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E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDIATION WORKPLAN

OXY – HARROUN 9 1 CTB
(Leak Date: 1/14/19 & 1/21/19 & 1/23/19) LI2XX-190814-C-1410

RP # 2RP-5283 & 2RP-5284 & 2RP-5285

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5283 & 2RP-5284 & 2RP-5285.

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 – SP4 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP5 – SP7, and SP10 (PINK shade on diagram) will be excavated to a depth of 4 feet. Oxy is requesting a variance to place an impermeable liner in the bottom of the 4-foot excavation area. The leak area near SP8 – SP9 (GREEN shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP11 – SP13 will require zero remediation.

Bottom and sidewall confirmation samples will be collected every 100 feet except in the lined area.

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

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

Incident ID	
District RP	2RP-5283
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	52' _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

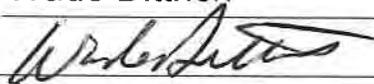
<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release <input type="checkbox"/> Boring or excavation logs <input type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody
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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	2RP-5283
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: 7-31-19
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5283
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.

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Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	2RP-5284
Facility ID	
Application ID	

Site Assessment/Characterization

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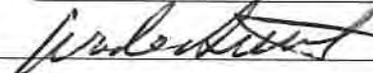
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Remediation Plan

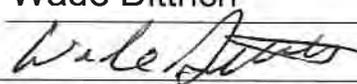
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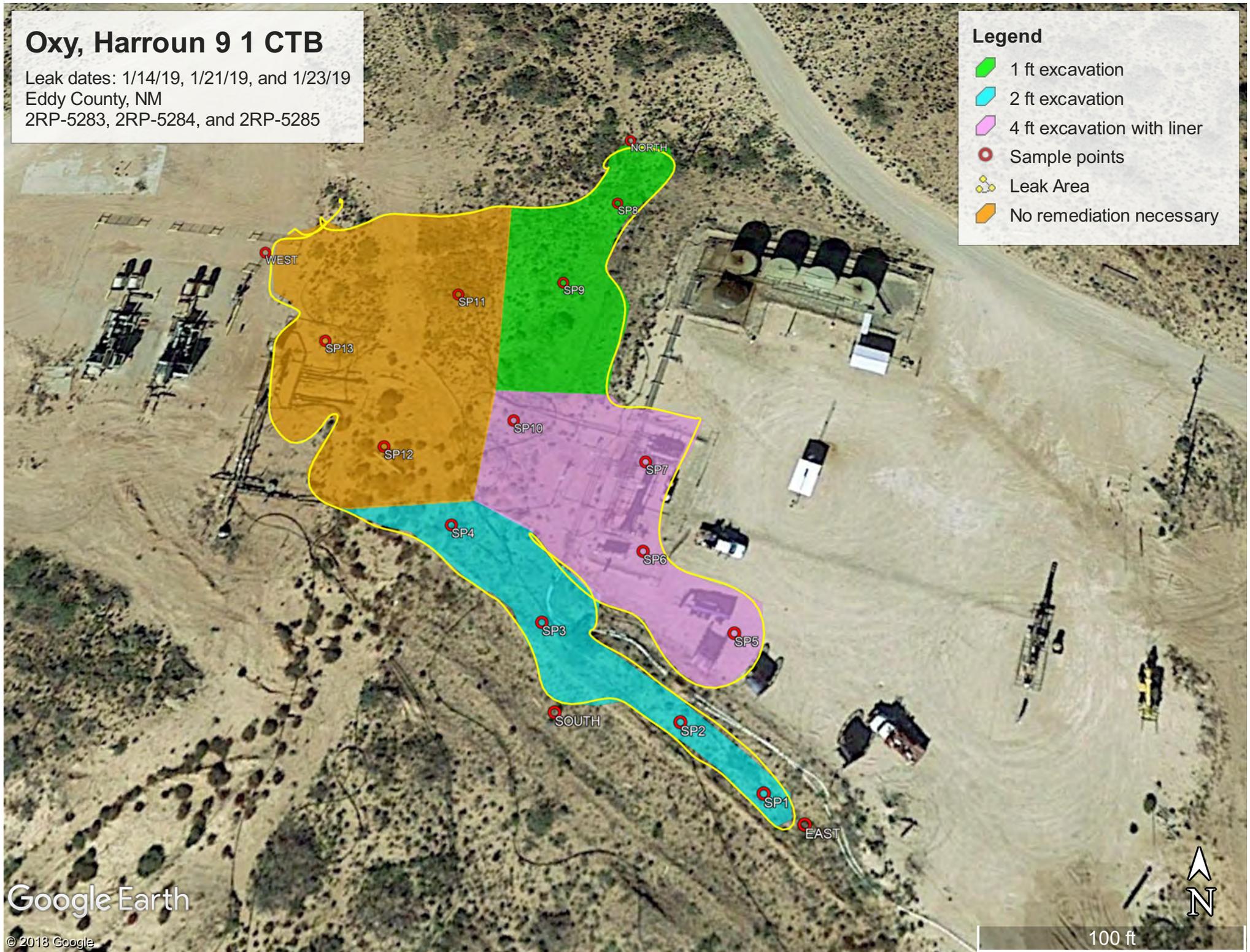
Signature: _____ Date: _____

