



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 – FOXGLOVE 29 6H (Leak Date: 7/14/20)

Incident Reference #: NRM2022460278

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2022460278.

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 entire leak area (yellow shade on diagram) will be excavated to a depth of 1 foot.

OXY will collect sidewall and confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 137 cubic yards. The remediation will be completed within 90 days of approval.

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

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

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2022460278
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?	<u>117</u> (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 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 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

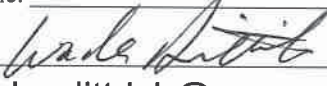
Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2022460278
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: 9.9.2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2022460278
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 I 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: 4-9-2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

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

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

Signature:  Date: 03/24/2021

Oxy Foxglove 29 6H

Leak Date: 7-14-2020
Lea County, NM
Incident ID: NRM2022460278

Legend

- 1' Excavation
- Feature 1
- Leak Area



Oxy, Foxglove 29 6H (7-14-20)

Sample points

SP1, N 32.28201 W 103.59063

SP2, N 32.28213 W 103.59072

SP3, N 32.28224 W 103.59073

SP4, N 32.28236 W 103.59077

SP5, N 32.28219 W 103.59061

SP6, N 32.28215 W 103.59053

NORTH, N 32.28238 W 103.59077

EAST, N 32.28215 W 103.59052

WEST, N 32.28213 W 103.59076

SOUTH, N 32.28197 W 103.59063



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

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321619103315801

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

USGS 321619103315801 23S.33E.26.42424

Lea County, New Mexico
Latitude 32°16'19", Longitude 103°31'58" NAD27
Land-surface elevation 3,635 feet above NAVD88
This well is completed in the Chinle Formation (231CHNL) 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 o measure
1981-03-27		D	136.40				2	S		U
1986-04-16		D	118.69				2			U
1991-05-24		D	117.20				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
Status	S	Nearby site that taps the same aquifer was being pumped.
Method of measurement	U	Unknown method.

