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DELINEATION/REMEDIATION WORKPLAN

OXY – HEIGHT CC 6-7 FED COM 31H (Leak Date: 6/19/19)

RP # 2RP-5524

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5524.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 and SP6 – SP7 (BLUE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP4 and SP5 (PURPLE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP8 (ORANGE shade on diagram) will be excavated to a depth of 5 feet.

Bottom confirmation samples will be collected every 75 feet.

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.

S6HI5-191121-C-1410

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	
District RP	2RP-5524
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?	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 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	2RP-5524
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Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 11-20-19
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	2RP-5524
Facility ID	
Application ID	

Remediation Plan

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

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 11-20-19
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

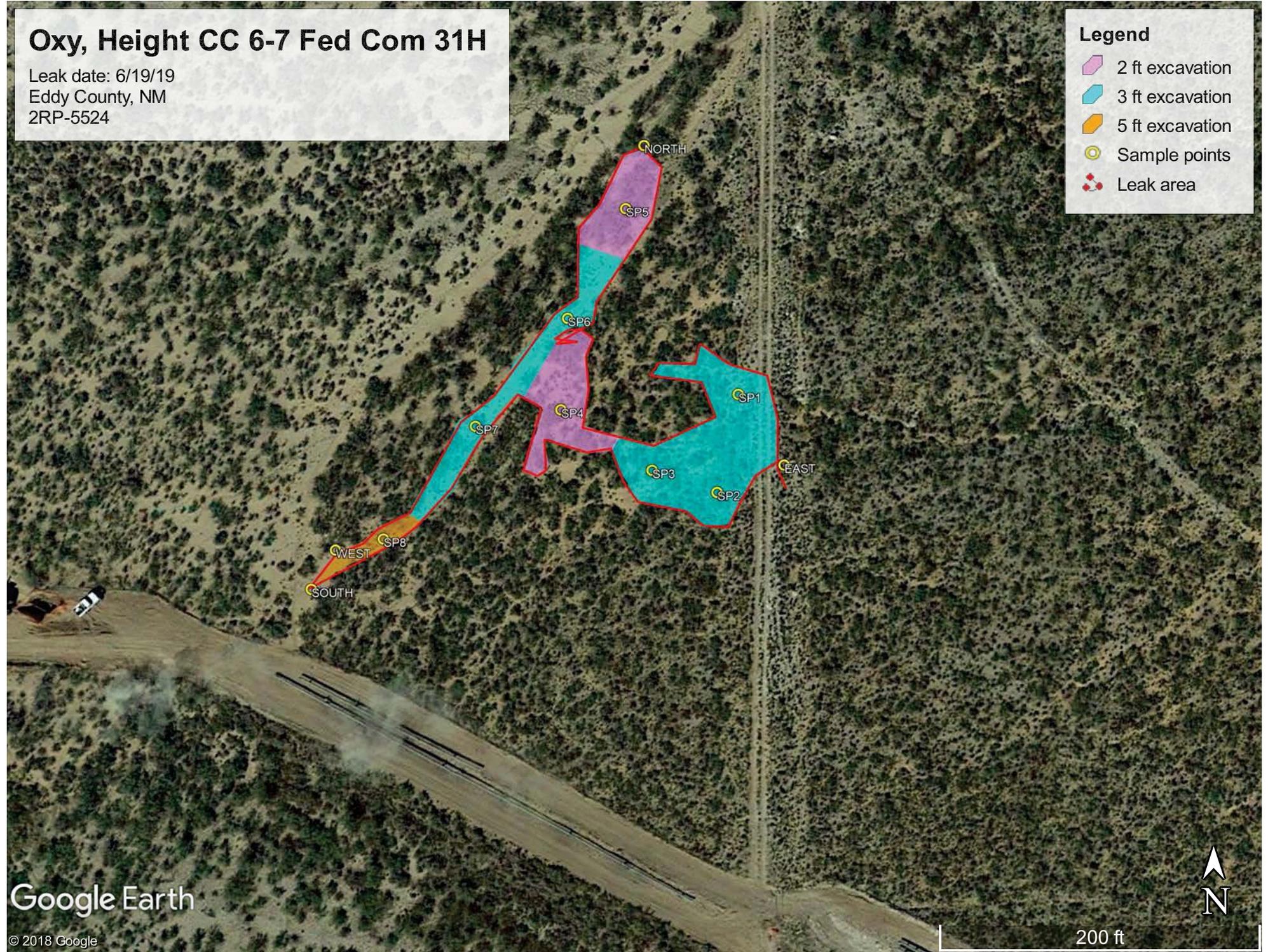
Signature: _____ Date: _____

Oxy, Height CC 6-7 Fed Com 31H

Leak date: 6/19/19
Eddy County, NM
2RP-5524

Legend

-  2 ft excavation
-  3 ft excavation
-  5 ft excavation
-  Sample points
-  Leak area



Google Earth

© 2018 Google

200 ft



Oxy, Height CC 6-7 Fed Com 31H

Sample points

SP1, N 32.24353 W-104.01334

SP2, N 32.24336 W-104.01338

SP3, N 32.24340 W-104.01352

SP4, N 32.24350 W-104.01370

SP5, N 32.24385 W-104.01357

SP6, N 32.24366 W-104.01369

SP7, N 32.24347 W-104.01388

SP8, N 32.24328 W-104.01406

NORTH, N 32.24396 W-104.01353

SOUTH, N 32.24319 W-104.01421

EAST, N 32.24341 W-104.01325

WEST, N 32.24326 W-104.01416

**Oxy, Height CC 6-7 Fed Com 31H
U/L L, Section 5, T24S, R29E
Groundwater: 50'-75'**





USGS Home
 Contact USGS
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 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?>

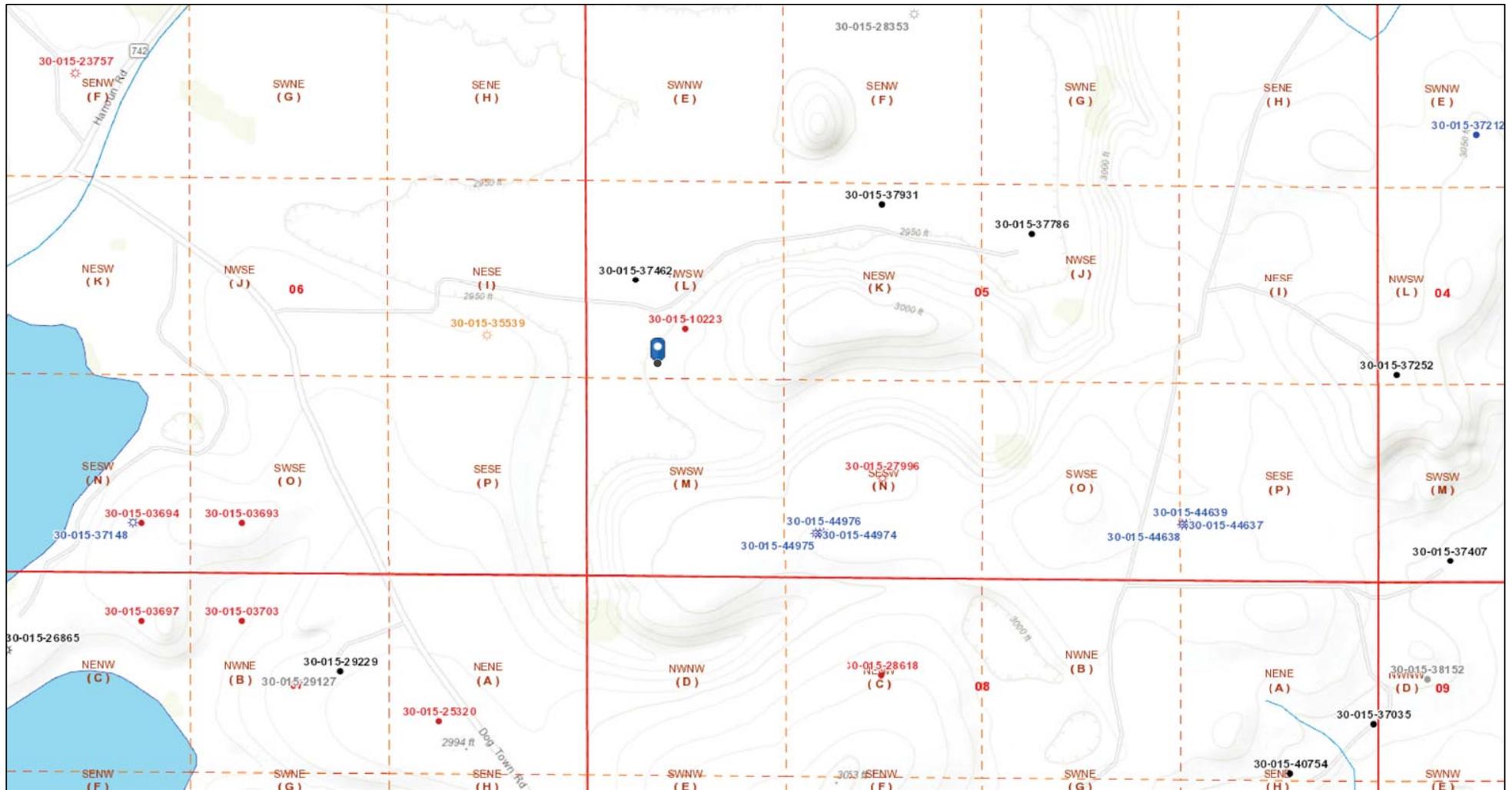
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-09-25 12:31:42 EDT