Oxy, Harroun 9 1 CTB

Leak dates: 1/14/19, 1/21/19, and 1/23/19
Eddy County, NM
2RP-5283, 2RP-5284, and 2RP-5285

Legend

- 1 ft excavation
- 2 ft excavation
- 4 ft excavation with liner
- Sample points
- Leak Area
- No remediation necessary



Oxy, Harroun 9 1 CTB

Sample points

SP1, N 32.22613 W-103.98239

SP2, N 32.22621 W-103.98250

SP3, N 32.22633 W-103.98268

SP4, N 32.22645 W-103.98281

SP5, N 32.22631 W-103.98242

SP6, N 32.22641 W-103.98254

SP7, N 32.22653 W-103.98254

SP8, N 32.22693 W-103.98258

SP9, N 32.22680 W-103.98266

SP10, N 32.22659 W-103.98273

SP11, N 32.22678 W-103.98283

SP12, N 32.22656 W-103.98292

SP13, N 32.22671 W-103.98302

NORTH, N 32.22704 W-103.98256

SOUTH, N 32.22622 W-103.98266

EAST, N 32.22609 W-103.98234

WEST, N 32.22685 W-103.98313

Oxy, Harroun 9 1 CTB
U/L P, Section 9, T24S, R29E
Groundwater: 75'-100'





USGS Home
 Contact USGS
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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321355104012001

Minimum number of levels = 1

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

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico
 Latitude 32°13'55", Longitude 104°01'20" NAD27
 Land-surface elevation 2,983 feet above NAVD88
 The depth of the well is 160 feet below land surface.
 This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

