



DELINEATION WORKPLAN

OXY – TURKEY TRACK 4 3 STATE 33H (Leak Date: 10/24/18)

RP # 2RP-5060

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5060.

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 and SP2 (GREEN shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP3 – SP6 and SP13 – SP14 (PURPLE shade on diagram) will require zero remediation. The leak area near SP7 – SP12 and SP15 – SP25 (BLUE shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 819 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

Incident ID	
District RP	2RP-5060
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?	150 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

Incident ID	
District RP	2RP-5060
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator

Signature:  Date: 12-13-18

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

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5060
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: 12-13-18
 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: _____



New Mexico State Land Office Revegetation and Noxious Weed Management Plan OXY – TURKEY TRACK 4 3 STATE 33H

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Grasses:

Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D

Forbs:

Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annuul Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D

Total PLS/acre 17

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

Oxy, Turkey Track 4 3 State 33H

Leak date: 10/24/18
Eddy County, NM
API# 30-015-44411
2RP-5060

Legend

- 1 ft Excavation
- 4 ft Excavation
- LEAK AREA
- Location Pad
- No remediation necessary
- Sample points



Turkey Track 4 3 State 33 H

Leak Date: 10/24/18

2RP-5060

Aerial drone picture taken 2/12/19 to verify part of the leak is on a new location that does not exist in the current Google Earth Image.