Section	Code	Description
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

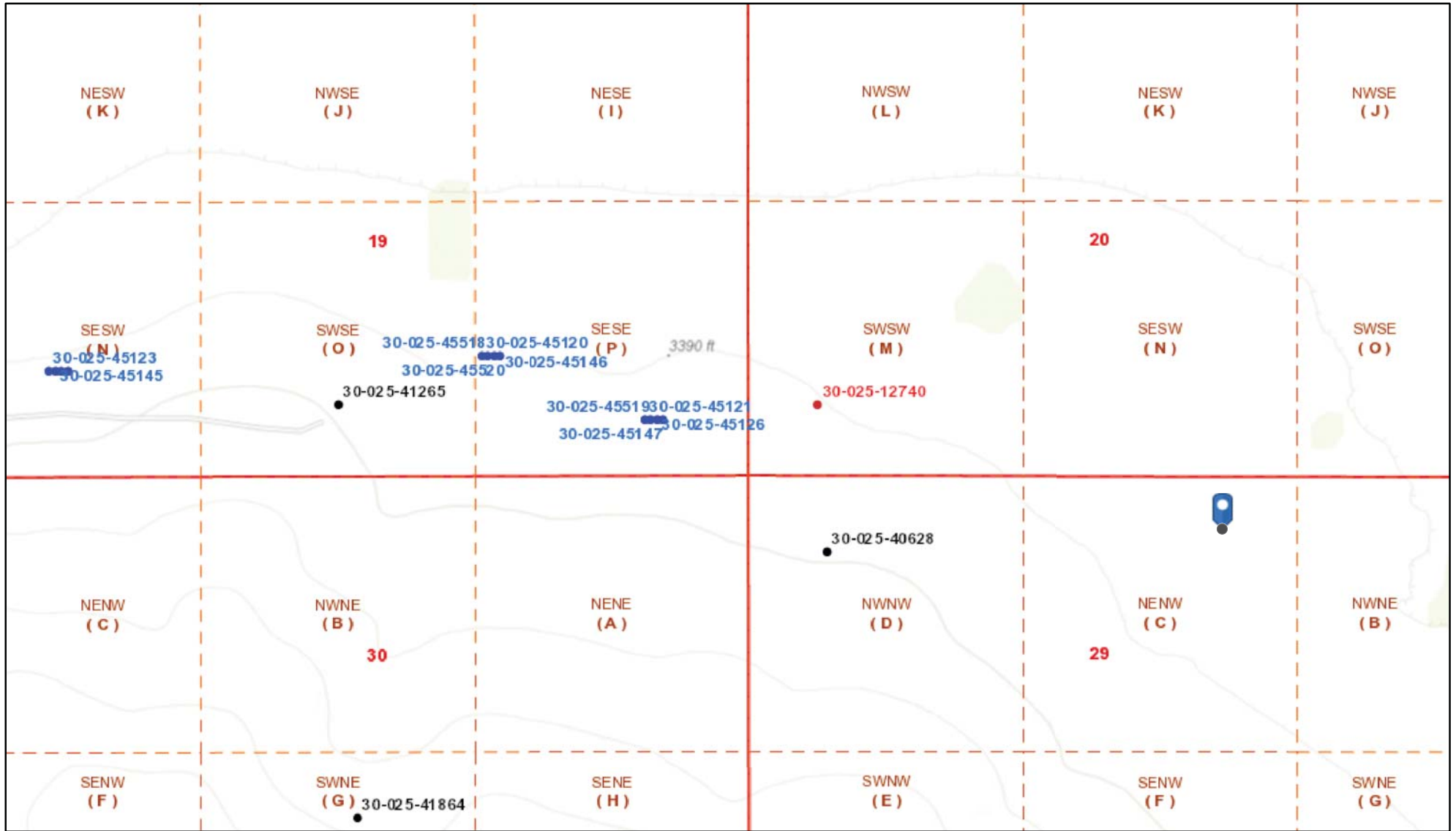


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-08-03 18:17:47 EDT

0.28 0.26 nadww02

Oxy, Foxglove 29 6H CTB (7-14-20) +3,000 ft to h2o



8/3/2020, 3:18:32 PM

Wells - Large Scale


? undefined

- Miscellaneous

☀ CO2, Active

☀ CO2, Cancelled

 CO2, New

 CO2, Plugged

☀ CO2, Temporarily Abandoned

☀ Gas, Active


☀ Gas, Cancelled

☀ Gas, New

☀ Gas, Plugged

☀ Gas, Temporari


 Injection, Active

 Injection, Cancelled

 Injection, New

Gas, Temporarily Abandoned  Injection, Plugged

 Injection, Active

 Injection, Cancelled

 Injection, New

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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

New Mexico Oil Conservation Division



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

Oxy, Foxglove 29 6H CTB

Leak Date: 7-14-2020
Lea County, NM
Incident ID: NRM2022460278

BLM CAVE KARST MAP

Legend

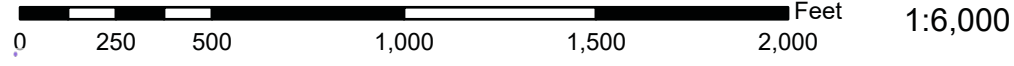
-  Leak Area
-  Low Potential



National Flood Hazard Layer FIRMette



103°35'46"W 32°17'12"N



103°35'8"W 32°16'41"N

USGS The National Map: Orthoimagery. Data refreshed April 2020

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99	
		With BFE or Depth Zone AE, AO, AH, VE, AR	
		Regulatory Floodway	
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X	
		Future Conditions 1% Annual Chance Flood Hazard Zone X	
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X	
		Area with Flood Risk due to Levee Zone X	
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X	
		Effective LOMRs	
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D	
		Channel, Culvert, or Storm Sewer	
		Levee, Dike, or Floodwall	
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation	
OTHER FEATURES		17.5 Coastal Transect	
		Base Flood Elevation Line (BFE)	
		Limit of Study	
		Jurisdiction Boundary	
		Coastal Transect Baseline	
		Profile Baseline	
		Hydrographic Feature	
	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 8/3/2020 at 6:10 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: 3/21/2021 10:15:25 AM

Received by OCD: 2/8/2021 1:53:21 PM

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Laboratory Analytical Results Summary
Oxy, Foxglove 29 6H CTB (7-14-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	9/15/20	9/15/20	9/15/20	9/15/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<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	32.0	96.0	96.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20
			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		3600	48.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		7240	<10.0	n/a
EXT DRO	TPH 8015M		2460	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20
			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		1630	96.0	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		303	<10.0	n/a
EXT DRO	TPH 8015M		125	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20	9/15/20
			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		3840	64.0	80.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		1650	<10.0	n/a	n/a
EXT DRO	TPH 8015M		601	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Oxy, Foxglove 29 6H CTB (7-14-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20
			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		3040	96.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		4350	<10.0	n/a
EXT DRO	TPH 8015M		1320	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20
			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		496	16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		6320	<10.0	n/a
EXT DRO	TPH 8015M		1550	<10.0	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	9/15/20	9/15/20	9/15/20
			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		2320	304	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		297	36.2	n/a
EXT DRO	TPH 8015M		148	24.1	n/a