0.53 0.5 nadww02

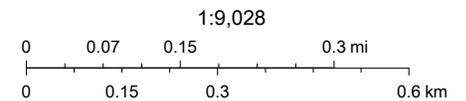


Oxy, Height CC 6-7 Fed Com 31H



9/25/2019 10:26:03 AM

- | | | | | | |
|------------------------------|------------------------------|---------------------------------|------------------------------------|-----------------------------------|--|
| Well Locations - Small Scale | Well Locations - Large Scale | ☆ Gas Active | ⚡ Injection, Cancelled | ● Oil, New | △ Salt Water Injection, Plugged |
| ● Active | ⊙ Miscellaneous | ☆ Gas, Cancelled, Never Drilled | ⚡ Injection, New | ● Oil, Plugged | △ Salt Water Injection Temporarily Abandoned |
| ● New | ⊙ CO2 Active | ☆ Gas, New | ⚡ Injection, Plugged | ● Oil, Temporarily Abandoned | ⚡ Water, Active |
| ● Plugged | ⊙ CO2 Cancelled | ☆ Gas, Plugged | ⚡ Injection, Temporarily Abandoned | △ Salt Water Injection, Active | ⚡ Water, Cancelled |
| ● Cancelled | ⊙ CO2 New | ☆ Gas, Temporarily Abandoned | ● Oil, Active | △ Salt Water Injection, Cancelled | ⚡ Water, New |
| ● Temporarily Abandoned | ☆ CO2, Plugged | ⚡ Injection, Active | ● Oil, Cancelled | △ Salt Water Injection, New | ⚡ Water, Plugged |
| | ☆ CO2, Temporarily Abandoned | | | | |