Legend

 LEAK AREA



Oxy, Turkey Track 4 3 State 33H

Sample points

SP1, N 32.68790 W-104.08713

SP2, N 32.68785 W104.08724

SP3, N 32.68784 W-104.08737

SP4, N 32.68783 W-104.08752

SP5, N 32.68787 W-104.08762

SP6, N 32.68787 W-104.08778

SP7, N 32.68780 W-104.08784

SP8, N 32.68768 W-104.08785

SP9, N 32.68771 W-104.08793

SP10, N 32.68765 W-104.08799

SP11, N 32.68759 W-104.08801

SP12, N 32.68761 W-104.08789

SP13, N 32.68755 W-104.08803

SP14, N 32.68749 W-104.08794

SP15, N 32.68757 W-104.08820

SP16, N 32.68761 W-104.08776

SP17, N 32.68776 W-104.08766

SP18, N 32.68766 W-104.08767

SP19, N 32.68774 W-104.08755

SP20, N 32.68762 W-104.08755

SP21, N 32.68755 W-104.08832

SP22, N 32.68748 W-104.08839

SP23, N 32.68744 W-104.08852

SP24, N 32.68735 W-104.08854

SP25, N 32.68732 W-104.08843

NORTH, N 32.68796 W-104.08763

SOUTH, N 32.68747 W-104.08808

EAST, N 32.38785 W-104.08703

WEST, N 32.68738 W-104.08858

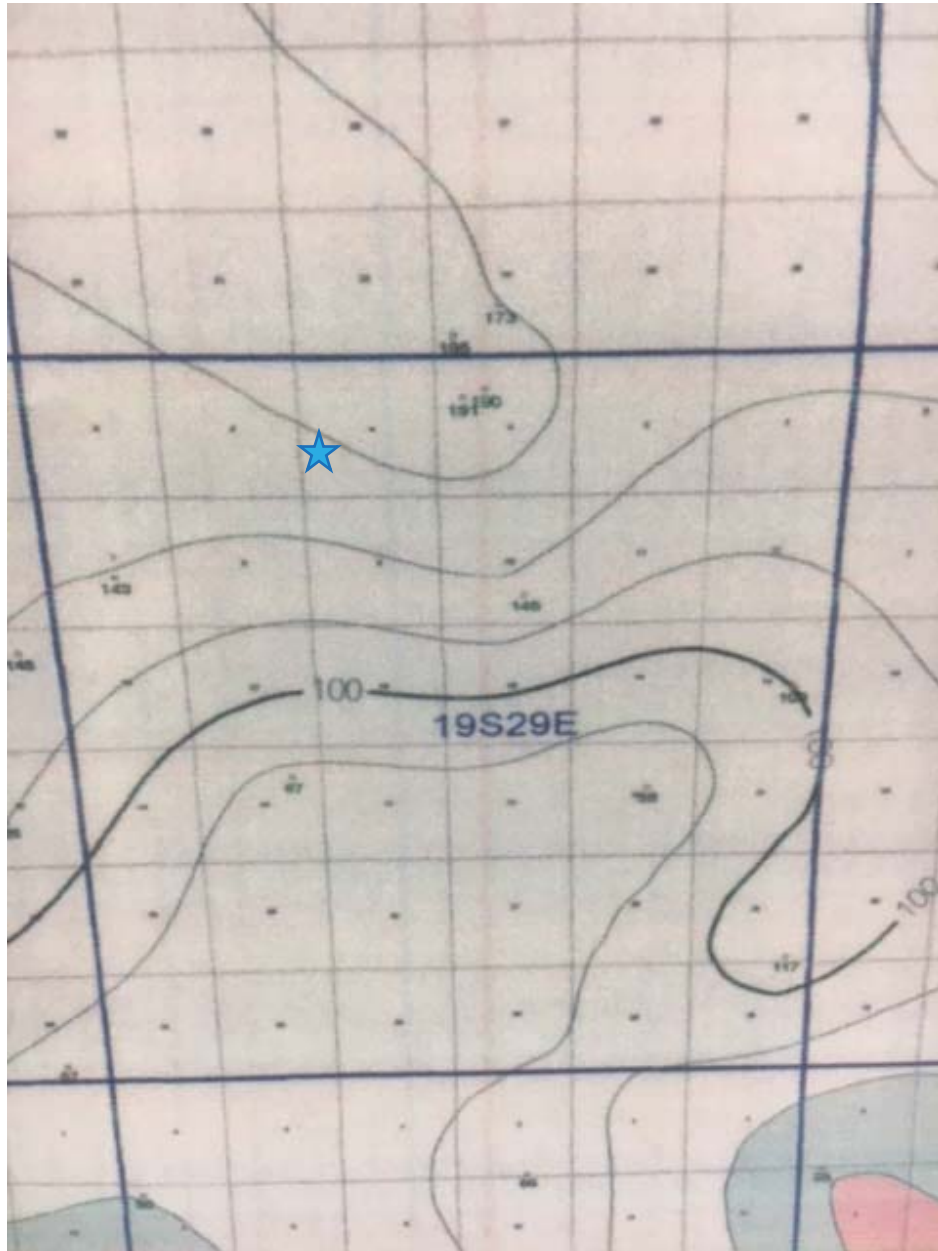
SOUTH#2, N 32.68755 W-104.08763

WEST#2, N 32.68768 W-104.08803

Oxy, Turkey Track 4 3 State 33H

U/L L, Section 4, T19S, R29E

Groundwater: 150'





USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- [Please see news on new formats](#)
- **UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read [more](#)**
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 324139104034901

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

USGS 324139104034901 19S.29E.03.12344

Eddy County, New Mexico
 Latitude 32°41'38.8", Longitude 104°03'52.2" NAD83
 Land-surface elevation 3,421 feet above NAVD88
 The depth of the well is 240 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) 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
1984-07-20		D	192.26			2		U		
1994-03-11		D	189.96			2		S		
1999-01-15		D	188.86			2		S	USGS	
2015-12-16	11:20 MST	m	205.42			2	R	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.

