



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 – Mesa Verde 18 CTB (Leak Date: 2/19/20)

Incident ID: NRM2008458177

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2008458177.

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, and/or copy of Chevron groundwater trend map).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (BLUE shade on diagram) will be excavated to a depth of 3-4 inches.

Oxy requests after the initial surface removal that the leak area be deferred until the end of life of the facility due to the amount of production equipment in the leak area. Pictures of the leak and equipment are included in this report.

The estimated amount of soil to be excavated is 41 cubic yards. Remediation activities will commence within 90 days of all approvals.

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

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	NRM2008458177
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?	33 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2008458177
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: 7-17-20

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

OCD Only

Received by: Cristina Eads Date: 07/29/2020

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NRM2008458177
District RP	
Facility ID	
Application ID	

Remediation Plan

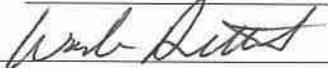
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- 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.

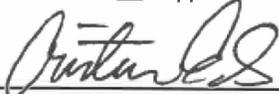
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: 7-17-20
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Cristina Eads Date: 07/29/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

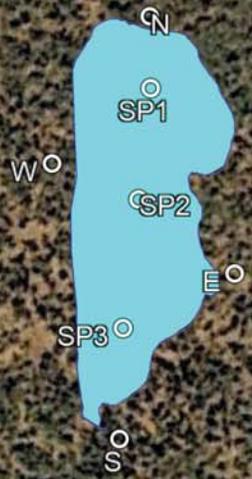
Signature:  Date: 10/22/2020

Oxy Mesa Verde 18 CTB

Leak Date: 2-19-20
Lea County, NM
Incident ID: NRM2008458177

Legend

-  Leak Area
-  Location Pad
-  Near Surface Scope (3-4") then defer
-  Sample Points













Oxy, Mesa Verde 18 CTB (2-19-20)

Sample points

SP1, N 32.21264 W-103.70834

SP2, N 32.21257 W-103.70835

SP3, N 32.21248 W-103.70836

NORTH, N 32.21269 W-103.70384

EAST, N 32.21252 W-103.70827

WEST, N 32.21259 W-103.70841

SOUTH, N 32.21241 W-103.70836



USGS Home
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321312103395601

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321312103395601 24S.32E.10.344333

Lea County, New Mexico
 Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83
 Land-surface elevation 3,589.00 feet above NGVD29
 The depth of the well is 60 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1950-04-13		D	33.64			2			U	
1955-06-03		D	31.90			2	R		U	
1976-01-22		D	31.80			2			U	
1981-03-20		D	19.93			2			U	
1986-03-18		D	37.16			2			U	
1991-05-29		D	39.64			2			U	
1996-03-14		D	38.20			2			S	
2001-02-27		D	36.58			2			S	
2006-02-07	09:30 MST	m	19.40			2			S	USGS
2010-12-16	15:30 MST	m	33.96			2			S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level

Section	Code	Description
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
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. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

