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## DELINEATION/REMEDATION WORKPLAN

### OXY – Federal 12-1H Central Oil Tank (Leak Date: 4/16/20)

**Incident ID: NRM2015552273**

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2015552273.

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 – SP9 (PURPLE shade on diagram) will be excavated to a depth of 1 foot.***

***Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 253 cubic yards. Remediation activities will commence within 90 days of all approvals.***

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

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

Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	NRM2015552273
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	251 (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 checked="" type="checkbox"/> Yes <input 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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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	NRM2015552273
District RP	
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 7-17-20email: 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	NRM2015552273
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 7-17-20email: 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, Federal 12-1H Central Oil Tank

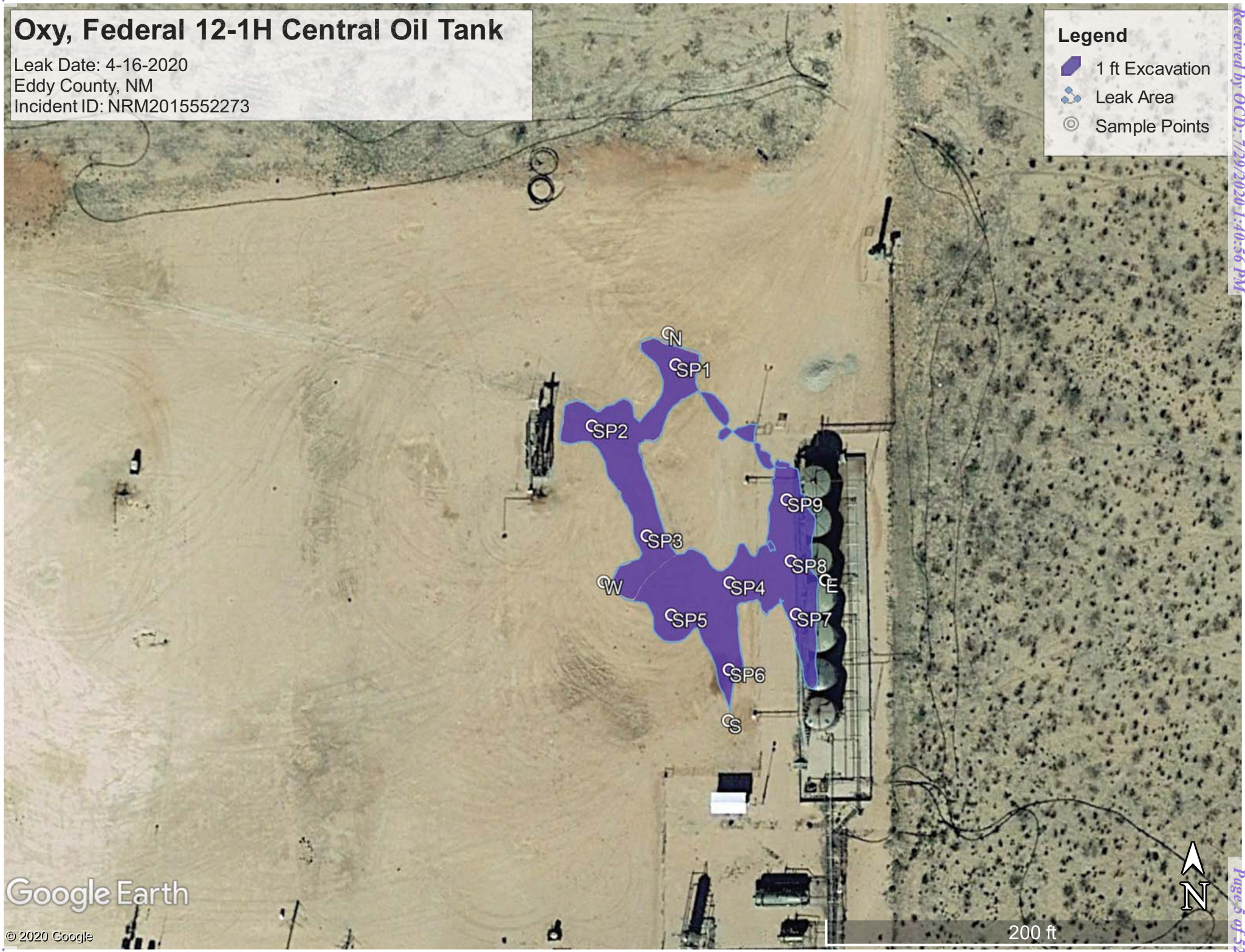
Leak Date: 4-16-2020  
Eddy County, NM  
Incident ID: NRM2015552273