Section	Code	Description
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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

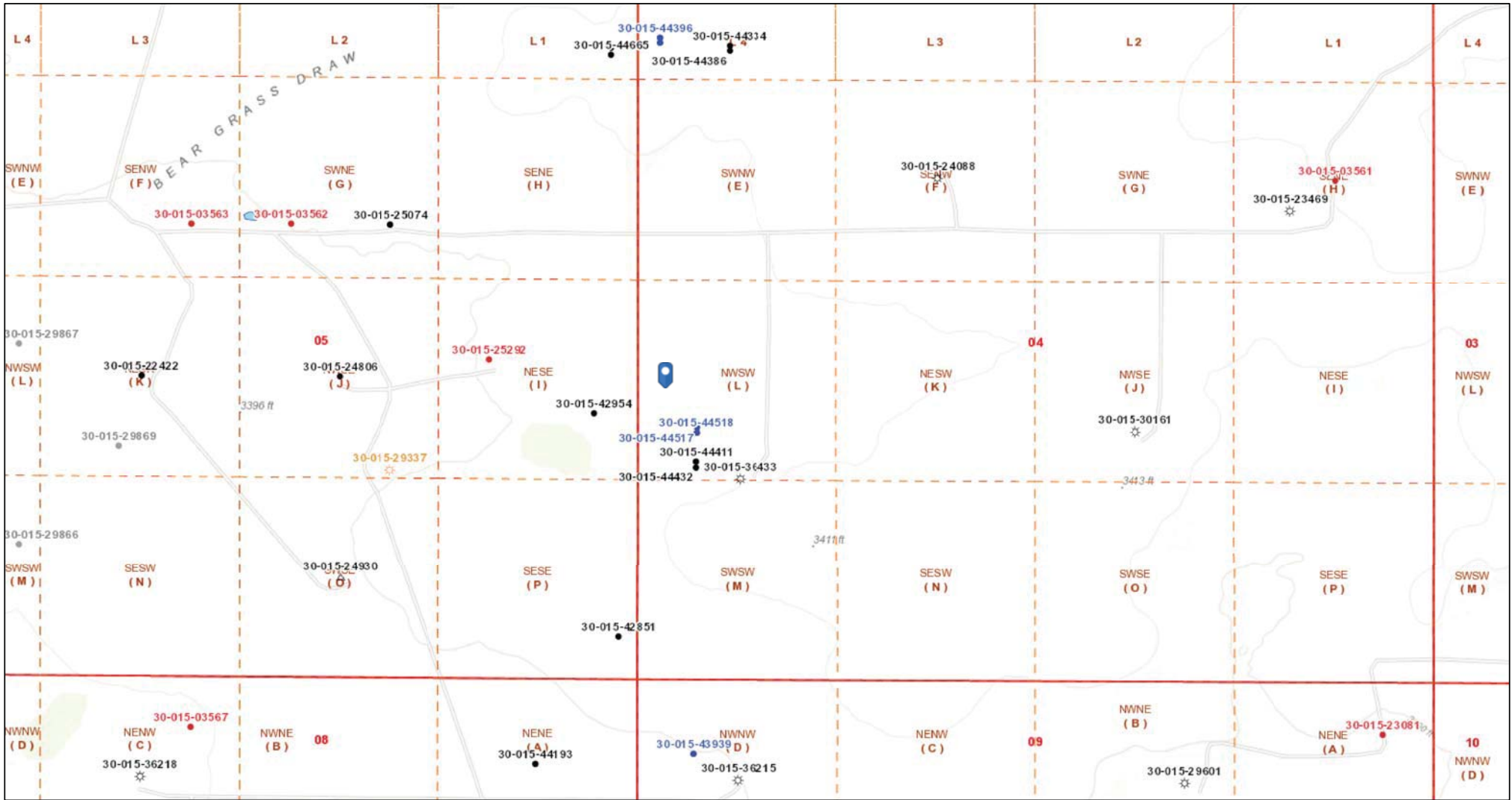


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-11-16 17:10:39 EST

0.57 0.48 nadww01

Turkey Track 4 3 St 33H, Topo Map with water features



11/16/2018 3:03:10 PM

1:9,028

Well Locations - Small Scale

Well Locations - Large Scale

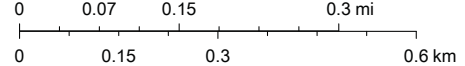
- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned
- Miscellaneous
- ☀ CO2 Active
- ☀ CO2 Cancelled
- ☀ CO2 New
- ☀ CO2 Plugged
- ☀ CO2 Temporarily Abandoned

