



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/REMEDATION WORKPLAN

OXY – HARROUN 15 CTB (Leak Date: 6/18/19)

Incident Reference #: NAB1919235168

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NAB1919235168.

The following information includes:

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

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

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

The leak area near SP1 (WHITE shade on diagram) will be excavated to a depth of 6 feet. The leak area near SP2 (YELLOW shade on diagram) will be excavated to a depth of 5 feet.

OXY will collect sidewall and bottom confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 12 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

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAB1919235168
District RP	2RP-5528
Facility ID	iAB191234894
Application ID	pAB191234974

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?	52 (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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input checked="" type="checkbox"/> Yes <input 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	NAB1919235168
District RP	2RP-5528
Facility ID	fAB191234894
Application ID	pAB191234974

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 DittrichTitle: Environmental CoordinatorSignature: Date: 10-26-21email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NAB1919235168
District RP	2RP-5528
Facility ID	fAB191234894
Application ID	pAB191234974

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: 10-26-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD OnlyReceived by: Chad Hensley Date: 02/23/2022☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: 02/23/2022

OXY, HARROUN 15 CTB

LEAK DATE 6-18-19
ID#: nAB1919235168
EDDY CO, NM

Legend

- 5FT
- 6FT



HARROUN 15 CTB SAMPLE POINT NOTES

SP- NORTH	N32.217162	W103.980613
SP- EAST	N32.217138	W103.980600
SP - SOUTH	N32.217119	W103.980617
SP- WEST	N32.217140	W103.980632
SP -1	N32.217128	W103.980616
SP - 2	N32.217152	W103.980613



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321355104012001

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

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico
Latitude 32°13'55", Longitude 104°01'20" NAD27
Land-surface elevation 2,983 feet above NAVD88
The depth of the well is 160 feet below land surface.
This well is completed in the Castile Formation (312CSTL) 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
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

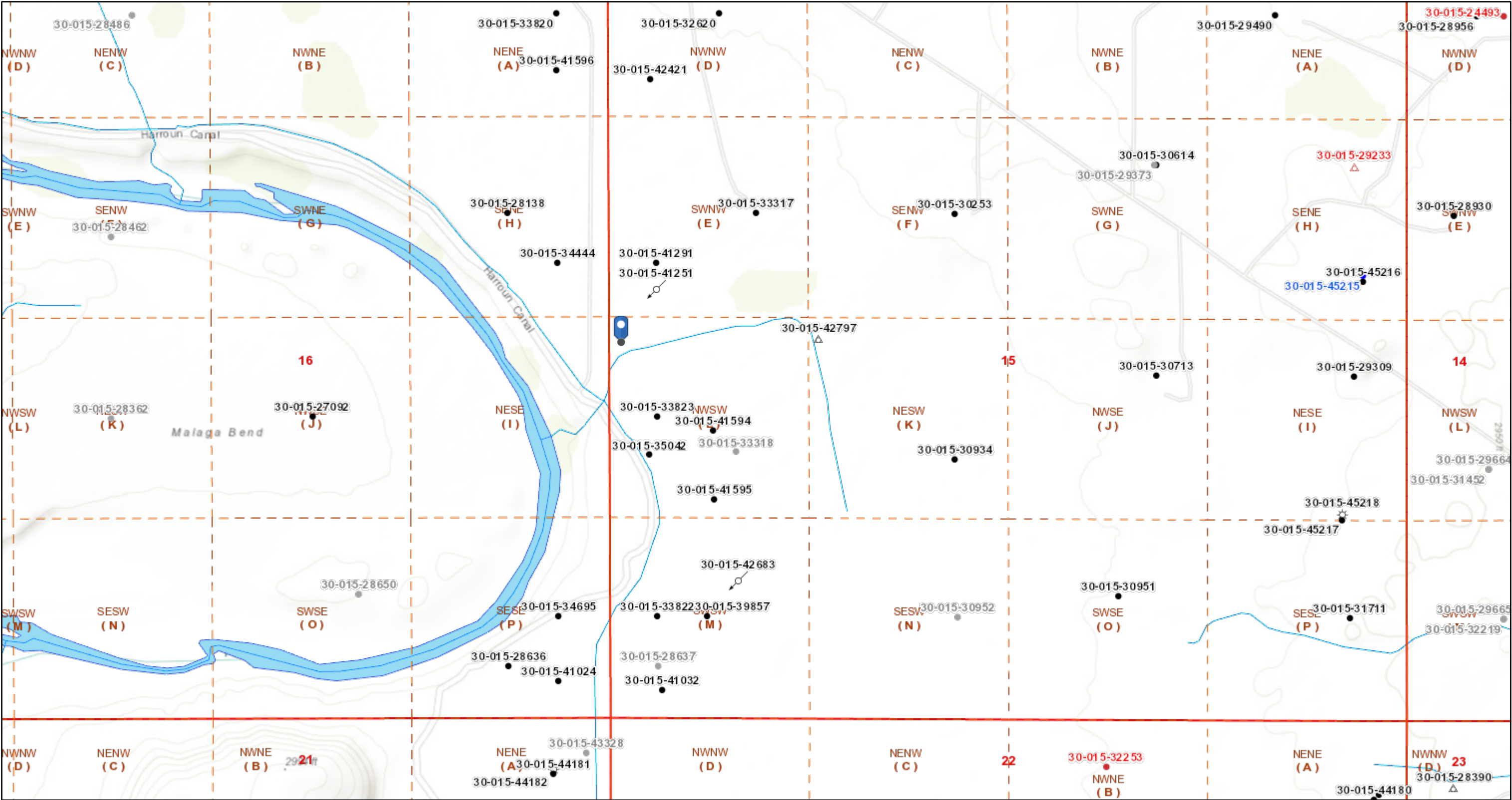
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