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

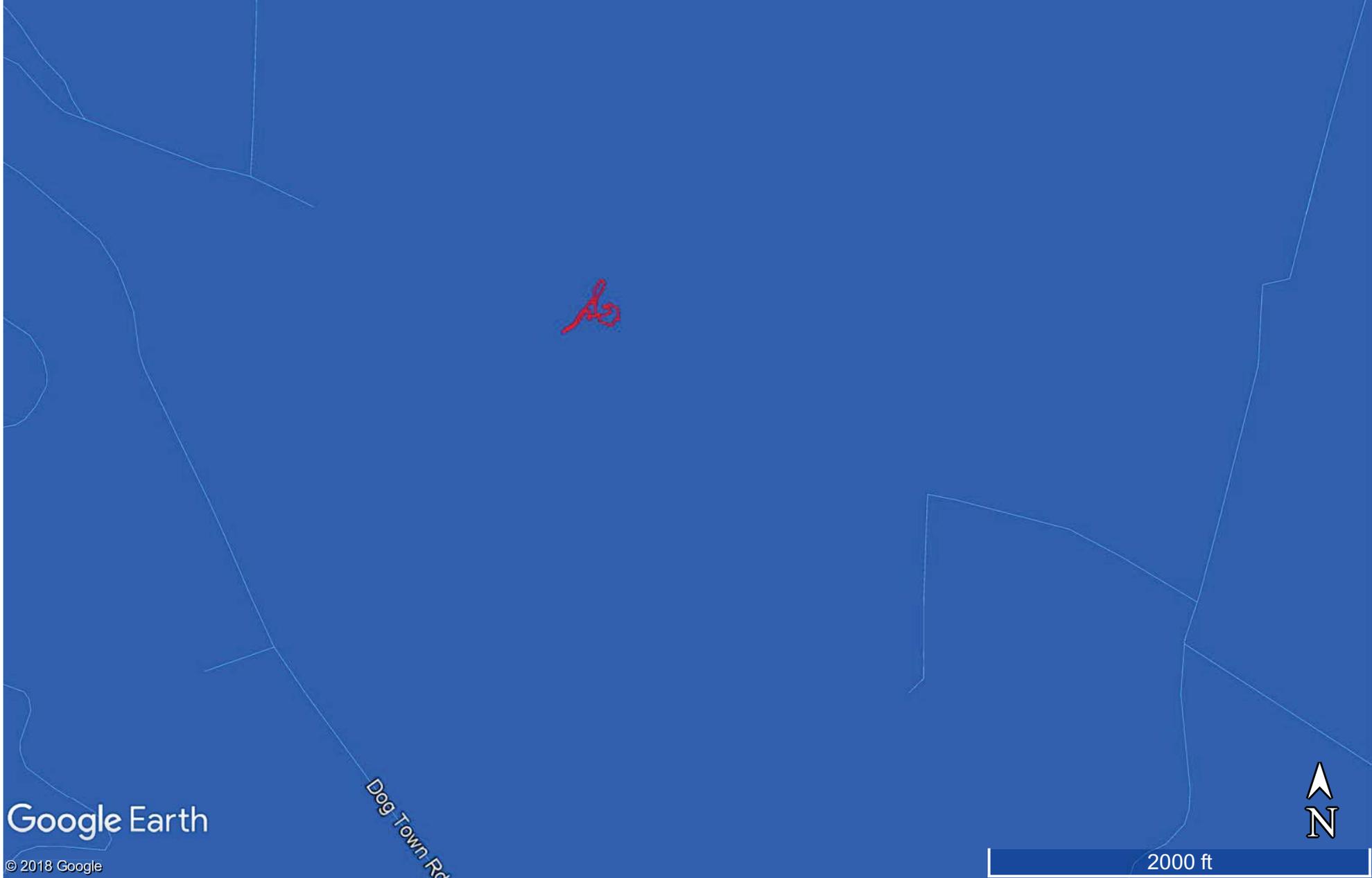
Oxy, Height CC 6-7 Fed Com 31H

Leak date: 6/19/19
Eddy County, NM
2RP-5524

BLM CAVE KARST

Legend

-  Leak area
-  Medium potential

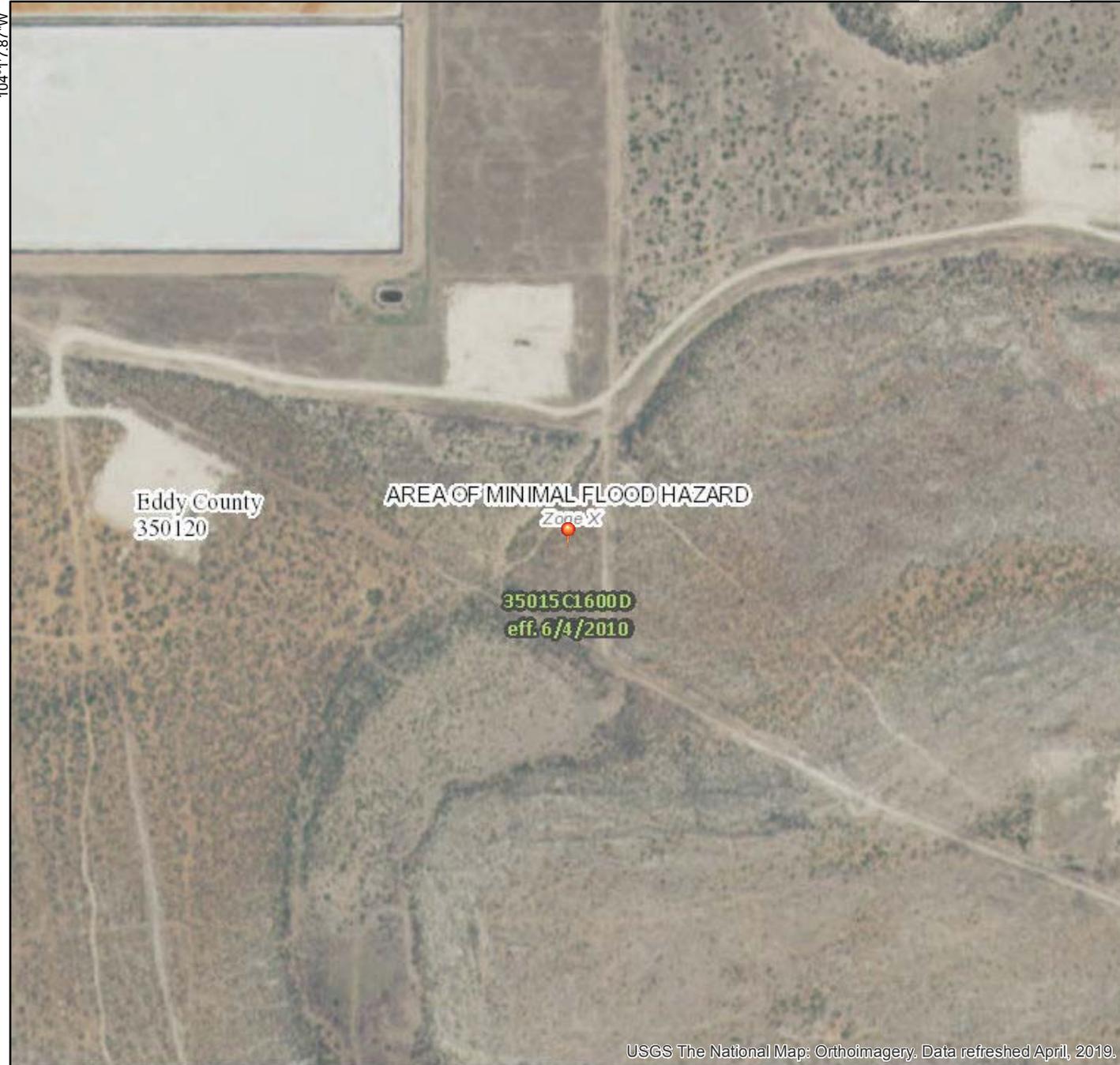


National Flood Hazard Layer FIRMette



32°14'51.78"N

104°17.87"W



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		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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/25/2019 at 12:48:24 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.

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



Laboratory Analytical Results Summary
Height CC 6-7 Fed Com 31H (6/19/19)

Analyte	Method	Sample ID	NORTH @	EAST @	WEST @	SOUTH @
			SURFACE	SURFACE	SURFACE	SURFACE
		Date	10/22/19	10/22/19	10/22/19	10/22/19
			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	SM4500CI-B		16	<16.0	<16.0	32
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

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
			SURFACE				
		Date	10/22/19	10/22/19	10/22/19	10/22/19	10/23/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		4720	3880	2480	640	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			SURFACE					
		Date	10/22/19	10/22/19	10/22/19	10/22/19	10/30/19	10/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4960	1260	1970	688	<16.0	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
			SURFACE					
		Date	10/23/19	10/23/19	10/23/19	10/23/19	10/30/19	10/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4960	720	1920	720	16	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Height CC 6-7 Fed Com 31H (6/19/19)

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'
			SURFACE	10/23/19	10/23/19
			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	SM4500CI-B		32	1070	112
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
			SURFACE	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		6160	1800	512	592	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP6 @	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
			SURFACE	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		6320	1090	560	608	32	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP7 @	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'
			SURFACE	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5200	1170	1310	1340	16	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
 Height CC 6-7 Fed Com 31H (6/19/19)