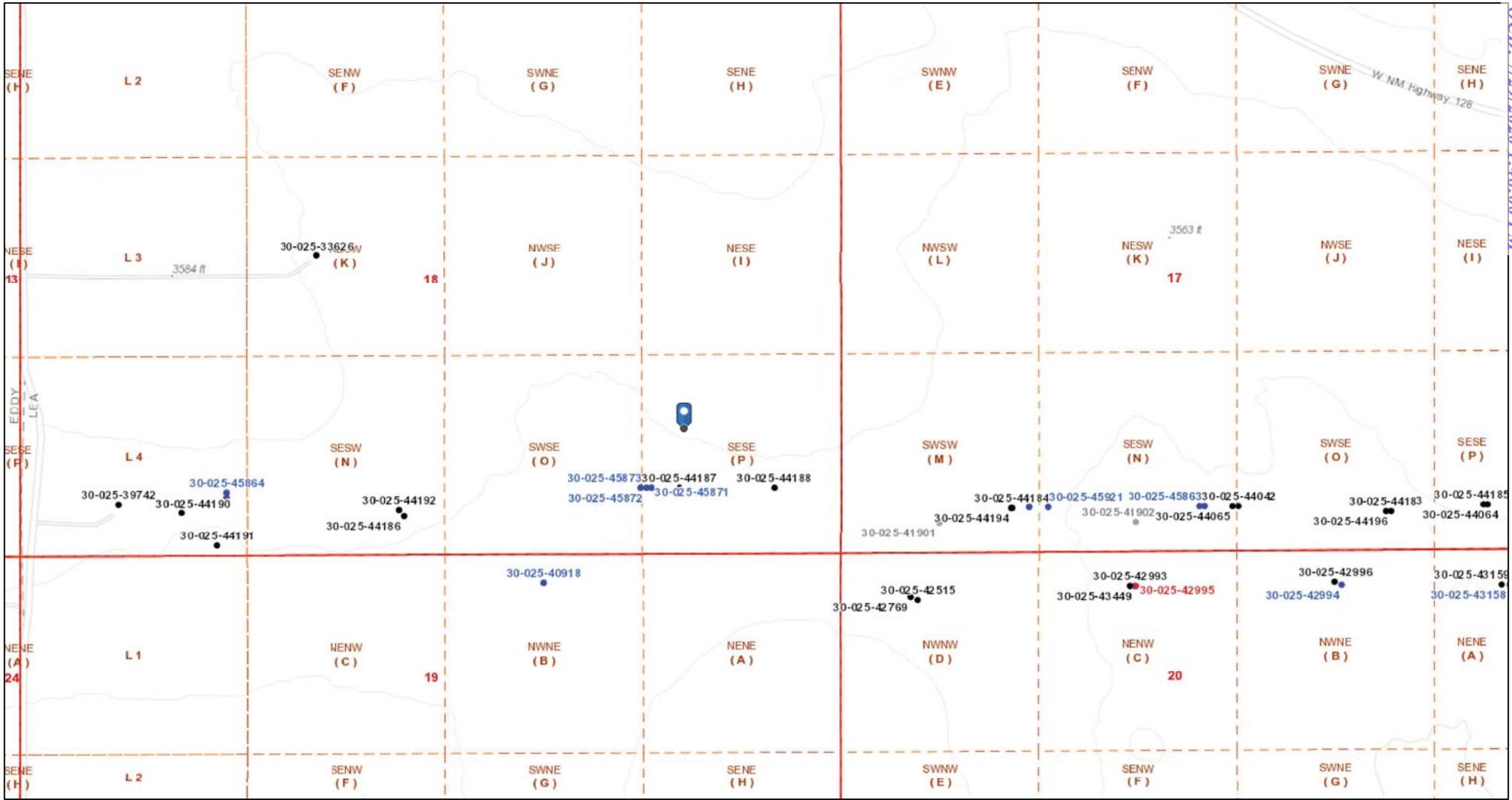


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-01-15 18:36:30 EST

0.25 0.22 nadww01

Oxy, Mesa Verde 18 CTB, +3000' to H2O



1/15/2020 4:08:41 PM

1:9,028

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

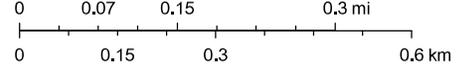
- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2 Plugged
- CO2 Temporarily Abandoned

- Gas Active
- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned

- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

- Salt Water Injection, Plugged
- Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD.

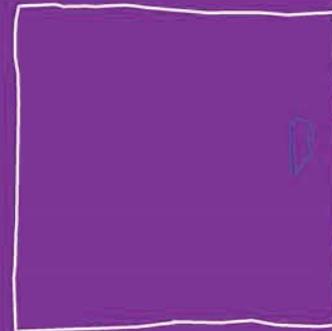
Mesa Verde 18 CTB

Leak Date: 2-19-20
Lea County, NM
Incident ID: NRM2008458177

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Location Pad
-  Low Potential



National Flood Hazard Layer FIRMette



32°13'0.47"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 X</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 Water Surface Elevation |
| | | 17.5 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. |

Received by OCD: 7/29/2020 1:48:00 PM

Page 16 of 40

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

32°12'30.03"N

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/7/2020 at 4:03:04 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.