Legend

1 ft Excavation

Leak Area

Sample Points



Oxy, Federal 12-1H Central Oil Tank **4-16-20**

Sample Points:

SP1, N 32.33014, W -103.82976

SP2, N 32.33006, W -103.82989

SP3, N 32.32991, W -103.82981

SP4, N 32.32985, W -103.82968

SP5, N 32.32981, W -103.82977

SP6, N 32.32974, W -103.82968

SP7, N 32.32981, W- 103.82957

SP8, N 32.32988, W -103.82958

SP9, N 32.32996, W -103.82959

N, N 32.33018, W -103.82977

E, N 32.32985, W -103.82953

W, N 32.32985, W -103.82987

S, N 32.32967, W -103.82968



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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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321937103503701

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

USGS 321937103503701 23S.30E.02.44414 A

Eddy County, New Mexico  
Latitude 32°19'40.0", Longitude 103°50'38.7" NAD83  
Land-surface elevation 3,268.00 feet above NGVD29  
The depth of the well is 317 feet below land surface.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 measur
1959-04-20			D 260.48				2		U	
1959-05-01			D 260.75				2		U	
1972-09-20			D 257.73				2		U	
1975-12-09			D 257.68				2		U	
1976-01-15			D 257.63				2		U	
1976-12-02			D 257.10				2		U	
1977-01-19			D 256.90				2		U	
1988-03-17			D 252.14				2		U	
1992-11-16			D 251.02				2		S	
2013-01-16	15:00 MST	m						O	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy		Not determined
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot



Section	Code	Description
Status		The reported water-level measurement represents a static level
Status	O	Obstruction was encountered in the well (no water level was recorded).
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
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?>**



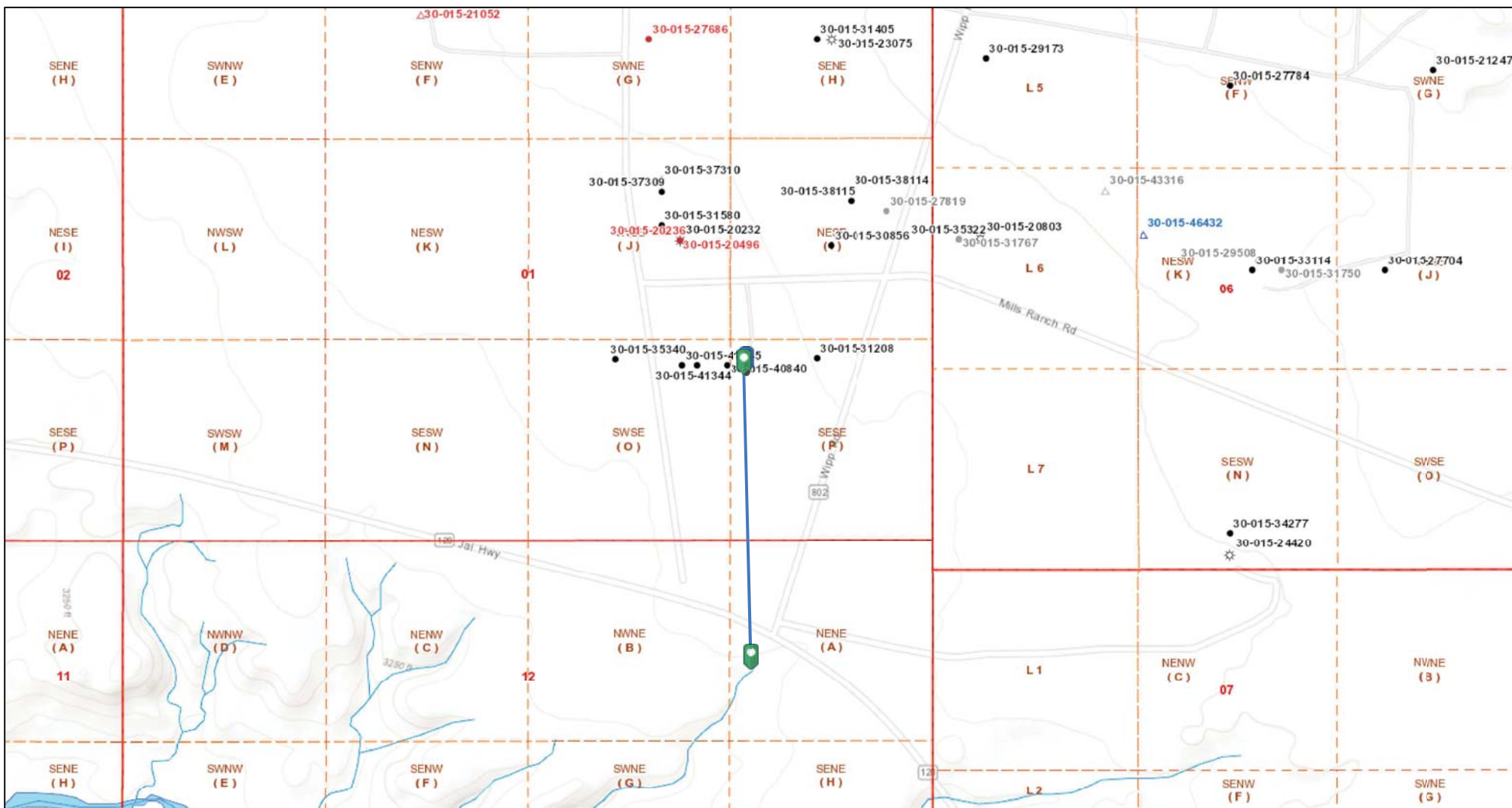
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-05-26 13:15:33 EDT