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

- ☀ Injection, Cancelled
- ☀ Injection, New
- ☀ Injection, Plugged
- ☀ Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

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

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







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

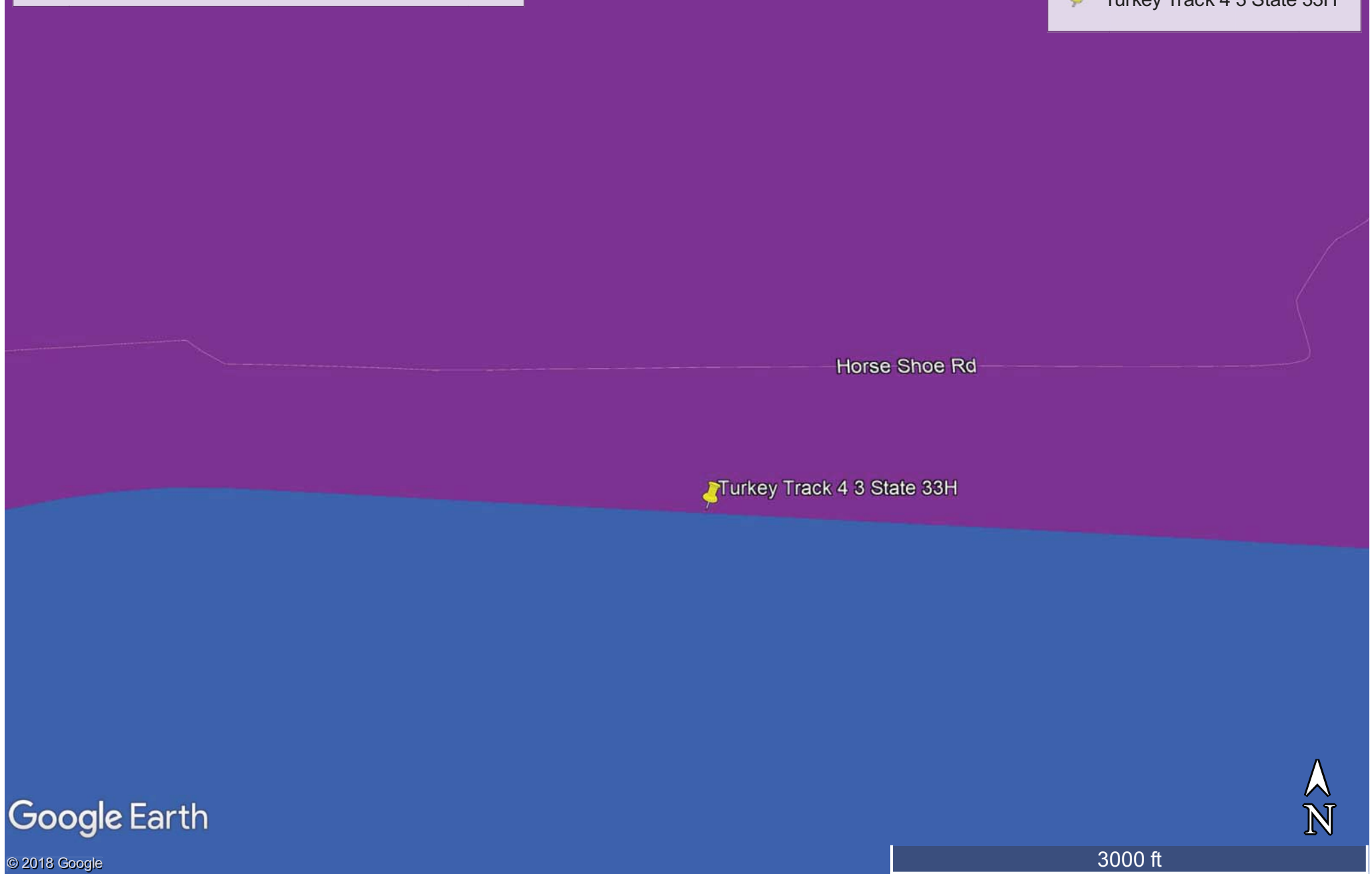
Oxy, Turkey Track 4 3 State 33H

Leak date: 10/24/18
Eddy County, NM
AP# 30-015-44411
2RP-5060

BLM CAVE KARST MAP

Legend

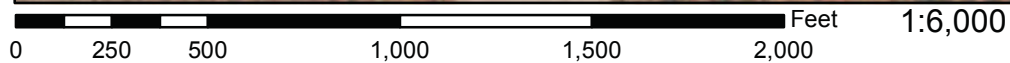
-  High potential
-  Low potential
-  Medium potential
-  Turkey Track 4 3 State 33H



National Flood Hazard Layer FIRMette



32°41'31.37"N



32°41'1.08"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
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
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 **11/16/2018 at 5:21:44 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.

104°4'57.42"W

Laboratory Analytical Results Summary
Turkey Track 4 3 State 33H (10/24/18)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
			SURFACE					
		Date	11/6/18	11/6/18	11/6/18	11/6/18	11/6/18	11/6/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		736	3400	5680	2600	160	128
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'
			SURFACE	
		Date	11/7/18	11/7/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		16	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			SURFACE					
		Date	11/6/18	11/6/18	11/6/18	11/6/18	11/6/18	11/6/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		720	3360	6000	2600	224	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP6 @	SP6 @ 1'
			SURFACE	
		Date	11/7/18	11/7/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		16	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'
			SURFACE	
		Date	11/6/18	11/6/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		32	80
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP7 @	SP7 @ 1'	SP7 @ 2'
			SURFACE		
		Date	11/7/18	11/7/18	11/7/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		28000	80	128
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'
			SURFACE	
		Date	11/6/18	11/6/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		16	80
