



DELINEATION WORKPLAN

OXY – RED TANK 35 3 SWD FACILITY (Leak Date: 10/28/18)

RP # 1RP-5284

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5284.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3, SP5 – SP8, SP10, SP12, SP18, and SP22 – SP26 (BLUE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4, SP9, SP11, SP13 – SP16 (PURPLE shade on diagram) will require zero remediation. The leak area near SP17 and SP29 (ORANGE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP20 (PINK shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP21 (GREEN shade on diagram) will be excavated to a depth of 2 feet.

Bottom confirmation samples will be collected at no greater than 75 ft. intervals. Estimated volume of material to be removed is 1,960 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	1RP-5284
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?	197 (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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5284
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: 6-27-19

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

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	1RP-5284
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: 6-27-19

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OCD Only

Received by: _____ Date: _____

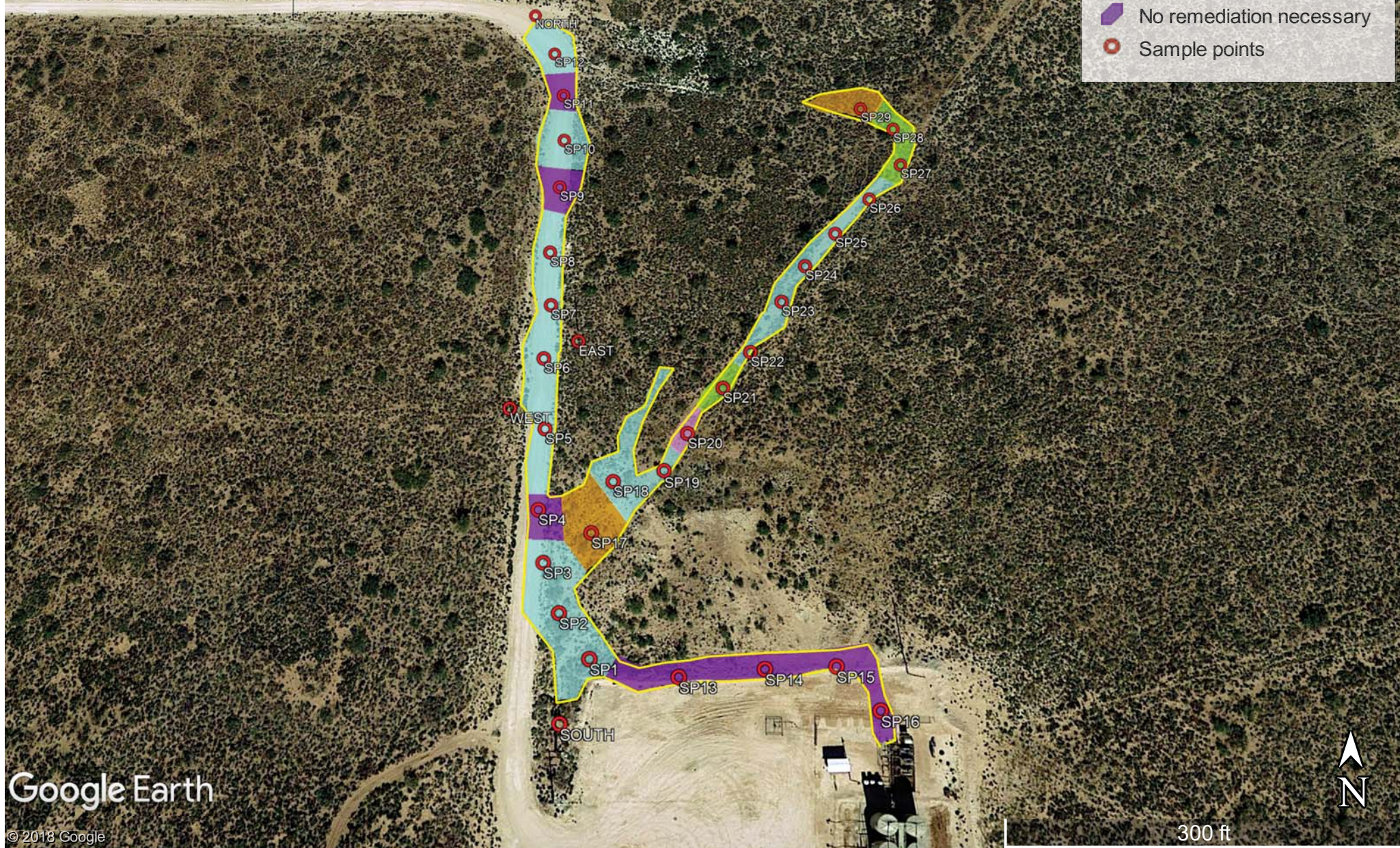
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Oxy, Red Tank 35 3 SWD Facility

Leak date: 10/28/18
Lea County, NM
API# 30-025-33149; 1RP-5284

- Legend**
- 1 ft Excavation
 - 2 ft Excavation
 - 3 ft Excavation
 - 4 ft Excavation
 - Leak Area
 - No remediation necessary
 - Sample points

