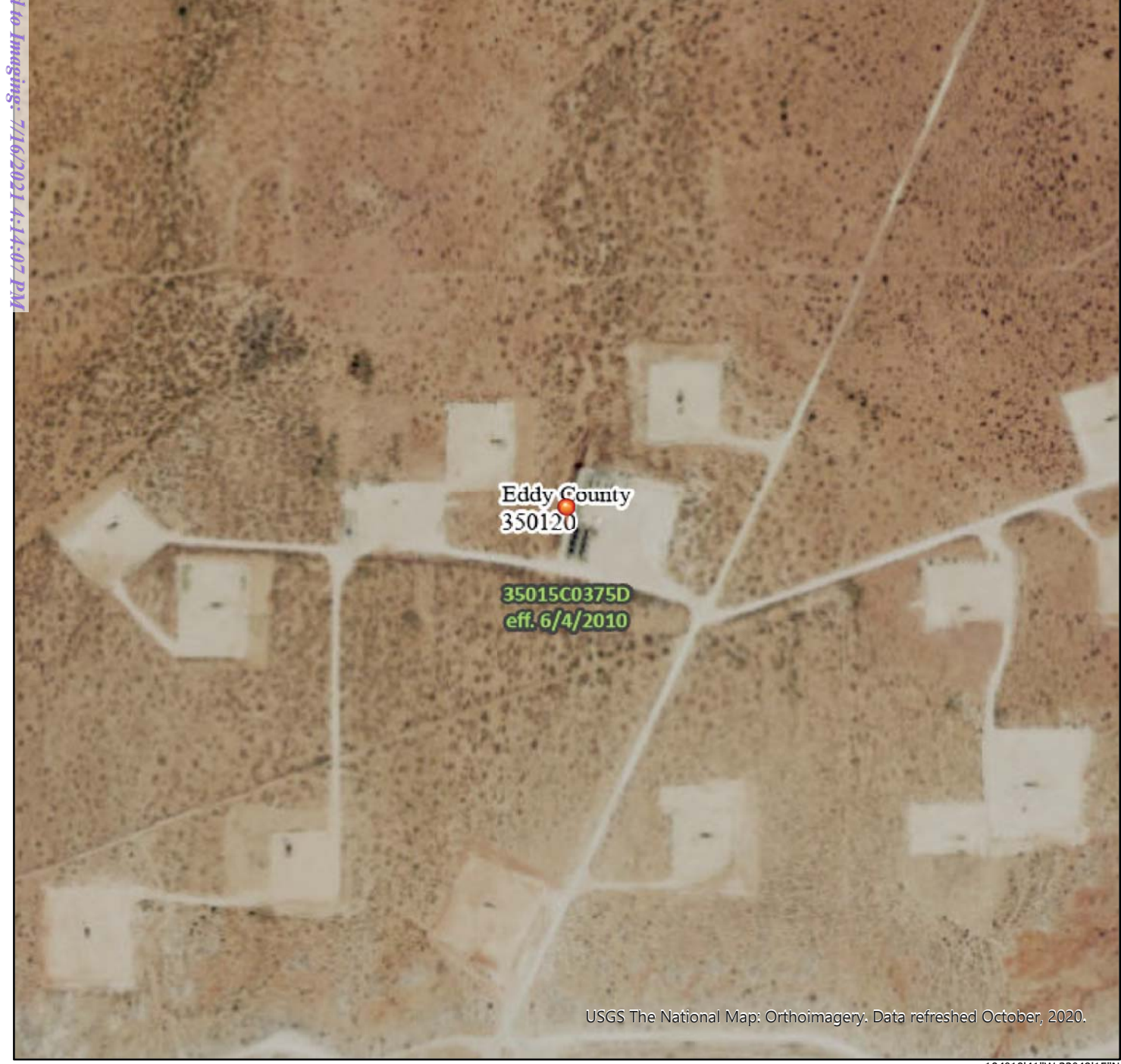
-  Leak Area
-  Low Potential



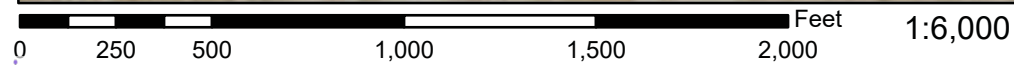
National Flood Hazard Layer FIRMette



104°11'19"W 32°49'45"N



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



104°10'41"W 32°49'15"N

Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/24/2020 at 12:17 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.