Analyte	Method	Sample ID	SP8 @	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'	SP8 @ 6'
			SURFACE	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19	10/30/19
		Date	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		4480	1340	1360	1260	1070	16	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a



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

November 05, 2019

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

RE: HEIGHT CC 6-7 FED COM 31H

Enclosed are the results of analyses for samples received by the laboratory on 10/30/19 17:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: NORTH @ SURFACE (H903712-01)

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	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	228	114	200	7.39		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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* = Accredited Analyte

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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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: EAST @ SURFACE (H903712-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	228	114	200	7.39		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.4 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WEST @ SURFACE (H903712-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	228	114	200	7.39		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SOUTH @ SURFACE (H903712-04)

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	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	228	114	200	7.39		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	8.27		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 1 @ SURFACE (H903712-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H903712-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 1 @ 2' (H903712-07)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	11/04/2019	ND	432	108	400	0.00		

Sample ID: SP 1 @ 3' (H903712-08)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	11/04/2019	ND	432	108	400	0.00		

Sample ID: SP 1 @ 4' (H903712-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/04/2019	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ SURFACE (H903712-10)

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	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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* = 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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ 1' (H903712-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	11/04/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/22/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ 2' (H903712-12)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1970	16.0	11/04/2019	ND	400	100	400	7.69	

Sample ID: SP 2 @ 3' (H903712-13)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/04/2019	ND	400	100	400	7.69	

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 3 @ SURFACE (H903712-14)

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	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	11/04/2019	ND	400	100	400	7.69		

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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 3 @ 1' (H903712-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	11/04/2019	ND	400	100	400	7.69		

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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 3 @ 2' (H903712-16)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	11/04/2019	ND	400	100	400	7.69	

Sample ID: SP 3 @ 3' (H903712-17)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/04/2019	ND	400	100	400	7.69	

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 4 @ SURFACE (H903712-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/04/2019	ND	400	100	400	7.69		

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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 4 @ 1' (H903712-19)

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	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/04/2019	ND	400	100	400	7.69		

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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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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:	10/30/2019	Sampling Date:	10/23/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	6-19-19	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 4 @ 2' (H903712-20)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/04/2019	ND	400	100	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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 that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

November 05, 2019

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

RE: HEIGHT CC 6-7 FED COM 31H

Enclosed are the results of analyses for samples received by the laboratory on 10/31/19 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ 4' (H903727-01)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 2 @ 5' (H903727-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 3 @ 4' (H903727-03)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 3 @ 5' (H903727-04)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	416	104	400	0.00		

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

Analytical Results For:

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

Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ SURFACE (H903727-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	11/04/2019	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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 83.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

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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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ 1' (H903727-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	11/04/2019	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	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.5 % 37.6-147

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Analytical Results For:

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

Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ 2' (H903727-07)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 5 @ 3' (H903727-08)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 5 @ 4' (H903727-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 5 @ 5' (H903727-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	416	104	400	0.00		

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Analytical Results For:

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Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 6 @ SURFACE (H903727-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	11/04/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 6 @ 1' (H903727-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.91	95.7	2.00	0.880		
Toluene*	<0.050	0.050	11/04/2019	ND	1.92	95.9	2.00	0.915		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.95	97.7	2.00	0.787		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.83	97.2	6.00	0.829		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	11/04/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 6 @ 2' (H903727-13)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 6 @ 3' (H903727-14)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	11/04/2019	ND	416	104	400	0.00		

Sample ID: SP 6 @ 4' (H903727-15)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 6 @ 5' (H903727-16)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 7 @ SURFACE (H903727-17)

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	11/04/2019	ND	1.94	97.2	2.00	4.64		
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	11/04/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 7 @ 1' (H903727-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64		
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	11/04/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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Analytical Results For:

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

Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 7 @ 2' (H903727-19)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 7 @ 3' (H903727-20)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 7 @ 4' (H903727-21)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 7 @ 5' (H903727-22)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	400	100	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 8 @ SURFACE (H903727-23)