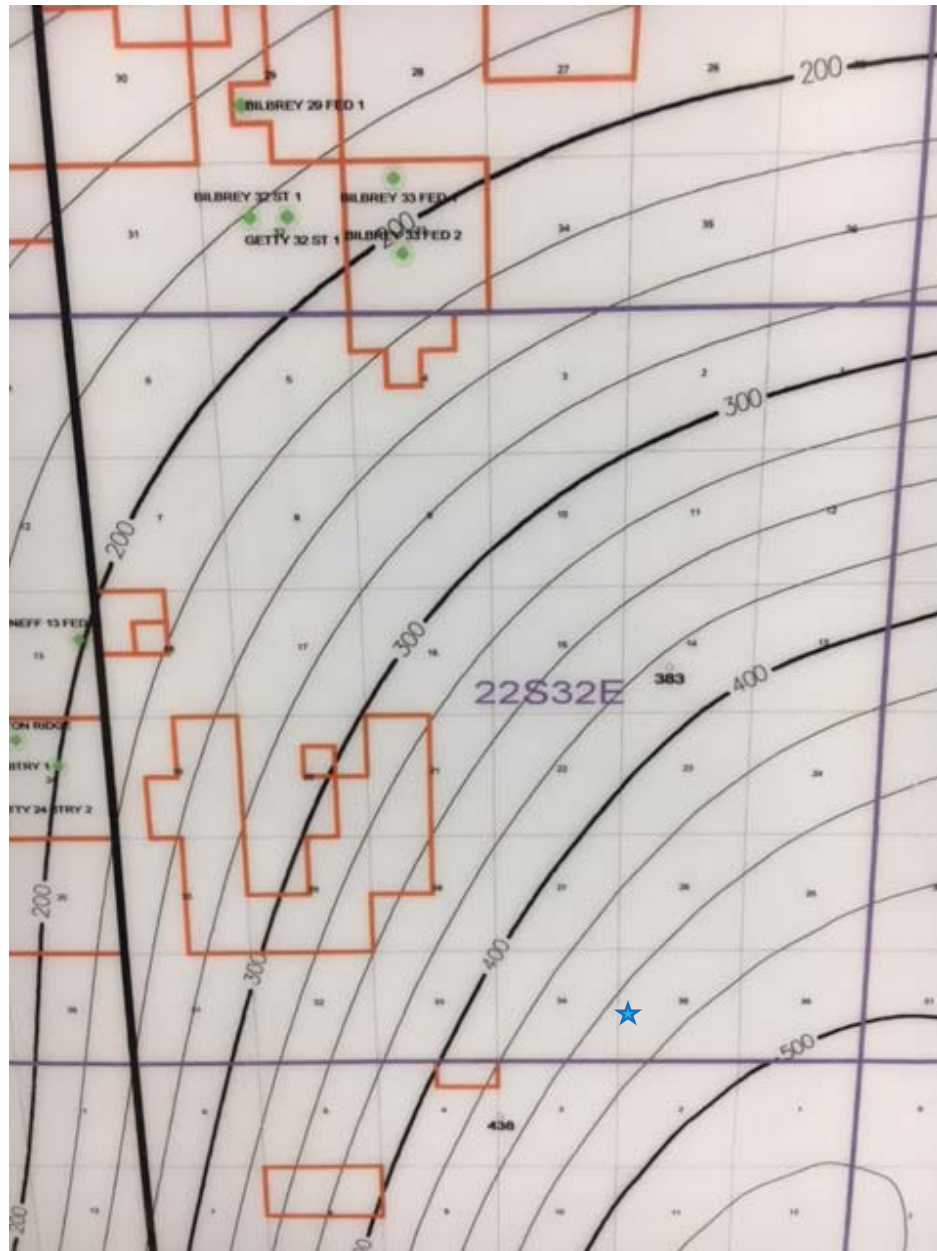


Oxy, Red Tank 35 3 SWD Facility

Sample points

SP1, N 32.34743 W-103.65127	SP26, N 32.34868 W-103.65046
SP2, N 32.34754 W-103.65135	SP27, N 32.34880 W-103.65035
SP3, N 32.34766 W-103.65140	SP28, N 32.34892 W-103.65037
SP4, N 32.34779 W-103.65142	SP29, N 32.34900 W-103.65047
SP5, N 32.34800 W-103.65142	NORTH, N 32.34933 W-103.65154
SP6, N 32.34820 W-103.65144	SOUTH, N 32.34729 W-103.65134
SP7, N 32.34835 W-103.65143	EAST, N 32.34825 W-103.65134
SP8, N 32.34851 W-103.65144	WEST, N 32.34806 W-103.65152
SP9, N 32.34872 W-103.65142	
SP10, N 32.34888 W-103.65142	
SP11, N 32.34904 W-103.65143	
SP12, N 32.34919 W-103.65147	
SP13, N 32.34739 W-103.65104	
SP14, N 32.34741 W-103.65082	
SP15, N 32.34741 W-103.65063	
SP16, N 32.34731 W-103.65053	
SP17, N 32.34773 W-103.65128	
SP18, N 32.34786 W-103.65122	
SP19, N 32.34789 W-103.65108	
SP20, N 32.34799 W-103.65102	
SP21, N 32.34811 W-103.65092	
SP22, N 32.34822 W-103.65084	
SP23, N 32.34836 W-103.65074	
SP24, N 32.34847 W-103.65067	
SP25, N 32.34857 W-103.65057	

Oxy, Red Tank 35 Federal #3 SWD Btry
U/L L, Section 35, T22S, R32E
Groundwater: 450'






USGS Home
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hideNews 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 =

- 321950103400601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321950103400601 23S.32E.03.31110

Lea County, New Mexico

Latitude 32°19'50", Longitude 103°40'06" NAD27

Land-surface elevation 3,668 feet above NAVD88

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1972-09-13		D	204.18				2		U	
1977-03-10		D	213.85				2		U	
1981-03-26		D	197.34				2		U	
1986-04-16		D	196.65				2		U	

Explanation

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

Section	Code	Description
---------	------	-------------

[Questions about sites/data?](#)
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Title: Groundwater for New Mexico: Water Levels