0.26 0.23 nadww02

































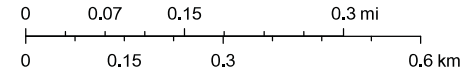
# Oxy Federal 12-1H Battery (4-16-20) 1,940 ft to h2o



5/28/2020 10:15:41 AM

1:9,028

Wells - Large Scale	 CO2, Temporarily Abandoned	 Injection, Active	 Oil, Cancelled	 Salt Water Injection, New
 undefined	 Gas, Active	 Injection, Cancelled	 Oil, New	 Salt Water Injection, Plugged
 Miscellaneous	 Gas, Cancelled	 Injection, New	 Oil, Plugged	 Salt Water Injection, Temporarily Abandoned
 CO2, Active	 Gas, New	 Injection, Plugged	 Oil, Temporarily Abandoned	 Water, Active
 CO2, Cancelled	 Gas, Plugged	 Injection, Temporarily Abandoned	 Salt Water Injection, Active	 Water, Cancelled
 CO2, New	 Gas, Temporarily Abandoned	 Oil, Active	 Salt Water Injection, Cancelled	 Water, New
 CO2, Plugged				



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

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb98f35ca75>; New Mexico Oil Conservation Division


# Oxy Federal 12-1H Battery


Leak Date: 4-16-20  
Eddy County, NM  
Incident ID: NRM2015552273

# BLM CAVE KARST MAP

Mills Ranch Rd

Legend

 High Potential

 Leak Area

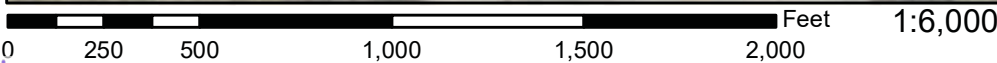
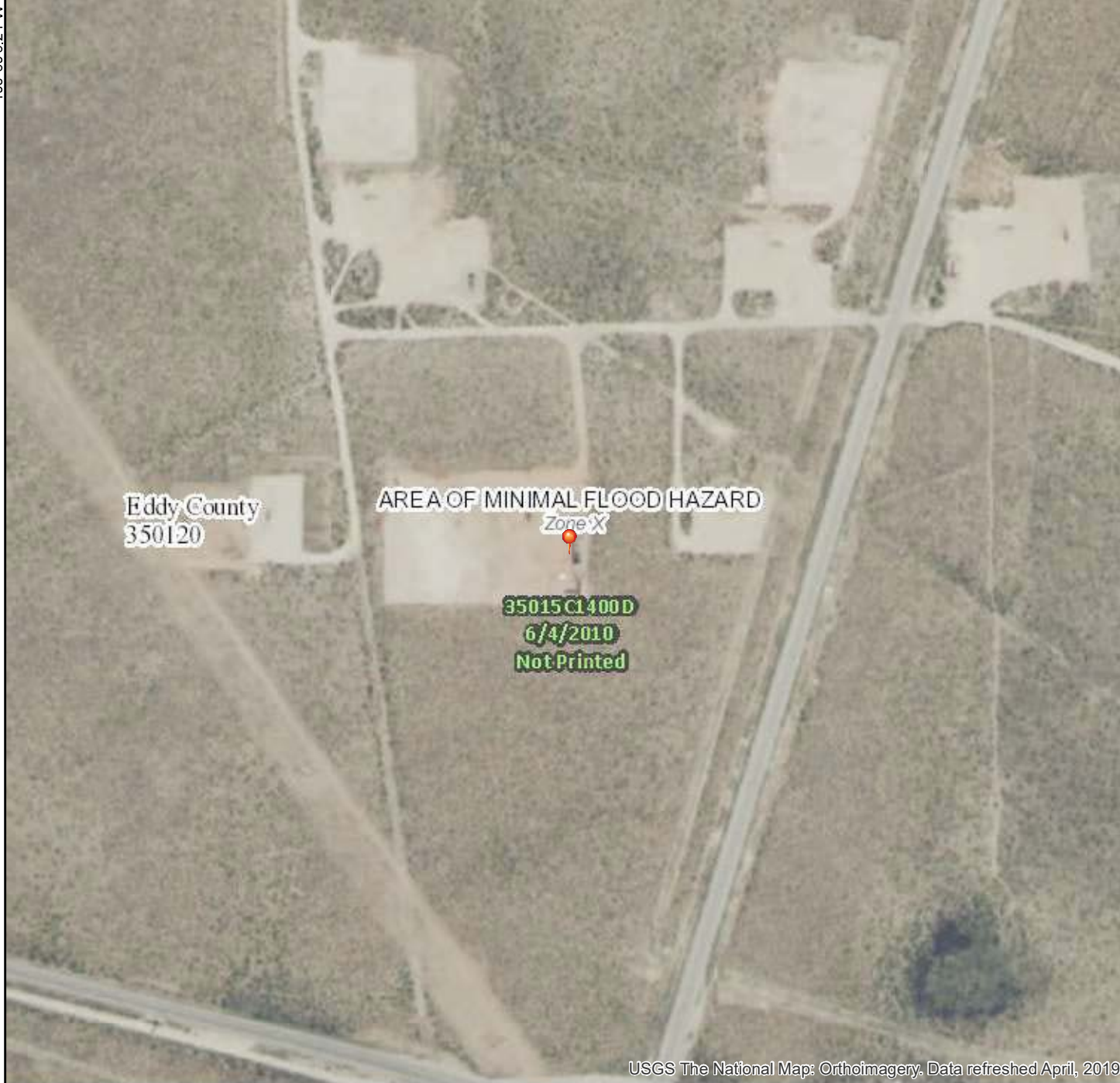
Received by OCD: 7/29/2020 1:40:56 PM



# National Flood Hazard Layer FIRMette



32°20'2.59"N



32°19'32.19"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 X
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
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 5/26/2020 at 1:38:45 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.

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Laboratory Analytical Results Summary  
Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	112	16.0	96.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		71200	880	544	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		12.2	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/28/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		64800	1390	576	32.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.256	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		123000	928	512	32.0
GRO	TPH 8015M		13.0	<10.0	n/a	n/a
DRO	TPH 8015M		10.2	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary  
Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		98600	528	240
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		69.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	5/27/20	5/27/20	5/27/20	5/27/20	5/27/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		62600	2160	1280	464	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		331	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		81.9	<10.0	n/a	n/a	n/a

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		77300	272	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		66600	848	64.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		29.2	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a



Laboratory Analytical Results Summary  
Oxy, Federal 12-1H Battery (4-16-20)

		Sample ID	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		62600	304	272
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	5/28/20	5/28/20	5/28/20	5/28/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		48000	1390	496	64.0
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a
DRO	TPH 8015M		8010	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2840	<10.0	n/a	n/a



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

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June 02, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 - 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/29/20 15:25.