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	11/04/2019	ND	1.94	97.2	2.00	4.64		
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15		
Total BTEX	<0.300	0.300	11/04/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	11/04/2019	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	11/04/2019	ND	212	106	200	4.55		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.6 % 37.6-147

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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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 8 @ 1' (H903727-24)

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	11/04/2019	ND	1.94	97.2	2.00	4.64		
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51		
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0		
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15		
Total BTEX	<0.300	0.300	11/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	11/04/2019	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	11/04/2019	ND	212	106	200	4.55		
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01		
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND						

Surrogate: 1-Chlorooctane 82.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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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:	10/31/2019	Sampling Date:	10/30/2019
Reported:	11/05/2019	Sampling Type:	Soil
Project Name:	HEIGHT CC 6-7 FED COM 31H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 8 @ 2' (H903727-25)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 8 @ 3' (H903727-26)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 8 @ 4' (H903727-27)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 8 @ 5' (H903727-28)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2019	ND	400	100	400	3.92		

Sample ID: SP 8 @ 6' (H903727-29)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2019	ND	400	100	400	3.92		

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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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 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: <i>Oxy</i>																			
City: Hobbs		State: NM		Zip: 88241		Attn: <i>W. Dittreich</i>																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																			
Project #:		Project Owner: <i>Oxy</i>		City:																			
Project Name: <i>Height CC 6-7 31H</i>				State:				Zip:															
Project Location:				Phone #:																			
Sampler Name: <i>Jeff Ornelas</i>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX			PRESERV.			SAMPLING												
				(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE		TIME							
<i>H903727</i>				<i>0</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>9:59</i>		<i>Chlorides</i>					
<i>1</i>		<i>SP 2 @ 4'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>10:20</i>		<i>BTEX</i>					
<i>2</i>		<i>SP 2 @ 5'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>10:32</i>		<i>TPH ext</i>					
<i>3</i>		<i>SP 3 @ 4'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>10:45</i>							
<i>4</i>		<i>SP 3 @ 5'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:01</i>							
<i>5</i>		<i>SP 5 @ Surface</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:11</i>							
<i>6</i>		<i>SP 5 @ 1'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:22</i>							
<i>7</i>		<i>SP 5 @ 2'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:33</i>							
<i>8</i>		<i>SP 5 @ 3'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:44</i>							
<i>9</i>		<i>SP 5 @ 4'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>			<i>10-30</i>		<i>11:55</i>							
<i>10</i>		<i>SP 5 @ 5'</i>		<i>1</i>			<i>✓</i>				<i>✓</i>												

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Relinquished By: <i>[Signature]</i>	Date: <i>10-31-19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>16:15</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) <i>-6.8c #97</i>	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>Corrected -6.4c</i>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <i>TO</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company: <i>Oxy</i>													
City: Hobbs State: NM Zip: 88241		Attn: <i>W. O. Hirsch</i>													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>Oxy</i>		City:													
Project Name: <i>Height CC 6-7 31 #</i>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <i>Jeff Ornelas</i>		Fax #:													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		Chlorides	BTEX	TPH Cat	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE				TIME
<i>H903 721</i>																
<i>11</i>	<i>SR 6 @ Surface</i>	<i>G 1</i>			<i>✓</i>					<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>12</i>	<i>SR 6 @ 1'</i>												<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>13</i>	<i>SR 6 @ 2'</i>												<i>✓</i>			
<i>14</i>	<i>SR 6 @ 3'</i>												<i>✓</i>			
<i>15</i>	<i>SR 6 @ 4'</i>												<i>✓</i>			
<i>16</i>	<i>SR 6 @ 5'</i>												<i>✓</i>			
<i>17</i>	<i>SR 7 @ Surface</i>												<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>18</i>	<i>SR 7 @ 1'</i>												<i>✓</i>	<i>✓</i>	<i>✓</i>	
<i>19</i>	<i>SR 7 @ 2'</i>												<i>✓</i>			
<i>20</i>	<i>SR 7 @ 3'</i>												<i>✓</i>			

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Relinquished By: <i>[Signature]</i>	Date: <i>10-31-19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>16:15</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) <i>-6.8i</i>	<i>#97</i>	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>Corrected -6.4i</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>JS</i>	
		Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		

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