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

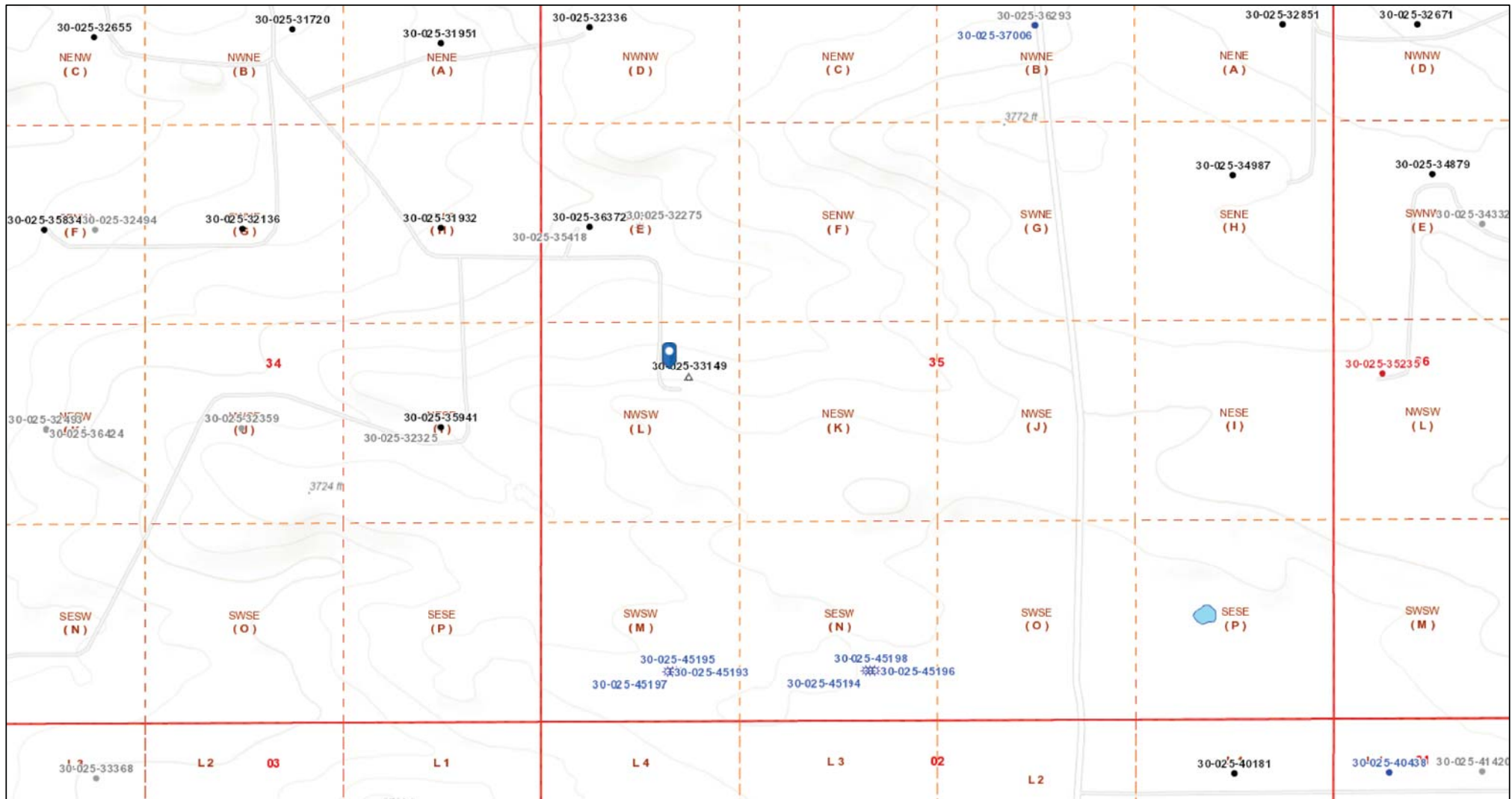
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-11-16 18:11:07 EST

0.51 0.44 nadww01



Red Tank 35 3 SWD Facility, Topo Map with water features



11/16/2018 4:03:23 PM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

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

Gas Active

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

Injection, Cancelled

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

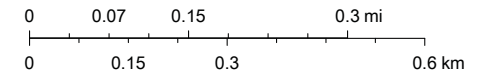
Oil, New

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

Salt Water Injection, Plugged

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

1:9,028







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

Oxy, Red Tank 35 3 SWD Facility

Leak date: 10/28/18
Lea County, NM

BLM CAVE KARST MAP

Legend

-  High potential
-  Low potential
-  Medium potential
-  Red Tank 35 3 SWD Facility