Released to Imaging: 7/16/2021 4:14:07 PM

Received by OCD: 3/10/2021 11:26:18 AM

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Laboratory Analytical Results Summary
Oxy, Artesia Yeso CTB (11-16-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/21/20	12/21/20	12/21/20	12/21/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	16.0	16.0	<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'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	12/21/20	12/21/20	12/21/20	12/21/20	12/21/20	12/21/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		11200	12700	1040	1040	144	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		433	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		109	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	12/21/20	12/21/20	12/21/20	12/21/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		57600	1150	144	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	12/21/20	12/21/20	12/21/20	12/21/20	12/21/20	12/21/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		28400	9000	14600	656	400	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		84.4	<10.0	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		27.0	<10.0	<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Artesia Yeso CTB (11-16-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	12/22/20	12/22/20	12/22/20
			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		16.0	32.0	16.0
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	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	12/22/20	12/22/20	12/22/20
			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		<16.0	<16.0	<16.0
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	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	12/22/20	12/22/20	12/22/20	12/22/20	12/22/20
			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		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		12500	5280	2000	208	80.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	12/22/20	12/22/20	12/22/20	12/22/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		59200	928	528	192
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a



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

December 30, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ARTESIA YESO CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/23/20 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 "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

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:	12/23/2020	Sampling Date:	12/21/2020
Reported:	12/30/2020	Sampling Type:	Soil
Project Name:	ARTESIA YESO CTB	Sampling Condition:	Cool & Intact
Project Number:	(11-16-20)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

Sample ID: N @ SURFACE (H003339-01)

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	12/28/2020	ND	2.05	102	2.00	2.61		
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12		
Total BTEX	<0.300	0.300	12/28/2020	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	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.7 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E @ SURFACE (H003339-02)

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	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEx	<0.300	0.300	12/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	16.0	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.5 % 42.2-156

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Analytical Results For:

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W @ SURFACE (H003339-03)

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	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEx	<0.300	0.300	12/28/2020	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	16.0	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 42.2-156

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Analytical Results For:

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S @ SURFACE (H003339-04)

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	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEx	<0.300	0.300	12/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

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Analytical Results For:

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H003339-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTX	<0.300	0.300	12/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	11200	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	433	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	109	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.3 % 42.2-156

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Analytical Results For:

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H003339-06)

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	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEx	<0.300	0.300	12/28/2020	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	12700	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.4 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H003339-07)

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	12/28/2020	ND	2.05	102	2.00	2.61	
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12	
Total BTEx	<0.300	0.300	12/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.9 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H003339-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	12/29/2020	ND	416	104	400	0.00		

Sample ID: SP 1 @ 4' (H003339-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/29/2020	ND	416	104	400	0.00		

Sample ID: SP 1 @ 5' (H003339-10)

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	12/29/2020	ND	416	104	400	0.00		

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Analytical Results For:

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 Hobbs NM, 88241
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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H003339-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	102	2.00	2.61		
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12		
Total BTEx	<0.300	0.300	12/28/2020	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	57600	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.2 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H003339-12)

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	12/28/2020	ND	2.05	102	2.00	2.61		
Toluene*	<0.050	0.050	12/28/2020	ND	1.95	97.4	2.00	1.19		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.03	102	2.00	2.50		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.79	96.5	6.00	2.12		
Total BTEx	<0.300	0.300	12/28/2020	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	1150	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.1 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H003339-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/29/2020	ND	416	104	400	0.00		

Sample ID: SP 2 @ 3' (H003339-14)

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	12/29/2020	ND	416	104	400	0.00	

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H003339-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	28400	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	84.4	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	27.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.0 % 42.2-156

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Analytical Results For:

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H003339-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	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	9000	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.5 % 42.2-156

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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H003339-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 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
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 Fax To: (575) 397-0397

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 3' (H003339-18)

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	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTEX	<0.300	0.300	12/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	12/29/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/21/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 4' (H003339-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/29/2020	ND	416	104	400	0.00	

Sample ID: SP 3 @ 5' (H003339-20)

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	12/29/2020	ND	416	104	400	0.00	

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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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H003339-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	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	16.0	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 1' (H003339-22)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	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	32.0	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.6 % 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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Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H003339-23)

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	12/29/2020	ND	416	104	400	0.00		

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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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H003339-24)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16		
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659		
Total BTX	<0.300	0.300	12/28/2020	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	<16.0	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.9 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1' (H003339-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	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	<16.0	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.8 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 2' (H003339-26)

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	12/29/2020	ND	416	104	400	0.00		

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 Fax To: (575) 397-0397

Received: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H003339-27)

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	12/28/2020	ND	2.05	103	2.00	1.16		
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659		
Total BTEx	<0.300	0.300	12/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	12500	16.0	12/29/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.1 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 1' (H003339-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2020	ND	2.05	103	2.00	1.16	
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07	
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823	
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659	
Total BTX	<0.300	0.300	12/28/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	12/29/2020	ND	400	100	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.8 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 2' (H003339-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	12/29/2020	ND	400	100	400	0.00		

Sample ID: SP 6 @ 3' (H003339-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/29/2020	ND	400	100	400	0.00	

Sample ID: SP 6 @ 4' (H003339-31)

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	12/29/2020	ND	400	100	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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ SURFACE (H003339-32)

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	12/28/2020	ND	2.05	103	2.00	1.16		
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659		
Total BTEx	<0.300	0.300	12/28/2020	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	59200	16.0	12/29/2020	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	12/29/2020	ND	220	110	200	2.71	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	221	110	200	0.209	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1' (H003339-33)