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](http://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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: N @ SURFACE (H001462-01)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: E @ SURFACE (H001462-02)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/02/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.5 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: W @ SURFACE (H001462-03)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: S @ SURFACE (H001462-04)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 1 @ SURFACE (H001462-05)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	71200	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	12.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 1 @ 1' (H001462-06)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	06/02/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 1 @ 2' (H001462-07)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	544	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 1 @ 3' (H001462-08)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/02/2020	ND	400	100	400	3.92	

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 2 @ SURFACE (H001462-09)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	64800	16.0	06/02/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.3 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 2 @ 1' (H001462-10)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	1390	16.0	06/02/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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**Analytical Results For:**

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	( 4 -16 - 20 )	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 2 @ 2' (H001462-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/02/2020	ND	400	100	400	3.92	

**Sample ID: SP 2 @ 3' (H001462-12)**

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	06/02/2020	ND	400	100	400	3.92	

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**Analytical Results For:**

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 Fax To: (575) 397-0397

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 3 @ SURFACE (H001462-13)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
<b>Total Xylenes*</b>	<b>0.256</b>	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	123000	16.0	06/02/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	10.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 3 @ 1' (H001462-14)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	928	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	( 4 -16 - 20 )	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 3 @ 2' (H001462-15)**

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	06/02/2020	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 3' (H001462-16)**

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	06/02/2020	ND	400	100	400	3.92	

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 4 @ SURFACE (H001462-17)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	98600	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	69.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 4 @ 1' (H001462-18)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTEX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	528	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 4 @ 2' (H001462-19)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	06/02/2020	ND	400	100	400	3.92	

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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 5 @ SURFACE (H001462-20)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	62600	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	331	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	81.9	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/27/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 5 @ 1' (H001462-21)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	2160	16.0	06/02/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.4 % 42.2-156

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**Analytical Results For:**

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

Received:	05/29/2020	Sampling Date:	05/27/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	( 4 -16 - 20 )	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 5 @ 2' (H001462-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	06/02/2020	ND	400	100	400	3.92		

**Sample ID: SP 5 @ 3' (H001462-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/02/2020	ND	400	100	400	3.92	

**Sample ID: SP 5 @ 4' (H001462-24)**

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	06/02/2020	ND	400	100	400	3.92	

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 6 @ SURFACE (H001462-25)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	77300	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 6 @ 1' (H001462-26)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	272	16.0	06/02/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 6 @ 2' (H001462-27)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	06/02/2020	ND	416	104	400	10.9	

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 Fax To: (575) 397-0397

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 7 @ SURFACE (H001462-28)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	66600	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	29.2	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 7 @ 1' (H001462-29)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21	
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73	
Total BTEX	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	848	16.0	06/02/2020	ND	416	104	400	10.9	

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	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 7 @ 2' (H001462-30)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	06/02/2020	ND	416	104	400	10.9	

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 8 @ SURFACE (H001462-31)**

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	06/01/2020	ND	1.89	94.4	2.00	1.21		
Toluene*	<0.050	0.050	06/01/2020	ND	1.91	95.5	2.00	1.11		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.96	97.9	2.00	1.64		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.74	95.7	6.00	1.73		
Total BTX	<0.300	0.300	06/01/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	62600	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	192	95.8	200	4.91	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	187	93.4	200	6.31	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 8 @ 1' (H001462-32)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2020	ND	1.99	99.6	2.00	3.01	
Toluene*	<0.050	0.050	06/01/2020	ND	1.92	96.0	2.00	3.07	
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.95	97.5	2.00	2.76	
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.50	91.7	6.00	2.96	
Total BTEx	<0.300	0.300	06/01/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	304	16.0	06/02/2020	ND	416	104	400	10.9	

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	06/01/2020	ND	189	94.4	200	5.82	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	188	93.8	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 8 @ 2' (H001462-33)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>272</b>	16.0	06/02/2020	ND	416	104	400	10.9	

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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: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 9 @ SURFACE (H001462-34)**

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	06/02/2020	ND	1.99	99.6	2.00	3.01		
Toluene*	<0.050	0.050	06/02/2020	ND	1.92	96.0	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/02/2020	ND	1.95	97.5	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/02/2020	ND	5.50	91.7	6.00	2.96		
Total BTEx	<0.300	0.300	06/02/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 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	48000	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	189	94.4	200	5.82	
DRO >C10-C28*	8010	50.0	06/01/2020	ND	188	93.8	200	5.36	
EXT DRO >C28-C36	2840	50.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 468 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/29/2020  
 Reported: 06/02/2020  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: ( 4 -16 - 20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 05/28/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Kelly Jacobson