 Red Tank 35 3 SWD Facility

Jal Hwy

Google Earth

© 2018 Google



5 mi

National Flood Hazard Layer FIRMMette



Legend

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

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

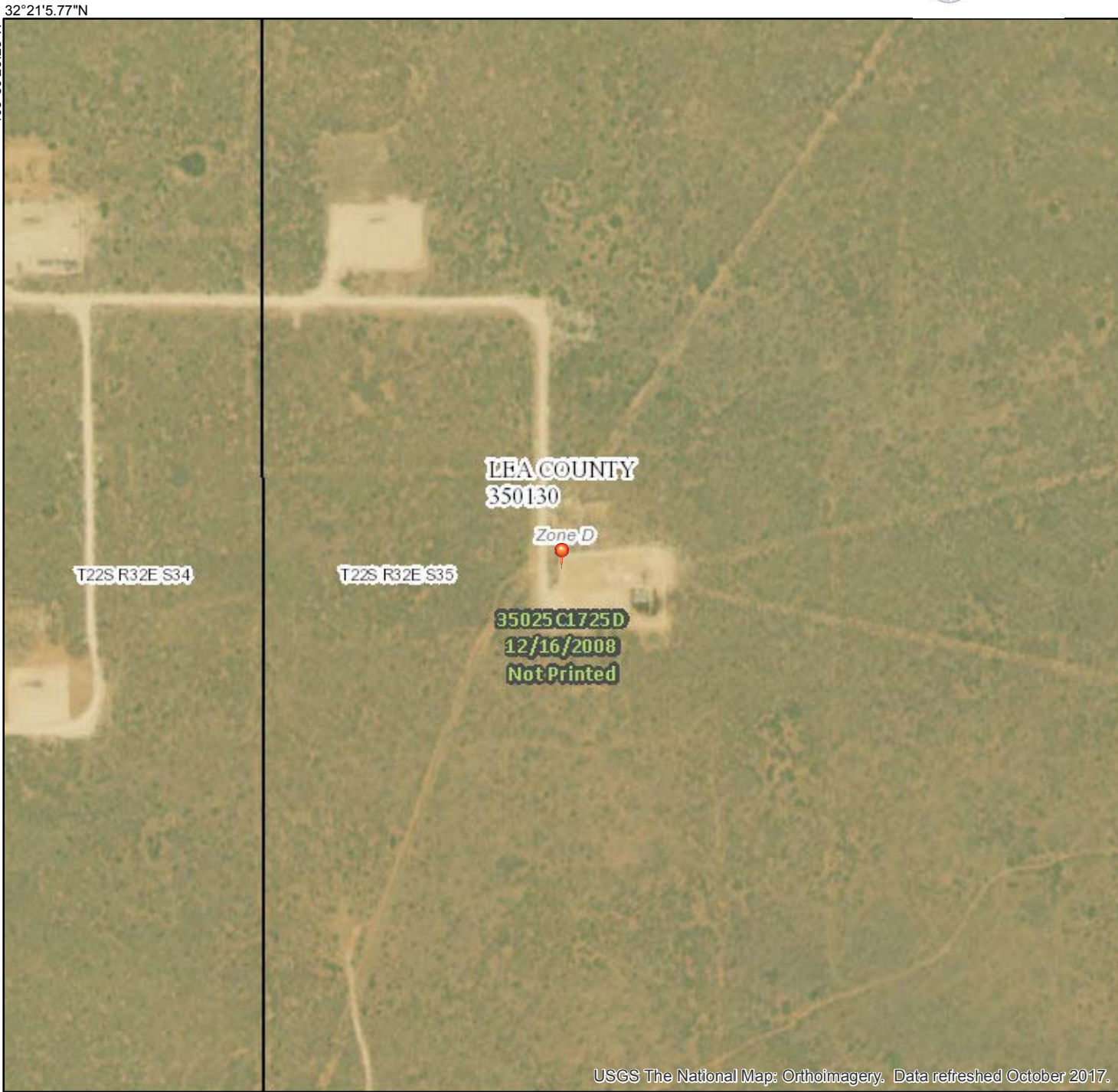


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/16/2018 at 6:19:37 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (10/28/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		18400	128
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		40400	32
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		46400	112
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		448	144
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		43600	48
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		28000	64
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		11200	192
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		3040	192
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (10/28/18)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		208	144
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'
Analyte	Method	Date	11/13/18	11/13/18
			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	SM4500Cl-B		3520	224
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP11 @ SURFACE	SP11 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		64	112
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP12 @ SURFACE	SP12 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		7840	32
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP13 @ SURFACE	SP13 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		368	144
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP14 @ SURFACE	SP14 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		256	160
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP15 @ SURFACE	SP15 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		224	144
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP16 @ SURFACE	SP16 @ 1'
Analyte	Method	Date	11/14/18	11/14/18
			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	SM4500Cl-B		192	128
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (10/28/18)

		Sample ID	SP17 @ SURFACE	SP17 @ 1'	SP17 @ 2'	SP17 @ 3'	SP17 @ 4'
Analyte	Method	Date	11/15/18	11/15/18	11/15/18	11/15/18	11/15/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		18400	2520	3400	528	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP18 @ SURFACE	SP18 @ 1'
Analyte	Method	Date	11/15/18	11/15/18
			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	SM4500Cl-B		21200	48
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP19 @ SURFACE	SP19 @ 1'
Analyte	Method	Date	11/15/18	11/15/18
			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	SM4500Cl-B		39200	80
GRO	TPH 8015M		10.8	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP20 @ SURFACE	SP20 @ 1'	SP20 @ 2'	SP20 @ 3'	SP20 @ 4'	SP20 @ 5'
Analyte	Method	Date	11/15/18	11/15/18	11/15/18	11/15/18	11/16/18	11/16/18
			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	SM4500Cl-B		14400	2880	10600	6300	<16.0	<16.0
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

		Sample ID	SP21 @ SURFACE	SP21 @ 1'	SP21 @ 2'	SP21 @ 3'
Analyte	Method	Date	11/15/18	11/15/18	11/15/18	11/15/18
			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	SM4500Cl-B		14200	1380	336	192
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample ID	SP22 @ SURFACE	SP22 @ 1'
Analyte	Method	Date	11/16/18	11/16/18
			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	SM4500Cl-B		9400	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP23 @ SURFACE	SP23 @ 1'
Analyte	Method	Date	11/16/18	11/16/18
			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	SM4500Cl-B		13600	16
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		12.2	n/a

		Sample ID	SP24 @ SURFACE	SP24 @ 1'
Analyte	Method	Date	11/16/18	11/16/18
			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	SM4500Cl-B		13200	16
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

Laboratory Analytical Results Summary
Red Tank 35 3 SWD Facility (10/28/18)

		Sample ID	SP25 @ SURFACE	SP25 @ 1'
Analyte	Method	Date	11/16/18	11/16/18
			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	SM4500Cl-B		8400	16
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		<10.0	n/a

		Sample ID	SP26 @ SURFACE	SP26 @ 1'
Analyte	Method	Date	11/16/18	11/16/18
			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	SM4500Cl-B		5500	<16.0
GRO	TPH 8015M		<10.0	n/a
DRO	TPH 8015M		<10.0	n/a
EXT DRO	TPH 8015M		12.2	n/a

		Sample ID	SP27 @ SURFACE	SP27 @ 1'	SP27 @ 2'
Analyte	Method	Date	11/16/18	11/16/18	11/16/18
			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	SM4500Cl-B		12000	5200	<16.0
GRO	TPH 8015M		12.6	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

		Sample ID	SP28 @ SURFACE	SP28 @ 1'	SP28 @ 2'
Analyte	Method	Date	11/16/18	11/16/18	11/16/18
			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	SM4500Cl-B		24800	12000	<16.0
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

		Sample ID	SP29 @ SURFACE	SP29 @ 1'	SP29 @ 2'	SP29 @ 3'	SP29 @ 4'
Analyte	Method	Date	11/16/18	11/16/18	11/16/18	11/16/18	11/16/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.221	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		25600	7700	9800	<16.0	<16.0
GRO	TPH 8015M		10.5	n/a	n/a	n/a	n/a
DRO	TPH 8015M		206	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		45.8	n/a	n/a	n/a	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	SOUTH @ SURFACE	WEST @ SURFACE
Analyte	Method	Date	11/14/18	11/14/18	11/14/18	11/14/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16	16	16	16
GRO	TPH 8015M		12.9	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

November 29, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35 3 SWD FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 11/20/18 16:30.