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	12/28/2020	ND	2.05	103	2.00	1.16		
Toluene*	<0.050	0.050	12/28/2020	ND	1.98	99.2	2.00	1.07		
Ethylbenzene*	<0.050	0.050	12/28/2020	ND	2.07	103	2.00	0.823		
Total Xylenes*	<0.150	0.150	12/28/2020	ND	5.92	98.6	6.00	0.659		
Total BTEx	<0.300	0.300	12/28/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	12/29/2020	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	12/29/2020	ND	192	96.0	200	7.51	
DRO >C10-C28*	<10.0	10.0	12/29/2020	ND	213	107	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	12/29/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 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: 12/23/2020
 Reported: 12/30/2020
 Project Name: ARTESIA YESO CTB
 Project Number: (11-16-20)
 Project Location: OXY - LEA CO NM

Sampling Date: 12/22/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 2' (H003339-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/29/2020	ND	400	100	400	0.00	

Sample ID: SP 7 @ 3' (H003339-35)

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	12/29/2020	ND	400	100	400	0.00	

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Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(184)

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: ARTESIA YESO CTB (11-16-20) Project Location: LEA COUNTY, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		CL BTEX TPH EXT											
H002339 1 N @ Surface 2 E @ Surface 3 W @ Surface 4 S @ Surface 5 SP1 @ Surface 6 SP1 @ 1' 7 SP1 @ 2' 8 SP1 @ 3' 9 SP1 @ 4' 10 SP1 @ 5'				G I ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		I ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		I ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		12-21-20 9:26 AM 12-21-20 9:33 AM 12-21-20 9:47 AM 12-21-20 10:02 AM 12-21-20 10:16 AM 12-21-20 10:28 AM 12-21-20 10:42 AM 12-21-20 10:54 AM 12-21-20 11:10 AM 12-21-20 11:17 AM		✓ ✓									

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

Relinquished By: Simon Rendon Date: 12-23-20 Time: 9:00 AM	Received By: Israel Rendon Date: 12-23-20 Time: 4:00 PM	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:
Relinquished By: Israel Rendon Date: 12-23-20 Time: 4:00 PM	Received By: Humara Aldred Date: 12-23-20 Time: 4:00 PM	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) TO-
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 46.7°C #113		

† 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

(3 or 4)

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: ARTESIA YESO CTB (11-16-20) Project Location: LEA COUNTY, NM Sampler Name: Simon Rendon				BILL TO				ANALYSIS REQUEST													
				P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING													
Lab I.D. H003339	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	CL	BTEX	TPH EXT												
21	SP4 @ Surface	G	I		12-22-20	9:20 AM	✓	✓	✓												
22	SP4 @ 1'				12-22-20	9:33 AM	✓	✓	✓												
23	SP4 @ 2'				12-22-20	9:47 AM	✓														
24	SP5 @ Surface				12-22-20	10:12 AM	✓	✓	✓												
25	SP5 @ 1'				12-22-20	10:24 AM	✓	✓	✓												
26	SP5 @ 2'				12-22-20	10:39 PM	✓														
27	SP6 @ Surface				12-22-20	11:03 AM	✓	✓	✓												
28	SP6 @ 1'				12-22-20	11:19 AM	✓	✓	✓												
29	SP6 @ 2'				12-22-20	11:37 AM	✓														
30	SP6 @ 3'	✓	✓	✓	12-22-20	11:49 AM	✓														
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																					
Relinquished By: <i>Simon Rendon</i> Date: 12-23-20 Time: 8:00 AM				Received By: <i>Israel Perea</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:													
Relinquished By: <i>Israel Perea</i> Date: 12-23-20 Time: 4:00 PM				Received By: <i>Simon Rendon</i>																	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>-6.7c #113</i>				Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) <i>T.O.</i>													

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(484)

Page 34 of 34

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:															
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Project Name: ARTESIA YESO CTB (11-16-20)				State: Zip:															
Project Location: LEA COUNTY, NM				Phone #:															
Sampler Name: Simon Rendon				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		CL	BTX	TPH	EXT				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					OTHER :	DATE	TIME	
H003339		G	I																
31	SP6 @ 4'													12-22-20	12:08 PM	✓			
32	SP7 @ Surface													12-22-20	1:07 PM	✓			
33	SP7 @ 1'													12-22-20	1:21 PM	✓			
34	SP7 @ 2'													12-22-20	1:38 PM	✓			
35	SP7 @ 3'													12-22-20	1:54 PM	✓			
36																			
2	12/23/20																		

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Relinquished By:	Date: 12-23-20	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: 12-23-20	Received By:	REMARKS:	
Time: 4:00 PM				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: -6.7c #113	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	T.O.		

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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 21393

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 21393
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	Sidewall samples will not represent an area greater than 200 square feet.	7/16/2021
ceads	Sidewall samples will be collected from all walls of the excavation surrounding the SP6 and SP7 excavation areas	7/16/2021