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP8 @	SP8 @ 1'	SP8 @ 2'
			SURFACE		
		Date	11/7/18	11/7/18	11/7/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		18800	32	128
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Laboratory Analytical Results Summary
Turkey Track 4 3 State 33H (10/24/18)

Analyte	Method	Sample ID	SP9 @	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
			SURFACE	11/7/18	11/7/18	11/7/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		14400	96	528	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		28.1	n/a	n/a	n/a
EXT DRO	TPH 8015M		11	n/a	n/a	n/a

Analyte	Method	Sample ID	SP13 @	SP13 @ 1'
			SURFACE	11/8/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		16	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP10 @	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
			SURFACE	11/7/18	11/7/18	11/7/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		13600	64	16	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		20.7	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID	SP14 @	SP14 @ 1'
			SURFACE	11/8/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a
Toluene	BTEX 8021B		<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	n/a
Chloride	SM4500CI-B		16	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Analyte	Method	Sample ID	SP11 @	SP11 @ 1'	SP11 @ 2'
			SURFACE	11/8/18	11/8/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		20800	16	32
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		35	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample ID	SP15 @	SP15 @ 1'	SP15 @ 2'
			SURFACE	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		16400	96	64
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample ID	SP12 @	SP12 @ 1'	SP12 @ 2'
			SURFACE	11/8/18	11/8/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		23600	48	48
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		45.7	n/a	n/a
EXT DRO	TPH 8015M		12.2	n/a	n/a

Analyte	Method	Sample ID	SP16 @	SP16 @ 1'	SP16 @ 2'
			SURFACE	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		14000	80	112
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Laboratory Analytical Results Summary
Turkey Track 4 3 State 33H (10/24/18)