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:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H803407-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.01	100	2.00	2.22	
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 74.5 % 37.6-147

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*=Accredited Analyte

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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: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H803407-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/27/2018	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:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H803407-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2018	ND	2.01	100	2.00	2.22		
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48		
Total BTEx	<0.300	0.300	11/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	40400	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 82.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.0 % 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: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H803407-04)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2018	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: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H803407-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.01	100	2.00	2.22	
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48	
Total BTEx	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

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Cliff Brunson
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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H803407-06)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/27/2018	ND	432	108	400	3.77	

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H803407-07)

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	11/27/2018	ND	2.01	100	2.00	2.22	
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48	
Total BTEx	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 75.6 % 37.6-147

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H803407-08)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/27/2018	ND	432	108	400	0.00	

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Received:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 5 @ SURFACE (H803407-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2018	ND	2.01	100	2.00	2.22		
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48		
Total BTEx	<0.300	0.300	11/27/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	43600	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H803407-10)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/27/2018	ND	432	108	400	0.00	

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Received:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 6 @ SURFACE (H803407-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/27/2018	ND	2.01	100	2.00	2.22		
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48		
Total BTEx	<0.300	0.300	11/27/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H803407-12)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/27/2018	ND	432	108	400	0.00	

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 7 @ SURFACE (H803407-13)

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	11/27/2018	ND	2.01	100	2.00	2.22		
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48		
Total BTEx	<0.300	0.300	11/27/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11200	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 75.5 % 37.6-147

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Fax To: (575) 397-0397

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 @ 1' (H803407-14)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/27/2018	ND	432	108	400	0.00	

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 8 @ SURFACE (H803407-15)

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	11/27/2018	ND	2.01	100	2.00	2.22		
Toluene*	<0.050	0.050	11/27/2018	ND	1.95	97.6	2.00	2.47		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	1.89	94.3	2.00	3.14		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	5.68	94.7	6.00	3.48		
Total BTEx	<0.300	0.300	11/27/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 78.1 % 41-142

Surrogate: 1-Chlorooctadecane 74.0 % 37.6-147

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 8 @ 1' (H803407-16)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/27/2018	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:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 9 @ SURFACE (H803407-17)

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	11/27/2018	ND	2.18	109	2.00	0.170		
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32		
Total BTEx	<0.300	0.300	11/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 76.9 % 41-142

Surrogate: 1-Chlorooctadecane 72.1 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 9 @ 1' (H803407-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/27/2018	ND	432	108	400	0.00		

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Received:	11/20/2018	Sampling Date:	11/13/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 10 @ SURFACE (H803407-19)

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	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTEx	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/13/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 10 @ 1' (H803407-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/27/2018	ND	432	108	400	0.00		

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Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 11 @ SURFACE (H803407-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 82.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147

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Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/14/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 11 @ 1' (H803407-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/27/2018	ND	432	108	400	0.00		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 12 @ SURFACE (H803407-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 83.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 12 @ 1' (H803407-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/27/2018	ND	432	108	400	0.00		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 13 @ SURFACE (H803407-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/27/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 74.3 % 41-142

Surrogate: 1-Chlorooctadecane 68.4 % 37.6-147

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Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 13 @ 1' (H803407-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/27/2018	ND	432	108	400	0.00		

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Fax To: (575) 397-0397

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/14/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 14 @ SURFACE (H803407-27)

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	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTEx	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/28/2018	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 74.2 % 41-142

Surrogate: 1-Chlorooctadecane 68.7 % 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:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 14 @ 1' (H803407-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/28/2018	ND	448	112	400	0.00		

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

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 15 @ SURFACE (H803407-29)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/28/2018	ND	448	112	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 74.7 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 15 @ 1' (H803407-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/28/2018	ND	448	112	400	0.00		

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

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/14/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 16 @ SURFACE (H803407-31)

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	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTEx	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/28/2018	ND	448	112	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 72.0 % 41-142

Surrogate: 1-Chlorooctadecane 68.9 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 16 @ 1' (H803407-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/28/2018	ND	448	112	400	0.00		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 17 @ SURFACE (H803407-33)

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	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTEx	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	11/28/2018	ND	448	112	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 17 @ 1' (H803407-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	11/28/2018	ND	448	112	400	0.00		

Sample ID: SP 17 @ 2' (H803407-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	11/28/2018	ND	448	112	400	0.00	

Sample ID: SP 17 @ 3' (H803407-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/28/2018	ND	448	112	400	0.00		

Sample ID: SP 17 @ 4' (H803407-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	448	112	400	0.00		

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

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 18 @ SURFACE (H803407-38)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	11/28/2018	ND	448	112	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 76.2 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

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

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 18 @ 1' (H803407-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/28/2018	ND	448	112	400	0.00		

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Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 19 @ SURFACE (H803407-40)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39200	16.0	11/28/2018	ND	448	112	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*	10.8	10.0	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 80.0 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Fax To: (575) 397-0397

Received: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 19 @ 1' (H803407-41)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/28/2018	ND	448	112	400	0.00		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 20 @ SURFACE (H803407-42)

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	11/27/2018	ND	2.18	109	2.00	0.170		
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56		
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32		
Total BTEX	<0.300	0.300	11/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	11/28/2018	ND	448	112	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	11/25/2018	ND	206	103	200	1.83	
DRO >C10-C28*	<10.0	10.0	11/25/2018	ND	232	116	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	11/25/2018	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Analytical Results For:

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

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 20 @ 1' (H803407-43)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	11/28/2018	ND	448	112	400	0.00		

Sample ID: SP 20 @ 2' (H803407-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	11/28/2018	ND	448	112	400	0.00	

Sample ID: SP 20 @ 3' (H803407-45)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6300	16.0	11/28/2018	ND	448	112	400	0.00	

Sample ID: SP 20 @ 4' (H803407-46)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	448	112	400	0.00		

Sample ID: SP 20 @ 5' (H803407-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	448	112	400	0.00		