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

September 23, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FOXGLOVE 29 6H CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/18/20 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/18/2020	Sampling Date:	09/15/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	FOXGLOVE 29 6H CTB	Sampling Condition:	Cool & Intact
Project Number:	(7 - 14 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

Sample ID: N @ SURFACE (H002498-01)

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	09/21/2020	ND	2.16	108	2.00	1.05	
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16	
Total BTEX	<0.300	0.300	09/21/2020	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	09/22/2020	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	09/21/2020	ND	180	89.8	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/21/2020	ND	180	90.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E @ SURFACE (H002498-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2020	ND	2.16	108	2.00	1.05	
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16	
Total BTX	<0.300	0.300	09/21/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2020	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	09/21/2020	ND	180	89.8	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/21/2020	ND	180	90.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W @ SURFACE (H002498-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2020	ND	2.16	108	2.00	1.05	
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16	
Total BTX	<0.300	0.300	09/21/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/22/2020	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	09/21/2020	ND	180	89.8	200	1.24	
DRO >C10-C28*	<10.0	10.0	09/21/2020	ND	180	90.0	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	09/21/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S @ SURFACE (H002498-04)

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	09/21/2020	ND	2.16	108	2.00	1.05		
Toluene*	<0.050	0.050	09/21/2020	ND	2.20	110	2.00	1.07		
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.19	109	2.00	1.10		
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.28	105	6.00	1.16		
Total BTEx	<0.300	0.300	09/21/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/22/2020	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	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/22/2020	ND	190	94.9	200	0.554	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Analytical Results For:

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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H002498-05)

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	09/21/2020	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31		
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33		
Total BTX	<0.300	0.300	09/21/2020	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	3600	16.0	09/22/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	7240	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	2460	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 518 % 42.2-156

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Analytical Results For:

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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H002498-06)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	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	48.0	16.0	09/22/2020	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	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 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:	09/18/2020	Sampling Date:	09/15/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	FOXGLOVE 29 6H CTB	Sampling Condition:	Cool & Intact
Project Number:	(7 - 14 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

Sample ID: SP 1 @ 2' (H002498-07)

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	09/22/2020	ND	400	100	400	0.00	

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 P.O. Box 805
 Hobbs NM, 88241
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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H002498-08)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	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	1630	16.0	09/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	303	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	125	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H002498-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTEX	<0.300	0.300	09/21/2020	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	96.0	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/23/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	09/23/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 42.2-156

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Analytical Results For:

BBC International, Inc.
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 P.O. Box 805
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 Fax To: (575) 397-0397

Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H002498-10)**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	09/22/2020	ND	400	100	400	3.92	

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Analytical Results For:

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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H002498-11)

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	09/21/2020	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31		
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33		
Total BTX	<0.300	0.300	09/21/2020	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	3840	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	1650	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	601	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 186 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H002498-12)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 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:	09/18/2020	Sampling Date:	09/15/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	FOXGLOVE 29 6H CTB	Sampling Condition:	Cool & Intact
Project Number:	(7 - 14 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

Sample ID: SP 3 @ 2' (H002498-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/22/2020	ND	400	100	400	3.92	

Sample ID: SP 3 @ 3' (H002498-14)

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	09/22/2020	ND	400	100	400	3.92	

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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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H002498-15)

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	09/21/2020	ND	2.11	106	2.00	2.30		
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31		
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29		
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33		
Total BTX	<0.300	0.300	09/21/2020	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	3040	16.0	09/22/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	4350	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	1320	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 329 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H002498-16)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 127 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2' (H002498-17)**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	09/22/2020	ND	400	100	400	3.92	

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Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H002498-18)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	496	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	6320	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	1550	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 395 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H002498-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	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	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	<10.0	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	<10.0	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 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:	09/18/2020	Sampling Date:	09/15/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	FOXGLOVE 29 6H CTB	Sampling Condition:	Cool & Intact
Project Number:	(7 - 14 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

Sample ID: SP 5 @ 2' (H002498-20)

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	09/22/2020	ND	400	100	400	3.92	

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H002498-21)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	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	2320	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	297	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	148	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 149 % 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: 09/18/2020
 Reported: 09/23/2020
 Project Name: FOXGLOVE 29 6H CTB
 Project Number: (7 - 14 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 09/15/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H002498-22)