Explanation

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

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

Title: Groundwater for New Mexico: Water Levels

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

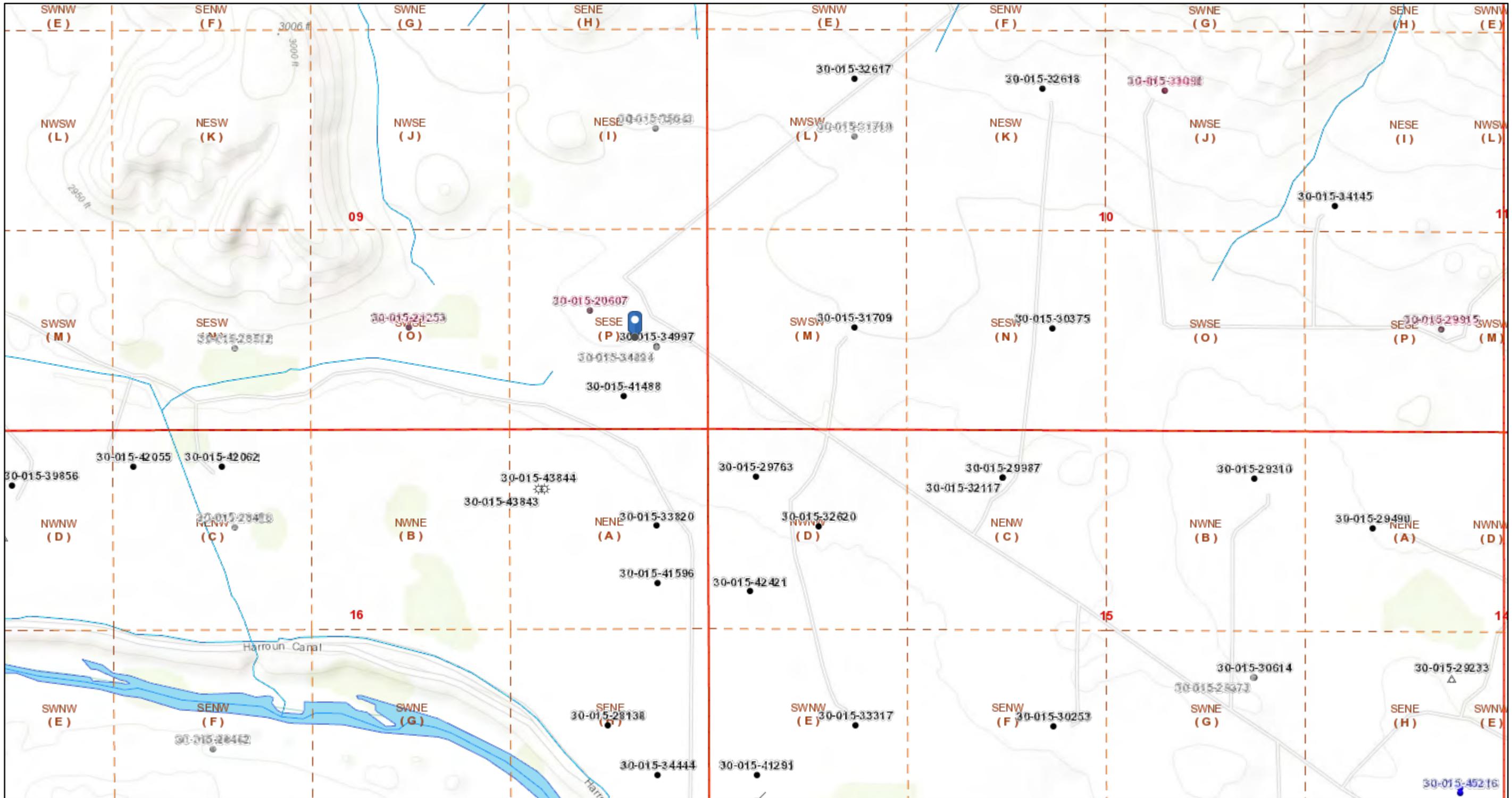


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-02-25 18:04:30 EST

0.66 0.63 nadww01

Harroun 9 1 CTB



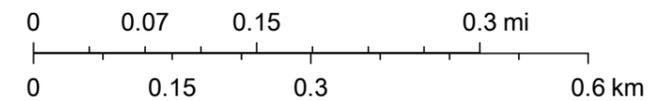
2/25/2019 3:55:58 PM

1:9,028

Well Locations - Small Scale

Well Locations - Large Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned
- Miscellaneous
- ⊛ CO2 Active
- ⊛ CO2 Cancelled
- ⊛ CO2 New
- ⊛ CO2 Plugged
- ⊛ CO2 Temporarily Abandoned
- ⊛ Gas Active
- ⊛ Gas, Cancelled, Never Drilled
- ⊛ Gas, New
- ⊛ Gas, Plugged
- ⊛ Gas, Temporarily Abandoned
- ⊛ Injection, Active
- ⊛ Injection, Cancelled
- ⊛ Injection, New
- ⊛ Injection, Plugged
- ⊛ Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- ⊛ Salt Water Injection, Active
- ⊛ Salt Water Injection, Cancelled
- ⊛ Salt Water Injection, New
- ⊛ Salt Water Injection, Plugged
- ⊛ Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged



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

Oxy, Harrou 9 1 CTB

Leak dates: 1/14/19, 1/21/19, 1/23/19
Eddy County, NM
AP# 30-015-34894

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Medium potential



National Flood Hazard Layer FIRMette



Legend

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

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

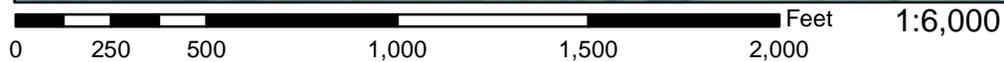
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/25/2019 at 6:12:33 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded 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.

32°13'50.83"N



USGS The National Map: Orthoimagery. Data refreshed October, 2017.



32°13'20.40"N

103°58'38.20"W

103°59'15.66"W

Laboratory Analytical Results Summary
 Harroun 9-1 CTB (1/14/19, 1/21/19, 1/23/19)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
			SURFACE	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		5.24	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		7.97	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		42.8	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		56	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		48	32	48	16	16	16	160	128
GRO	TPH 8015M		1450	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		21000	172	109	64.1	35	276	<10.0	<10.0
EXT DRO	TPH 8015M		3850	76	14.5	<10.0	<10.0	42.2	<10.0	<10.0