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

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 21 @ SURFACE (H803407-48)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/15/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 21 @ 1' (H803407-49)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	11/28/2018	ND	432	108	400	3.77		

Sample ID: SP 21 @ 2' (H803407-50)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/28/2018	ND	432	108	400	3.77	

Sample ID: SP 21 @ 3' (H803407-51)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/28/2018	ND	432	108	400	3.77	

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 22 @ SURFACE (H803407-52)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9400	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 81.5 % 37.6-147

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Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 22 @ 1' (H803407-53)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 23 @ SURFACE (H803407-54)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	12.2	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.8 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 23 @ 1' (H803407-55)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 24 @ SURFACE (H803407-56)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 24 @ 1' (H803407-57)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 25 @ SURFACE (H803407-58)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 83.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 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:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 25 @ 1' (H803407-59)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Cliff Brunson
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Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 26 @ SURFACE (H803407-60)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5500	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	12.2	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 26 @ 1' (H803407-61)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 27 @ SURFACE (H803407-62)

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	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTEx	<0.300	0.300	11/27/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	11/28/2018	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*	12.6	10.0	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 80.8 % 41-142

Surrogate: 1-Chlorooctadecane 79.4 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 27 @ 1' (H803407-63)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	11/28/2018	ND	432	108	400	3.77		

Sample ID: SP 27 @ 2' (H803407-64)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 28 @ SURFACE (H803407-65)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/27/2018	ND	2.18	109	2.00	0.170	
Toluene*	<0.050	0.050	11/27/2018	ND	2.20	110	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/27/2018	ND	2.14	107	2.00	2.56	
Total Xylenes*	<0.150	0.150	11/27/2018	ND	6.27	105	6.00	2.32	
Total BTX	<0.300	0.300	11/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 28 @ 1' (H803407-66)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	11/28/2018	ND	432	108	400	3.77		

Sample ID: SP 28 @ 2' (H803407-67)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	3.77		

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 29 @ SURFACE (H803407-68)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/26/2018	ND	2.11	105	2.00	7.54	
Toluene*	<0.050	0.050	11/26/2018	ND	2.12	106	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/26/2018	ND	2.09	105	2.00	7.17	
Total Xylenes*	0.221	0.150	11/26/2018	ND	6.13	102	6.00	6.82	
Total BTX	<0.300	0.300	11/26/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	11/28/2018	ND	432	108	400	0.00	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*	10.5	10.0	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	206	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	45.8	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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

Received:	11/20/2018	Sampling Date:	11/16/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SP 29 @ 1' (H803407-69)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7700	16.0	11/28/2018	ND	432	108	400	0.00		

Sample ID: SP 29 @ 2' (H803407-70)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9800	16.0	11/28/2018	ND	432	108	400	0.00		

Sample ID: SP 29 @ 3' (H803407-71)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	0.00		

Sample ID: SP 29 @ 4' (H803407-72)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/28/2018	ND	432	108	400	0.00		

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Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: NORTH @ SURFACE (H803407-73)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/26/2018	ND	2.11	105	2.00	7.54	
Toluene*	<0.050	0.050	11/26/2018	ND	2.12	106	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/26/2018	ND	2.09	105	2.00	7.17	
Total Xylenes*	<0.150	0.150	11/26/2018	ND	6.13	102	6.00	6.82	
Total BTX	<0.300	0.300	11/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/28/2018	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*	12.9	10.0	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 82.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Fax To: (575) 397-0397

Received:	11/20/2018	Sampling Date:	11/14/2018
Reported:	11/29/2018	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	(10/28/18)	Sample Received By:	Jodi Henson
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: EAST @ SURFACE (H803407-74)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/26/2018	ND	2.11	105	2.00	7.54		
Toluene*	<0.050	0.050	11/26/2018	ND	2.12	106	2.00	7.84		
Ethylbenzene*	<0.050	0.050	11/26/2018	ND	2.09	105	2.00	7.17		
Total Xylenes*	<0.150	0.150	11/26/2018	ND	6.13	102	6.00	6.82		
Total BTX	<0.300	0.300	11/26/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.3 % 37.6-147

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*=Accredited Analyte

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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: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/14/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SOUTH @ SURFACE (H803407-75)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/26/2018	ND	2.11	105	2.00	7.54	
Toluene*	<0.050	0.050	11/26/2018	ND	2.12	106	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/26/2018	ND	2.09	105	2.00	7.17	
Total Xylenes*	<0.150	0.150	11/26/2018	ND	6.13	102	6.00	6.82	
Total BTX	<0.300	0.300	11/26/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 77.3 % 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: 11/20/2018
Reported: 11/29/2018
Project Name: RED TANK 35 3 SWD FACILITY
Project Number: (10/28/18)
Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/14/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: WEST @ SURFACE (H803407-76)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/26/2018	ND	2.11	105	2.00	7.54	
Toluene*	<0.050	0.050	11/26/2018	ND	2.12	106	2.00	7.84	
Ethylbenzene*	<0.050	0.050	11/26/2018	ND	2.09	105	2.00	7.17	
Total Xylenes*	<0.150	0.150	11/26/2018	ND	6.13	102	6.00	6.82	
Total BTX	<0.300	0.300	11/26/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/28/2018	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	11/26/2018	ND	219	109	200	1.32	
DRO >C10-C28*	<10.0	10.0	11/26/2018	ND	243	121	200	4.99	
EXT DRO >C28-C36	<10.0	10.0	11/26/2018	ND					

Surrogate: 1-Chlorooctane 71.4 % 41-142

Surrogate: 1-Chlorooctadecane 65.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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



Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

[illegible]

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Relinquished By: <i>Price Brunson</i>		Date: <i>11/16/18</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>5:30pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>		Date: <i>11-20-18</i>	Received By: <i>[Signature]</i>	REMARKS:	
Delivered By: (Circle One)		Time: <i>16:30</i>			
Sampler - UPS - Bus - Other: <i>-1.8°C / #97</i>		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>		