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

Page Last Modified: 2019-07-22 13:38:36 EDT

0.45 0.42 nadww02

Oxy, Harroun 15 CTB



7/22/2019 11:11:47 AM

- Well Locations - Small Scale
- Active
 - New
 - Plugged
 - Cancelled
 - Temporarily Abandoned

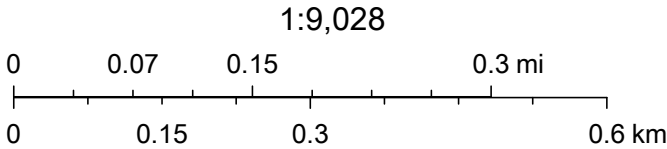
- Well Locations - Large Scale
- Miscellaneous
 - CO2 Active
 - CO2 Cancelled
 - CO2 New
 - CO2, Plugged
 - CO2, Temporarily Abandoned

- 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, Active
- Oil, Cancelled

- 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





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM

Oxy, Harroun 15 CTB

Leak date: 6/18/19
Eddy County, NM
2RP-5528

BLM CAVE KARST MAP

Legend

-  LEAK AREA
-  Medium potential

Google Earth

© 2018 Google

Released to Imaging: 2/23/2022 8:50:09 AM



1000 ft

National Flood Hazard Layer FIRMette



32°13'16.89"N



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

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

1:6,000

32°12'46.45"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile 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 D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		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
		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 7/22/2019 at 1:45:50 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, Harroun 15-15 CTB(6-18-19)

		Sample ID	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	6/21/21	6/22/21	6/23/21	6/21/21
			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	16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP 1 @ SURFACE	SP 1 @ 1'	SP 1 @ 2'	SP 1 @ 3'	SP 1 @ 4'	SP 1 @ 5'	SP 1 @ 6'	SP 1 @ 7'	SP 1 @ 8'
Analyte	Method	Date	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		16.0	1170	128	32.0	7600	896	480	336	224
GRO	TPH 8015M		<10.0	<10.0	<10.0	<50.0	<50.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	<10.0	10400	3080	29.2	N/A	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	1920	742	<10.0	N/A	N/A	N/A

		Sample ID	SP 2 @ SURFACE	SP 2 @ 1'	SP 2 @ 2'	SP 2 @ 3'	SP 2 @ 4'	SP 2 @ 5'	SP 2 @ 6'	SP 2 @ 7'
Analyte	Method	Date	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21	6/21/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		752	160	32.0	8320	880	256	224	80.0
GRO	TPH 8015M		<10.0	<10.0	<50.0	<50.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	10100	3300	12.1	N/A	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	1990	821	<10.0	N/A	N/A	N/A



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

June 28, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARROUN 15 - 15 CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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:	06/22/2021	Sampling Date:	06/21/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	HARROUN 15 - 15 CTB	Sampling Condition:	Cool & Intact
Project Number:	(6-18-19)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA		

Sample ID: SP N @ SURFACE (H211623-01)

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	06/24/2021	ND	1.96	98.0	2.00	4.10	
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23	
Total BTEX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	193	96.3	200	6.51	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	5.76	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.3 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP E @ SURFACE (H211623-02)

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	06/24/2021	ND	1.96	98.0	2.00	4.10	
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23	
Total BTX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	193	96.3	200	6.51	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	5.76	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP W @ SURFACE (H211623-03)

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	06/24/2021	ND	1.96	98.0	2.00	4.10		
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	193	96.3	200	6.51	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	5.76	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP S @ SURFACE (H211623-04)

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	06/24/2021	ND	1.96	98.0	2.00	4.10		
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	193	96.3	200	6.51	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	5.76	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 38.9-142

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Analytical Results For:

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

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H211623-05)

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	06/24/2021	ND	1.96	98.0	2.00	4.10		
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	193	96.3	200	6.51	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	5.76	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.6 % 38.9-142

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Analytical Results For:

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Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H211623-06)

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	06/24/2021	ND	1.96	98.0	2.00	4.10		
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H211623-07)

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	06/24/2021	ND	1.96	98.0	2.00	4.10	
Toluene*	<0.050	0.050	06/24/2021	ND	1.99	99.4	2.00	5.59	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.94	97.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.84	97.4	6.00	4.23	
Total BTX	<0.300	0.300	06/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 38.9-142