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	09/21/2020	ND	2.11	106	2.00	2.30	
Toluene*	<0.050	0.050	09/21/2020	ND	2.14	107	2.00	2.31	
Ethylbenzene*	<0.050	0.050	09/21/2020	ND	2.11	106	2.00	2.29	
Total Xylenes*	<0.150	0.150	09/21/2020	ND	6.08	101	6.00	2.33	
Total BTX	<0.300	0.300	09/21/2020	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	304	16.0	09/22/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2020	ND	184	92.1	200	2.15	
DRO >C10-C28*	36.2	10.0	09/22/2020	ND	190	94.9	200	0.554	
EXT DRO >C28-C36	24.1	10.0	09/22/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 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:	09/18/2020	Sampling Date:	09/15/2020
Reported:	09/23/2020	Sampling Type:	Soil
Project Name:	FOXGLOVE 29 6H CTB	Sampling Condition:	Cool & Intact
Project Number:	(7 - 14 - 20)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA CO NM		

Sample ID: SP 6 @ 2' (H002498-23)

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	09/22/2020	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

1043

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Cliff Brunson				P.O. #:																										
Address: P.O. Box 805				Company: OXY																										
City: Hobbs State: NM Zip: 88241				Attn: WADE																										
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																										
Project #: Project Owner: Oxy				City:																										
Project Name: FOXGLOVE 29 6H CTB (7-14-20)				State: Zip:																										
Project Location: LEA COUNTY, NM				Phone #:																										
Sampler Name: Simon Rendon				Fax #:																										
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT												
H002498																														
1	N @ Surface	G	1										9/15/20	8:50 AM	✓	✓	✓													
2	E @ Surface												9/15/20	9:01 AM	✓	✓	✓													
3	W @ Surface												9/15/20	9:14 AM	✓	✓	✓													
4	S @ Surface												9/15/20	9:25 AM	✓	✓	✓													
5	SP1 @ Surface												9/15/20	9:42 AM	✓	✓	✓													
6	SP1 @ 1'												9/15/20	9:53 AM	✓	✓	✓													
7	SP1 @ 2'												9/15/20	10:05 AM	✓															
8	SP2 @ Surface												9/15/20	10:37 AM	✓	✓	✓													
9	SP2 @ 1'												9/15/20	10:51 AM	✓	✓	✓													
10	SP2 @ 2'	✓	✓										9/15/20	11:03	✓															

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Relinquished By: <i>Simon Rendon</i>	Date: <i>9-18-20</i>	Received By: <i>Israel Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>7:00 AM</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Israel Pena</i>	Date: <i>9-18-20</i>	Received By: <i>Jodi Benson</i>	REMARKS:	
	Time: <i>4:57 PM</i>			
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other: <i>-4.62 / #113</i>	Sample Condition	CHECKED BY: <i>[Signature]</i>		
	Cool / Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: OXY																			
City: Hobbs State: NM Zip: 88241				Attn: WADE																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																			
Project #: Project Owner: Oxy				City:																			
Project Name: FOXGLOVE 29 6H CTB (7-14-20)				State: Zip:																			
Project Location: LEA COUNTY, NM				Phone #:																			
Sampler Name: Simon Rendon				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH EXT						
H002498																							
11	SP3 @ Surface	G	I										9/15/20	11:12 AM	✓	✓	✓						
12	SP3 @ 1'												9/15/20	11:23 AM	✓	✓	✓						
13	SP3 @ 2'												9/15/20	11:35 AM	✓								
14	SP3 @ 3'												9/15/20	11:48 AM	✓								
15	SP4 @ Surface												9/15/20	12:43 PM	✓	✓	✓						
16	SP4 @ 1'												9/15/20	12:57 PM	✓	✓	✓						
17	SP4 @ 2'												9/15/20	1:09 PM	✓								
18	SP5 @ Surface												9/15/20	1:17 PM	✓	✓	✓						
19	SP5 @ 1'												9/15/20	1:28 PM	✓	✓	✓						
20	SP5 @ 2'												9/15/20	1:39 PM	✓								

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Relinquished By:	Date: 9-18-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Simon Rendon</i>	Time: 7:00 AM	<i>Israel Pena</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 9-18-20	Received By:	REMARKS:	
<i>Israel Pena</i>	Time: 10:45 AM	<i>Jodi Benson</i>		
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: 4.60 / # 113		Cool Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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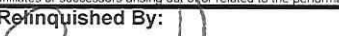




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30f3

[illegible]

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Relinquished By: 		Date: 9-18-20 Time: 7:00 AM	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: 		Date: 9-18-20 Time: 7:00 AM	Received By: 	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -4.6°C / #113		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS:	

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District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 17422

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	17422	Action Type:	C-141
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OCD Reviewer	Condition
chensley	When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.