		Sample ID	SP17 @ SURFACE	SP17 @ 1'	SP17 @ 2'
Analyte	Method	Date	11/9/18	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		12800	64	128
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		17	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP18 @ SURFACE	SP18 @ 1'	SP18 @ 2'
Analyte	Method	Date	11/9/18	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.328	n/a	n/a
Total BTEX	BTEX 8021B		0.327	n/a	n/a
Chloride	SM4500CI-B		43200	16	16
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		36.6	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP19 @ SURFACE	SP19 @ 1'	SP19 @ 2'
Analyte	Method	Date	11/9/18	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.165	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		40400	48	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		24.4	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP20 @ SURFACE	SP20 @ 1'	SP20 @ 2'
Analyte	Method	Date	11/9/18	11/9/18	11/9/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		24000	32	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		11.9	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP21 @ SURFACE	SP21 @ 1'	SP21 @ 2'
Analyte	Method	Date	11/12/18	11/12/18	11/12/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		2240	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		74.5	n/a	n/a
EXT DRO	TPH 8015M		10.6	n/a	n/a

		Sample ID	SP22 @ SURFACE	SP22 @ 1'	SP22 @ 2'
Analyte	Method	Date	11/12/18	11/12/18	11/12/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		30800	16	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		48.3	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP23 @ SURFACE	SP23 @ 1'	SP23 @ 2'
Analyte	Method	Date	11/12/18	11/12/18	11/12/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		25200	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		64.2	n/a	n/a
EXT DRO	TPH 8015M		10.3	n/a	n/a

		Sample ID	SP24 @ SURFACE	SP24 @ 1'	SP24 @ 2'
Analyte	Method	Date	11/12/18	11/12/18	11/12/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		24000	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		95	n/a	n/a
EXT DRO	TPH 8015M		13.1	n/a	n/a

November 26, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TURKEY TRACK 4 3 STATE 33H

Enclosed are the results of analyses for samples received by the laboratory on 11/19/18 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ SURFACE (H803379-01)

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	11/20/2018	ND	2.33	116	2.00	7.76	
Toluene*	<0.050	0.050	11/20/2018	ND	2.25	113	2.00	7.65	
Ethylbenzene*	<0.050	0.050	11/20/2018	ND	2.17	108	2.00	6.94	
Total Xylenes*	<0.150	0.150	11/20/2018	ND	6.79	113	6.00	6.28	
Total BTEX	<0.300	0.300	11/20/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/21/2018	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	11/20/2018	ND	188	93.9	200	10.6	
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69	
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND					

Surrogate: 1-Chlorooctane 80.4 % 41-142
Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H803379-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	11/21/2018	ND	400	100	400	3.92	

Sample ID: SP 1 @ 2' (H803379-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	11/21/2018	ND	400	100	400	3.92	

Sample ID: SP 1 @ 3' (H803379-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	11/21/2018	ND	400	100	400	3.92	

Sample ID: SP 1 @ 4' (H803379-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/21/2018	ND	400	100	400	3.92	

Sample ID: SP 1 @ 5' (H803379-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2018	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ SURFACE (H803379-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2018	ND	2.33	116	2.00	7.76		
Toluene*	<0.050	0.050	11/20/2018	ND	2.25	113	2.00	7.65		
Ethylbenzene*	<0.050	0.050	11/20/2018	ND	2.17	108	2.00	6.94		
Total Xylenes*	<0.150	0.150	11/20/2018	ND	6.79	113	6.00	6.28		
Total BTEX	<0.300	0.300	11/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 1' (H803379-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 2 @ 2' (H803379-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 2 @ 3' (H803379-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 2 @ 4' (H803379-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 2 @ 5' (H803379-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ SURFACE (H803379-13)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2018	ND	2.33	116	2.00	7.76		
Toluene*	<0.050	0.050	11/20/2018	ND	2.25	113	2.00	7.65		
Ethylbenzene*	<0.050	0.050	11/20/2018	ND	2.17	108	2.00	6.94		
Total Xylenes*	<0.150	0.150	11/20/2018	ND	6.79	113	6.00	6.28		
Total BTEX	<0.300	0.300	11/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	173	86.5	200	8.40		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	196	98.1	200	6.09		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 70.3 % 41-142

Surrogate: 1-Chlorooctadecane 71.4 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 1' (H803379-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2018	ND	432	108	400	3.77	