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Analytical Results For:

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

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H211623-08)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	QR-03	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	10400	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	1920	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 613 % 38.9-142

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Analytical Results For:

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

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 4' (H211623-09)

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	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	3080	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	742	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 209 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 5' (H211623-10)

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	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/24/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	29.2	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.3 % 38.9-142

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Analytical Results For:

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Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 6' (H211623-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/24/2021	ND	416	104	400	0.00		

Sample ID: SP 1 @ 7' (H211623-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/24/2021	ND	416	104	400	0.00		

Sample ID: SP 1 @ 8' (H211623-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/24/2021	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H211623-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.7 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H211623-15)

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	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.6 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H211623-16)

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	06/25/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/25/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

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	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	10100	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	1990	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 486 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3' (H211623-17)

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	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTEx	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8320	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	3300	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	821	50.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 212 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 4' (H211623-18)

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	06/24/2021	ND	1.98	99.1	2.00	5.73		
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95		
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69		
Total BTX	<0.300	0.300	06/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	06/24/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	12.1	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 61.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.2 % 38.9-142

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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: 06/22/2021
 Reported: 06/28/2021
 Project Name: HARROUN 15 - 15 CTB
 Project Number: (6-18-19)
 Project Location: OXY - MALAGA

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 5' (H211623-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/24/2021	ND	416	104	400	0.00		

Sample ID: SP 2 @ 6' (H211623-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/24/2021	ND	416	104	400	0.00	

Sample ID: SP 2 @ 7' (H211623-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/24/2021	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company: OXY					
Address: P.O. Box 805		State: NM Zip: 88241		Attn: WADE			
City: Hobbs		Fax #: 575-397-0397		Address:			
Phone #: 575-397-6388		Project Owner: Oxy		City:			
Project #:		State: Zip:		Phone #:			
Project Name: HARROUN 15-15 CTB (6-1849)		Fax #:					
Project Location:							
Sampler Name: SIMON RENDON							
FOR LAB USE ONLY							
Lab I.D.		Sample I.D.					
H211623		SP N @ SURFACE		6-21-21 9:35		✓	
1-2333		SP E @ SURFACE		6-21-21 9:47		✓	
3		SP W @ SURFACE		6-21-21 10:07		✓	
4		SP S @ SURFACE		6-21-21 10:17		✓	
5		SP 1 @ SURFACE		6-21-21 11:05		✓	
6		SP 1 @ 1'		6-21-21 11:14		✓	
7		SP 1 @ 2'		6-21-21 11:27		✓	
8		SP 1 @ 3'		6-21-21 11:38		✓	
9		SP 1 @ 4'		6-21-21 11:52		✓	
10		SP 1 @ 5'		6-21-21 12:04		✓	
		(G)RAB OR (C)OMP.					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE		TIME		CL	
		BTX					
		TPH EXT					

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Relinquished By: *Simon Rendón* Date: *6-22-21* Time: *10:00* Received By: *Patricia Cardenas*

Delivered By: (Circle One) *-1.1c #113* Sample Condition: ☒ Cool ☒ Intact ☒ Yes ☒ No CHECKED BY: *VC*

Sampler - UPS - Bus - Other: *-1.1c #113*

REMARKS: Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:

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



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

P.O. #:

Company: OXY

Attn: WADE

FOR LAB USE ONLY

Sample Name: SIMON RENDON

Project Location:

Project Name: HARROUN 15-15 CTB (6-1819)

Project #:

Project Owner: Oxy

City:

State: NM

Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Address: P.O. Box 805

Project Manager: Cliff Brunson

Company Name: BBC International, Inc.

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

BTX

TPH EXT

CL

BTX

TPH EXT

CL

BTX

TPH EXT

CL

BTX

TPH EXT

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TPH EXT

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Relinquished By:

Date: 6-22-21

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-1.1c #113

Sample Condition

Cool

Intact

Yes

No

Checked By:

(Initials)

VQ

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: Project Name: HARROUN 15-15 CTB (6-1849) Project Location:		P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:	
Sampler Name: SIMON RENDON FOR LAB USE ONLY		BILL TO	
Lab I.D. H211623 21		ANALYSIS REQUEST	
Sample I.D. SP2 @ 7'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
DATE 6-21-21 TIME 2:43		CL BTX TPH EXT	
Relinquished By: [Signature] Date: 6-22-21 Time: 1600 Received By: [Signature] Date: 6-22-21 Time: 1600		CHECKED BY: [Signature] (Initials)	
Delivered By: (Circle One) UPS - Bus - Other: -1.1c #113		Sample Condition Cool Intact Yes Yes No No	
Relinquished By: [Signature]		REMARKS:	

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

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 79326

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 79326
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD approves the remediation plan with conditions.	2/23/2022
chensley	DTW is labeled at 52 ft bgs. Please use table one 50 ft or less for closure criteria.	2/23/2022
chensley	The BLM treats "medium karst" and "high karst" the same. Closure criteria falls to table one 50 ft or less.	2/23/2022
chensley	NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.	2/23/2022