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

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;"> <div style="margin-bottom: 10px;">Company: <i>Oxy</i></div> <div style="margin-bottom: 10px;">Attn: <i>W. Dittich</i></div> <div style="margin-bottom: 10px;">Address:</div> <div style="margin-bottom: 10px;">City:</div> <div style="margin-bottom: 10px;">State: Zip:</div> <div style="margin-bottom: 10px;">Phone #:</div> <div style="margin-bottom: 10px;">Fax #:</div> </div>																			
Address: P.O. Box 805																											
City: Hobbs State: NM Zip: 88241																											
Phone #: 575-397-6388 Fax #: 575-397-0397																											
Project #: Project Owner: Oxy																											
Project Name: Red Tank 35 3 SWD Facility (10/28/18)																											
Project Location: Lea County, NM																											
Sampler Name: Price Brunson																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX				PRESERV.		SAMPLING															
H803407																											
11 SP6 @ SURFACE		G		1																							
12 SP6 @ 1'		G		1																							
13 SP7 @ SURFACE		G		1																							
14 SP7 @ 1'		G		1																							
15 SP8 @ SURFACE		G		1																							
16 SP8 @ 1'		G		1																							
17 SP9 @ SURFACE		G		1																							
18 SP9 @ 1'		G		1																							
19 SP10 @ SURFACE		G		1																							
20 SP10 @ 1'		G		1																							

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Relinquished By:

Relinquished By: Price Brownson		Date: 11/16/18	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 5:30pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]		Date: 11-20-18	Received By: Jodi Henson	REMARKS:	
		Time: 16:30			
Delivered By: (Circle One)			Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: -1.80C/ #97			Cool Intact		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <u>Price Baunson</u>		Date: <u>11/16/08</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>5:30pm</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>		Date: <u>11-20-08</u>	Received By: <u>[Signature]</u>	REMARKS:	
Time: <u>[Signature]</u>					
Delivered By: (Circle One) <u>-1.8°C / #97</u>		Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
			<u>[Signature]</u>		

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																	
Address: P.O. Box 805				Company: <i>Oxy</i>																	
City: Hobbs		State: NM Zip: 88241		Attn: <i>W. Strick</i>																	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																	
Project #:		Project Owner: Oxy		City:																	
Project Name: Red Tank 35 3 SWD Facility (10/28/18)				State: Zip:																	
Project Location: Lea County, NM				Phone #:																	
Sampler Name: Price Brunson				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
<i>H803407</i>																					
<i>31</i>	SP16 @ SURFACE	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		11/14/18	11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>32</i>	SP16 @ 1'	<i>G</i>	<i>1</i>										11/14/18	12:00 PM	<input checked="" type="checkbox"/>						
<i>33</i>	SP17 @ SURFACE	<i>G</i>	<i>1</i>										11/15/18	8:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>34</i>	SP17 @ 1'	<i>G</i>	<i>1</i>										11/15/18	9:00 AM	<input checked="" type="checkbox"/>						
<i>35</i>	SP17 @ 2'	<i>G</i>	<i>1</i>										11/15/18	9:30 AM	<input checked="" type="checkbox"/>						
<i>36</i>	SP17 @ 3'	<i>G</i>	<i>1</i>										11/15/18	9:45 AM	<input checked="" type="checkbox"/>						
<i>37</i>	SP17 @ 4'	<i>G</i>	<i>1</i>										11/15/18	10:10 AM	<input checked="" type="checkbox"/>						
<i>38</i>	SP18 @ SURFACE	<i>G</i>	<i>1</i>										11/15/18	10:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<i>39</i>	SP18 @ 1'	<i>G</i>	<i>1</i>										11/15/18	10:50 AM	<input checked="" type="checkbox"/>						
<i>40</i>	SP19 @ SURFACE	<i>G</i>	<i>1</i>										11/15/18	11:10 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

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Relinquished By:	Date: <i>11/16/18</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Price Brunson</i>	Time: <i>5:30pm</i>	<i>✓ H. P. 15</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11-20-18</i>	Received By:	REMARKS:	
<i>✓ H. P. 15</i>	Time: <i>10:30</i>	<i>Wendi Hanson</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: <i>-1.80 / #97</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>W</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		BILL TO										ANALYSIS REQUEST																							
Company Name: BBC International, Inc.										P.O. #:																									
Project Manager: Cliff Brunson										Company: Oxy																									
Address: P.O. Box 805										Attn: W. Strick																									
City: Hobbs					State: NM Zip: 88241					Address:																									
Phone #: 575-397-6388					Fax #: 575-397-0397					City:																									
Project #:					Project Owner: Oxy					State: Zip:																									
Project Name: Red Tank 35 3 SWD Facility (10/28/18)										Phone #:																									
Project Location: Lea County, NM										Fax #:																									
Sampler Name: Price Brunson																																			
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																							
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
H803407				G		1		✓										✓				11/15/18		11:30 AM		✓									
41		SP19 @ 1'		G		1		✓										✓				11/15/18		11:45 AM		✓ ✓ ✓									
42		SP20 @ SURFACE		G		1		✓										✓				11/15/18		12:00 PM		✓									
43		SP20 @ 1'		G		1		✓										✓				11/15/18		12:15 PM		✓									
44		SP20 @ 2'		G		1		✓										✓				11/15/18		1:10 PM		✓									
45		SP20 @ 3'		G		1		✓										✓				11/16/18		3:30 PM		✓									
46		SP20 @ 4'		G		1		✓										✓				11/16/18		3:50 PM		✓									
47		SP20 @ 5'		G		1		✓										✓				11/15/18		1:45 PM		✓ ✓ ✓									
48		SP21 @ SURFACE		G		1		✓										✓				11/15/18		2:00 PM		✓									
49		SP21 @ 1'		G		1		✓										✓				11/15/18		2:20 PM		✓									
50		SP21 @ 2'		G		1		✓										✓				11/15/18		2:20 PM		✓									
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Relinquished By: Price Brunson										Date: 11/16/18					Received By: [Signature]					Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No					Add'l Phone #:										
Relinquished By: [Signature]										Time: 5:30 pm					Received By: [Signature]					Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No					Add'l Fax #:										
Delivered By: (Circle One)										Date: 11/20/18					Time: 16:30					Sample Condition					CHECKED BY: [Signature]										
Sampler - UPS - Bus - Other: -1.80/#97										Cool					Intact					Yes <input type="checkbox"/> No <input type="checkbox"/>					Yes <input type="checkbox"/> No <input type="checkbox"/>										