**Sample ID: SP 9 @ 1' (H001462-35)**

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	06/01/2020	ND	1.99	99.6	2.00	3.01		
Toluene*	<0.050	0.050	06/01/2020	ND	1.92	96.0	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/01/2020	ND	1.95	97.5	2.00	2.76		
Total Xylenes*	<0.150	0.150	06/01/2020	ND	5.50	91.7	6.00	2.96		
Total BTEx	<0.300	0.300	06/01/2020	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	1390	16.0	06/02/2020	ND	416	104	400	10.9		

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	06/01/2020	ND	189	94.4	200	5.82	
DRO >C10-C28*	<10.0	10.0	06/01/2020	ND	188	93.8	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	06/01/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/29/2020	Sampling Date:	05/28/2020
Reported:	06/02/2020	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	( 4 -16 - 20 )	Sample Received By:	Kelly Jacobson
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 9 @ 2' (H001462-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	06/02/2020	ND	416	104	400	10.9		

**Sample ID: SP 9 @ 3' (H001462-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/02/2020	ND	416	104	400	10.9	

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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.
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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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1 of 4

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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

204

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: OXY																			
City: Hobbs		State: NM Zip: 88241		Attn: WADE																			
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																			
Project #:		Project Owner: Oxy		City:																			
Project Name: Federal 12-1H Battery (4-16-20)				State: Zip:																			
Project Location: Eddy County, NM				Phone #:																			
Sampler Name: Simon Rendon				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING													
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT						
H001462	SP2 @ 2'	6										5/27/20	11:20 AM	✓									
11	SP2 @ 3'											5/27/20	11:36 AM	✓									
13	SP3 @ Surface											5/27/20	11:49 AM	✓	✓	✓							
14	SP3 @ 1'											5/27/20	12:43 PM	✓	✓	✓							
15	SP3 @ 2'											5/27/20	1:03 PM	✓									
16	SP3 @ 3'											5/27/20	1:18 PM	✓									
17	SP4 @ Surface											5/27/20	1:39 PM	✓	✓	✓							
18	SP4 @ 1'											5/27/20	2:00 PM	✓	✓	✓							
19	SP4 @ 2'											5/27/20	2:16 PM	✓									
20	SP5 @ Surface											5/27/20	2:38 PM	✓	✓	✓							

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Relinquished By:	Date: 5-29-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1525		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) 3.8c	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	145		

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																									
Project Manager: Cliff Brunson				P.O. #:																													
Address: P.O. Box 805				Company: OXY																													
City: Hobbs		State: NM		Zip: 88241		Attn: WADE																											
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																													
Project #:		Project Owner: Oxy		City:																													
Project Name: Federal 12-1H Battery (4-16-20)				State: Zip:																													
Project Location: Eddy County, NM				Phone #:																													
Sampler Name: Simon Rendon				Fax #:																													
FOR LAB USE ONLY																																	
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING																							
						GROUNDWATER																											
						WASTEWATER																											
						SOIL																											
						OIL																											
						SLUDGE																											
						OTHER :																											
						ACID/BASE:																											
						ICE / COOL																											
						OTHER :																											
										DATE		TIME																					
														CL		BTX		TPH		EXT													
H001462		21		SP5 @ 1'								5/27/20		11:20 AM		✓		✓		✓													
		22		SP5 @ 2'								5/27/20		11:36 AM		✓																	
		23		SP5 @ 3'								5/27/20		11:49 AM		✓																	
		24		SP5 @ 4'								5/27/20		12:43 PM		✓																	
		25		SP6 @ Surface								5/28/20		8:50 AM		✓		✓		✓													
		26		SP6 @ 1'								5/28/20		9:12 AM		✓		✓		✓													
		27		SP6 @ 2'								5/28/20		9:28 AM		✓																	
		28		SP7 @ Surface								5/28/20		9:43 AM		✓		✓		✓													
		29		SP7 @ 1'								5/28/20		10:00 AM		✓		✓		✓													
		30		SP7 @ 2'								5/28/20		10:36 AM		✓																	
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																	
Relinquished By:				Date: 5-29-20		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																			
Time: 1525								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																					
Relinquished By:				Date:		Received By:				REMARKS:																							
Time:																																	
Delivered By: (Circle One) 3.8c				Sample Condition				CHECKED BY:																									
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																									
				<input type="checkbox"/> Yes <input type="checkbox"/> No				115																									

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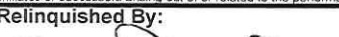

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

[illegible]

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Relinquished By: 		Date: 5-29-20 Time: 1525		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) 3.8c Sampler - UPS - Bus - Other:		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 163		REMARKS:	

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