Laboratory Analytical Results Summary
Oxy, Mesa Verde 18 CTB (2-19-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	3/20/20	3/20/20	3/20/20	3/20/20
			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		32.0	64.0	48.0	64.0
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'
Analyte	Method	Date	3/20/20	3/20/20	3/20/20	3/20/20	3/20/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.345	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.193	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		1.51	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		2.05	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		6320	1960	816	32.0	16.0
GRO	TPH 8015M		22.6	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		1170	49.9	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		278	19.2	<10.0	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/20/20	3/20/20	3/20/20	3/20/20	3/20/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.977	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		16.4	<0.050	0.078	<0.050	n/a
Ethylbenzene	BTEX 8021B		8.63	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		67.5	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		93.5	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1640	704	416	16.0	32.0
GRO	TPH 8015M		1760	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		14600	23.6	18.4	<10.0	n/a
EXT DRO	TPH 8015M		2250	<10.0	<10.0	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	3/20/20	3/20/20	3/20/20	3/20/20	3/20/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.617	0.130	<0.050	<0.050	n/a
Toluene	BTEX 8021B		10.6	4.34	0.055	<0.050	n/a
Ethylbenzene	BTEX 8021B		2.99	2.51	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		26.9	18	0.357	<0.150	n/a
Total BTEX	BTEX 8021B		41.1	25	0.411	<0.300	n/a
Chloride	SM4500Cl-B		96.0	304	160	<16.0	16.0
GRO	TPH 8015M		960	764	<10.0	<10.0	n/a
DRO	TPH 8015M		31600	2980	85.5	<10.0	n/a
EXT DRO	TPH 8015M		6420	482	<10.0	<10.0	n/a



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

March 30, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MESA VERDE 18 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/23/20 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: NORTH @ SURFACE (H000893-01)

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	03/24/2020	ND	2.09	105	2.00	4.12		
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83		
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43		
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68		
Total BTEX	<0.300	0.300	03/24/2020	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	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	208	104	200	0.598		
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	216	108	200	9.66		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 72.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.9 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: EAST @ SURFACE (H000893-02)

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	03/24/2020	ND	2.09	105	2.00	4.12	
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83	
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43	
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68	
Total BTEX	<0.300	0.300	03/24/2020	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	64.0	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	208	104	200	0.598	
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	216	108	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.8 % 42.2-156

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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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: WEST @ SURFACE (H000893-03)

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	03/24/2020	ND	2.09	105	2.00	4.12		
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83		
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43		
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68		
Total BTEX	<0.300	0.300	03/24/2020	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	48.0	16.0	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	208	104	200	0.598		
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	216	108	200	9.66		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.6 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SOUTH @ SURFACE (H000893-04)

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	03/24/2020	ND	2.09	105	2.00	4.12		
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83		
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43		
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68		
Total BTEX	<0.300	0.300	03/24/2020	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	64.0	16.0	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	208	104	200	0.598		
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	216	108	200	9.66		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 78.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.4 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H000893-05)

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	03/24/2020	ND	2.09	105	2.00	4.12		
Toluene*	0.345	0.050	03/24/2020	ND	2.10	105	2.00	4.83		
Ethylbenzene*	0.193	0.050	03/24/2020	ND	2.10	105	2.00	4.43		
Total Xylenes*	1.51	0.150	03/24/2020	ND	6.06	101	6.00	4.68		
Total BTEX	2.05	0.300	03/24/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	6320	16.0	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	22.6	10.0	03/25/2020	ND	208	104	200	0.598		
DRO >C10-C28*	1170	10.0	03/25/2020	ND	216	108	200	9.66		
EXT DRO >C28-C36	278	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 85.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Analytical Results For:

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

Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H000893-06)

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	03/24/2020	ND	2.09	105	2.00	4.12	
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83	
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43	
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68	
Total BTEX	<0.300	0.300	03/24/2020	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	1960	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	208	104	200	0.598	
DRO >C10-C28*	49.9	10.0	03/25/2020	ND	216	108	200	9.66	
EXT DRO >C28-C36	19.2	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

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Analytical Results For:

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

Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 2' (H000893-07)

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	03/24/2020	ND	2.09	105	2.00	4.12		
Toluene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.83		
Ethylbenzene*	<0.050	0.050	03/24/2020	ND	2.10	105	2.00	4.43		
Total Xylenes*	<0.150	0.150	03/24/2020	ND	6.06	101	6.00	4.68		
Total BTEX	<0.300	0.300	03/24/2020	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	816	16.0	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747		
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	176	87.9	200	4.60		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.9 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 3' (H000893-08)

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	03/25/2020	ND	2.06	103	2.00	2.29	
Toluene*	<0.050	0.050	03/25/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	<0.150	0.150	03/25/2020	ND	6.13	102	6.00	3.10	
Total BTEX	<0.300	0.300	03/25/2020	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	32.0	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.9 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ 4' (H000893-09)

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	03/25/2020	ND	432	108	400	0.00	