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ SURFACE (H803379-15)

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	11/20/2018	ND	2.33	116	2.00	7.76		
Toluene*	<0.050	0.050	11/20/2018	ND	2.25	113	2.00	7.65		
Ethylbenzene*	<0.050	0.050	11/20/2018	ND	2.17	108	2.00	6.94		
Total Xylenes*	<0.150	0.150	11/20/2018	ND	6.79	113	6.00	6.28		
Total BTEX	<0.300	0.300	11/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	173	86.5	200	8.40		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	196	98.1	200	6.09		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/06/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 1' (H803379-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ SURFACE (H803379-17)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 1' (H803379-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77	

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ SURFACE (H803379-19)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

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

Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 1' (H803379-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ SURFACE (H803379-21)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28000	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 83.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 1' (H803379-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 7 @ 2' (H803379-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ SURFACE (H803379-24)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	<10.0	10.0	11/20/2018	ND	168	84.0	200	7.69		
EXT DRO >C28-C36	<10.0	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ 1' (H803379-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 8 @ 2' (H803379-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2018	ND	432	108	400	3.77	

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

Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ SURFACE (H803379-27)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	11/21/2018	ND	432	108	400	3.77	QM-07	

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	28.1	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	11.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ 1' (H803379-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 9 @ 2' (H803379-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 9 @ 3' (H803379-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ SURFACE (H803379-31)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	11/21/2018	ND	432	108	400	3.77	

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	11/21/2018	ND	198	99.0	200	1.21	
DRO >C10-C28*	20.7	10.0	11/21/2018	ND	216	108	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/07/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 1' (H803379-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 10 @ 2' (H803379-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 10 @ 3' (H803379-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ SURFACE (H803379-35)

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	11/21/2018	ND	2.13	106	2.00	4.66		
Toluene*	<0.050	0.050	11/21/2018	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	2.07	104	2.00	3.12		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.20	103	6.00	3.71		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	35.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ 1' (H803379-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 11 @ 2' (H803379-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ SURFACE (H803379-38)

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	11/21/2018	ND	2.13	106	2.00	4.66	
Toluene*	<0.050	0.050	11/21/2018	ND	2.12	106	2.00	4.42	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	2.07	104	2.00	3.12	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.20	103	6.00	3.71	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	11/21/2018	ND	432	108	400	3.77	

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	11/21/2018	ND	198	99.0	200	1.21	
DRO >C10-C28*	45.7	10.0	11/21/2018	ND	216	108	200	0.864	
EXT DRO >C28-C36	12.2	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ 1' (H803379-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2018	ND	432	108	400	3.77	

Sample ID: SP 12 @ 2' (H803379-40)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ SURFACE (H803379-41)

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	11/21/2018	ND	2.13	106	2.00	4.66		
Toluene*	<0.050	0.050	11/21/2018	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	2.07	104	2.00	3.12		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.20	103	6.00	3.71		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ 1' (H803379-42)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 14 @ SURFACE (H803379-43)

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	11/21/2018	ND	2.13	106	2.00	4.66		
Toluene*	<0.050	0.050	11/21/2018	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	2.07	104	2.00	3.12		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.20	103	6.00	3.71		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 83.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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 Cliff Brunson
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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 14 @ 1' (H803379-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77	

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

Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: NORTH @ SURFACE (H803379-45)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: EAST @ SURFACE (H803379-46)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	3.77		

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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 76.9 % 41-142