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(505) 393-2326 FAX (505) 393-2476

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Oxy Project Name: Red Tank 35 3 SWD Facility (10/28/18) Project Location: Lea County, NM Sampler Name: Price Brunson										BILL TO P.O. #: Company: Oxy Attn: W. Stofrich Address: City: State: Zip: Phone #: Fax #:										ANALYSIS REQUEST									
FOR LAB USE ONLY Lab I.D. Sample I.D.										MATRIX PRESERV. SAMPLING																			
(GRAB OR COMPI. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										DATE TIME																			
H803407										11/15/18 2:50 PM																			
51 SP21 @ 3'										11/16/18 8:30 AM																			
52 SP22 @ SURFACE										11/16/18 9:00 AM																			
53 SP22 @ 1'										11/16/18 9:20 AM																			
54 SP23 @ SURFACE										11/16/18 9:40 AM																			
55 SP23 @ 1'										11/16/18 10:08 AM																			
56 SP24 @ SURFACE										11/16/18 10:20 AM																			
57 SP24 @ 1'										11/16/18 10:35 AM																			
58 SP25 @ SURFACE										11/16/18 10:50 AM																			
59 SP25 @ 1'										11/16/18 11:15 AM																			
60 SP26 @ SURFACE																													

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Relinquished By: <i>Pire Brunson</i>		Date: <i>11/16/08</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>5:30pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>		Date: <i>11-20-08</i>	Received By: <i>Jodi Henson</i>	REMARKS:	
		Time: <i>16:30</i>			
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: <i>-1.82/#97</i>			Cool Intact	(Initials)	
			<input type="checkbox"/> Yes <input type="checkbox"/> Yes	<i>[Signature]</i>	
			<input type="checkbox"/> No <input type="checkbox"/> No		

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**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;"> <div style="margin-bottom: 10px;">Company: <i>Oxy</i></div> <div style="margin-bottom: 10px;">Attn: <i>W. Brunson</i></div> <div style="margin-bottom: 10px;">Address:</div> <div style="margin-bottom: 10px;">City:</div> <div style="margin-bottom: 10px;">State: Zip:</div> <div style="margin-bottom: 10px;">Phone #:</div> <div style="margin-bottom: 10px;">Fax #:</div> </div>																							
Address: P.O. Box 805				Company:																											
City: Hobbs State: NM Zip: 88241				Attn:																											
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																											
Project #: Project Owner: Oxy				City:																											
Project Name: Red Tank 35 3 SWD Facility (10/28/18)				State: Zip:																											
Project Location: Lea County, NM				Phone #:																											
Sampler Name: Price Brunson				Fax #:																											
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																			
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME																	
<i>H803407</i>																															
<i>61</i>	SP26 @ 1'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		11/16/18	11:30 AM	<input checked="" type="checkbox"/>																
<i>62</i>	SP27 @ SURFACE												11/16/18	11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>63</i>	SP27 @ 1'												11/16/18	12:00 PM	<input checked="" type="checkbox"/>																
<i>64</i>	SP27 @ 2'												11/16/18	12:20 PM	<input checked="" type="checkbox"/>																
<i>65</i>	SP28 @ SURFACE												11/16/18	1:10 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>66</i>	SP28 @ 1'												11/16/18	1:30 PM	<input checked="" type="checkbox"/>																
<i>67</i>	SP28 @ 2'												11/16/18	1:45 PM	<input checked="" type="checkbox"/>																
<i>68</i>	SP29 @ SURFACE												11/16/18	2:00 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<i>69</i>	SP29 @ 1'												11/16/18	2:20 PM	<input checked="" type="checkbox"/>																
<i>70</i>	SP29 @ 2'												11/16/18	2:45 PM	<input checked="" type="checkbox"/>																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <i>11/16/18</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Price Brunson</i>	Time: <i>5:30pm</i>	<i>HFDD</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11-20-18</i>	Received By:	REMARKS:	
<i>HFDD</i>	Time:	<i>Jodi Henson</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>-1.80 / #97</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) <i>JA</i>		

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CARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

8

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company: <i>Oxy</i>															
City: Hobbs		State: NM Zip: 88241		Attn: <i>W. D. Strick</i>															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:															
Project #:		Project Owner: Oxy		City:															
Project Name: Red Tank 35 3 SWD Facility (10/28/18)				State: Zip:															
Project Location: Lea County, NM				Phone #:															
Sampler Name: Price Brunson				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		<i>CL</i> <i>BTX</i> <i>TPH EXT</i>							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					OTHER :	DATE	TIME	
<i>H803407</i>																			
<i>71</i>	SP29 @ 3'	<i>6</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							11/16/18	3:00 PM	
<i>72</i>	SP29 @ 4'					<i>✓</i>				<i>✓</i>							11/16/18	3:20 PM	
<i>73</i>	NORTH @ SURFACE					<i>✓</i>				<i>✓</i>							11/14/18	12:20 PM	
<i>74</i>	EAST @ SURFACE					<i>✓</i>				<i>✓</i>							11/14/18	12:35 PM	
<i>75</i>	SOUTH @ SURFACE					<i>✓</i>				<i>✓</i>							11/14/18	12:50 PM	
<i>76</i>	WEST @ SURFACE					<i>✓</i>				<i>✓</i>			11/14/18	1:10 PM					
<i>KAP 11/14/18</i>																			

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Relinquished By:	Date: <i>11-16-18</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Price Brunson</i>	Time: <i>5:30</i>	<i>V. H. O. S.</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>11-20-18</i>	Received By:	REMARKS:	
<i>V. H. O. S.</i>	Time:	<i>Jodi Munson</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>-1.8c/#97</i>	Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials) <i>JA</i>		

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