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Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H000893-10)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.977	0.200	03/26/2020	ND	2.06	103	2.00	2.29	
Toluene*	16.4	0.200	03/26/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	8.63	0.200	03/26/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	67.5	0.600	03/26/2020	ND	6.13	102	6.00	3.10	
Total BTEX	93.5	1.20	03/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 224 % 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	1640	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1760	100	03/26/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	14600	100	03/26/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	2250	100	03/26/2020	ND					

Surrogate: 1-Chlorooctane 225 % 44.3-144

Surrogate: 1-Chlorooctadecane 510 % 42.2-156

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Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H000893-11)

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	03/25/2020	ND	2.06	103	2.00	2.29		
Toluene*	<0.050	0.050	03/25/2020	ND	2.07	104	2.00	2.69		
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11		
Total Xylenes*	<0.150	0.150	03/25/2020	ND	6.13	102	6.00	3.10		
Total BTEX	<0.300	0.300	03/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	704	16.0	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747		
DRO >C10-C28*	23.6	10.0	03/25/2020	ND	176	87.9	200	4.60		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 87.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.1 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H000893-12)

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	03/25/2020	ND	2.06	103	2.00	2.29	
Toluene*	0.078	0.050	03/25/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	<0.150	0.150	03/25/2020	ND	6.13	102	6.00	3.10	
Total BTEX	<0.300	0.300	03/25/2020	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	416	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	18.4	10.0	03/25/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 3' (H000893-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2020	ND	2.06	103	2.00	2.29	
Toluene*	<0.050	0.050	03/25/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	<0.150	0.150	03/25/2020	ND	6.13	102	6.00	3.10	
Total BTEX	<0.300	0.300	03/25/2020	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	16.0	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ 4' (H000893-14)

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	03/25/2020	ND	432	108	400	0.00	

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H000893-15)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.617	0.050	03/26/2020	ND	2.06	103	2.00	2.29	
Toluene*	10.6	0.050	03/26/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	2.99	0.050	03/26/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	26.9	0.150	03/26/2020	ND	6.13	102	6.00	3.10	
Total BTEX	41.1	0.300	03/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 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	96.0	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	960	100	03/26/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	31600	100	03/26/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	6420	100	03/26/2020	ND					

Surrogate: 1-Chlorooctane 210 % 44.3-144

Surrogate: 1-Chlorooctadecane 1250 % 42.2-156

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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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H000893-16)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.130	0.050	03/25/2020	ND	2.06	103	2.00	2.29	
Toluene*	4.34	0.050	03/25/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	2.51	0.050	03/25/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	18.0	0.150	03/25/2020	ND	6.13	102	6.00	3.10	
Total BTEX	25.0	0.300	03/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 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	304	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	764	10.0	03/25/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	2980	10.0	03/25/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	482	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 143 % 44.3-144

Surrogate: 1-Chlorooctadecane 172 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 2' (H000893-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2020	ND	2.06	103	2.00	2.29	
Toluene*	0.055	0.050	03/25/2020	ND	2.07	104	2.00	2.69	
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11	
Total Xylenes*	0.357	0.150	03/25/2020	ND	6.13	102	6.00	3.10	
Total BTEX	0.411	0.300	03/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	160	16.0	03/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747	
DRO >C10-C28*	85.5	10.0	03/25/2020	ND	176	87.9	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 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:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H000893-18)

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	03/25/2020	ND	2.06	103	2.00	2.29		
Toluene*	<0.050	0.050	03/25/2020	ND	2.07	104	2.00	2.69		
Ethylbenzene*	<0.050	0.050	03/25/2020	ND	2.09	105	2.00	3.11		
Total Xylenes*	<0.150	0.150	03/25/2020	ND	6.13	102	6.00	3.10		
Total BTEX	<0.300	0.300	03/25/2020	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	03/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/25/2020	ND	188	94.0	200	0.747		
DRO >C10-C28*	<10.0	10.0	03/25/2020	ND	176	87.9	200	4.60		
EXT DRO >C28-C36	<10.0	10.0	03/25/2020	ND						

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 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
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	03/23/2020	Sampling Date:	03/20/2020
Reported:	03/30/2020	Sampling Type:	Soil
Project Name:	MESA VERDE 18 CTB	Sampling Condition:	Cool & Intact
Project Number:	(2-19-20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 3 @ 4' (H000893-19)

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	03/25/2020	ND	432	108	400	0.00	

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