Surrogate: 1-Chlorooctadecane 75.7 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WEST @ SURFACE (H803379-47)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/08/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SOUTH @ SURFACE (H803379-48)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	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	11/21/2018	ND	198	99.0	200	1.21		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 83.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 15 @ SURFACE (H803379-49)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	11/21/2018	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	11/21/2018	ND	198	99.0	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 15 @ 1' (H803379-50)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 15 @ 2' (H803379-51)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 16 @ SURFACE (H803379-52)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	11/21/2018	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	11/21/2018	ND	198	99.0	200	1.21	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	216	108	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 16 @ 1' (H803379-53)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 16 @ 2' (H803379-54)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/21/2018	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 17 @ SURFACE (H803379-55)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	11/21/2018	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	11/21/2018	ND	198	99.0	200	1.21	
DRO >C10-C28*	17.0	10.0	11/21/2018	ND	216	108	200	0.864	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 92.9 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 17 @ 1' (H803379-56)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 17 @ 2' (H803379-57)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 18 @ SURFACE (H803379-58)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	0.328	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	0.327	0.300	11/21/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	36.6	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 18 @ 1' (H803379-59)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 18 @ 2' (H803379-60)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 19 @ SURFACE (H803379-61)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	0.165	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40400	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	24.4	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 19 @ 1' (H803379-62)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 19 @ 2' (H803379-63)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 20 @ SURFACE (H803379-64)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	11.9	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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 Fax To: (575) 397-0397

Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 20 @ 1' (H803379-65)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 20 @ 2' (H803379-66)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WEST #2 @ SURFACE (H803379-67)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	224	112	200	7.96		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/09/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SOUTH #2 @ SURFACE (H803379-68)

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	11/21/2018	ND	1.95	97.3	2.00	7.70		
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97		
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	224	112	200	7.96		
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 21 @ SURFACE (H803379-69)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	74.5	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	10.6	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 21 @ 1' (H803379-70)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 21 @ 2' (H803379-71)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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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:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 22 @ SURFACE (H803379-72)

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	11/21/2018	ND	1.95	97.3	2.00	7.70	
Toluene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.88	94.0	2.00	8.21	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.54	92.3	6.00	8.04	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	48.3	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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 Cliff Brunson
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 Hobbs NM, 88241
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Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 22 @ 1' (H803379-73)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 22 @ 2' (H803379-74)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 23 @ SURFACE (H803379-75)

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	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	64.2	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	10.3	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 23 @ 1' (H803379-76)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 23 @ 2' (H803379-77)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 24 @ SURFACE (H803379-78)

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	11/21/2018	ND	2.01	101	2.00	1.81		
Toluene*	<0.050	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97		
DRO >C10-C28*	95.0	10.0	11/21/2018	ND	224	112	200	7.96		
EXT DRO >C28-C36	13.1	10.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 24 @ 1' (H803379-79)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 24 @ 2' (H803379-80)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Analytical Results For:

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

Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 25 @ SURFACE (H803379-81)

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	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27200	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	33.2	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 99.0 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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

Received:	11/19/2018	Sampling Date:	11/12/2018
Reported:	11/26/2018	Sampling Type:	Soil
Project Name:	TURKEY TRACK 4 3 STATE 33H	Sampling Condition:	Cool & Intact
Project Number:	(10-24-18)	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 25 @ 1' (H803379-82)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/21/2018	ND	432	108	400	0.00	

Sample ID: SP 25 @ 2' (H803379-83)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	432	108	400	0.00	

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																																																																																																																																																																																																																			
Project Manager: Cliff Brunson		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">BTSX</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Extended</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">C1</p> </div>																																																																																																																																																																																																																			
Address: P.O. Box 805		Company: <i>Oxy</i>																																																																																																																																																																																																																					
City: Hobbs State: NM Zip: 88241		Attn: <i>W. Dettrich</i>																																																																																																																																																																																																																					
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																																																																																																																																																																																																																					
Project #: Project Owner:		City:																																																																																																																																																																																																																					
Project Name: <i>Turkey Track 43 State 33H</i>		State: Zip:																																																																																																																																																																																																																					
Project Location: <i>(10-24-18)</i>		Phone #:																																																																																																																																																																																																																					
Sampler Name: <i>Roger Hernandez</i>		Fax #:																																																																																																																																																																																																																					
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Relinquished By: <i>Roger Hernandez</i>	Date: <i>11/19/18</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>10:00</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)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>1.5c / #97</i>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>		

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