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
			SURFACE	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.355	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		3.95	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.79	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		19.3	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		26.4	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		112	16	32	16	32	16	48	64
GRO	TPH 8015M		521	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		16600	344	172	84.3	67.5	97.7	<10.0	<10.0
EXT DRO	TPH 8015M		4040	106	33.1	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'	SP3 @ 7'
			SURFACE	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19	2/27/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		3.98	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.56	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		29.7	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		38.3	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	64	32	16	32	32	64	16
GRO	TPH 8015M		887	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		16100	230	37.2	27.2	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		2640	40.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
			SURFACE	2/27/19	2/27/19	3/1/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		2.85	<0.200	<0.050	<0.050
Toluene	BTEX 8021B		24.6	2.78	<0.050	<0.050
Ethylbenzene	BTEX 8021B		10.7	4.87	<0.050	<0.050
Total Xylenes	BTEX 8021B		67	27.2	<0.150	<0.150
Total BTEX	BTEX 8021B		105	34.8	<0.300	<0.300
Chloride	SM4500Cl-B		416	80	32	48
GRO	TPH 8015M		1970	510	<10.0	<10.0
DRO	TPH 8015M		27500	2740	49.3	<10.0
EXT DRO	TPH 8015M		5320	507	17.3	<10.0

Laboratory Analytical Results Summary
Harroun 9-1 CTB (1/14/19, 1/21/19, 1/23/19)

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
			SURFACE			
Date			3/1/19	3/1/19	3/1/19	3/1/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		68000	1410	352	880
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		91.7	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		23.7	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP6 @	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'	SP6 @ 7'	SP6 @ 8'	SP6 @ 9'	SP6 @ 10'	SP6 @ 11'
			SURFACE											
Date			3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/5/19	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		1.13	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.976	<0.050	<0.050	<0.050	<0.050	0.058	<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		7.12	<0.150	<0.150	<0.150	<0.150	0.415	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		9.22	<0.300	<0.300	<0.300	<0.300	0.473	<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		18400	9920	8080	6800	6640	10400	9200	6560	6800	6320	48	48
GRO	TPH 8015M		163	<10.0	<10.0	<10.0	<10.0	10	<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		24400	396	61.9	24.9	26.7	1720	18	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		4050	60.8	<10.0	<10.0	<10.0	415	<10.0	<10.0	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID	SP7 @	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'	SP7 @ 6'	SP7 @ 7'	SP7 @ 8'	SP7 @ 9'	SP7 @ 10'
			SURFACE										
Date			3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/1/19	3/5/19	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Toluene	BTEX 8021B		0.58	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		0.9	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		7.22	0.205	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		8.7	<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	<0.300
Chloride	SM4500CI-B		13600	14800	11300	8800	7440	8800	5840	4000	2200	48	80
GRO	TPH 8015M		118	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0
DRO	TPH 8015M		9370	612	17.7	<10.0	<10.0	15.9	n/a	n/a	n/a	n/a	<10.0
EXT DRO	TPH 8015M		1330	226	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0

Analyte	Method	Sample ID	SP8 @	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
			SURFACE			
Date			3/4/19	3/4/19	3/4/19	3/4/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		1220	48	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1040	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		375	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
 Harroun 9-1 CTB (1/14/19, 1/21/19, 1/23/19)

Analyte	Method	Sample ID	SP9 @	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
			SURFACE			
Date			3/4/19	3/4/19	3/4/19	3/4/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.277	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		880	384	176	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		175	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		84.3	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP10 @	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'	SP10 @ 5'	SP10 @ 6'	SP10 @ 7'	SP10 @ 8'	SP10 @ 9'
			SURFACE									
Date			3/4/19	3/4/19	3/4/19	3/4/19	3/4/19	3/5/19	3/4/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		256	8960	6800	13600	11800	7600	8720	3280	64	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		22.3	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP11 @	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
			SURFACE			
Date			3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		48	48	96	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP12 @	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'
			SURFACE			
Date			3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		64	48	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
 Harroun 9-1 CTB (1/14/19, 1/21/19, 1/23/19)

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'	SP13 @ 3'
Analyte	Method	Date	3/5/19	3/5/19	3/5/19	3/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.169	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.063	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.35	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.582	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	32	80	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	3/4/19	3/4/19	3/4/19	3/4/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	32	48	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



March 15, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARROUN 9-1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/08/19 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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ SURFACE (H900955-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	5.24	0.500	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	7.97	0.500	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	42.8	1.50	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	56.0	3.00	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1450	50.0	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	21000	50.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	3850	50.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 236 % 41-142

Surrogate: 1-Chlorooctadecane 852 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H900955-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	172	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	76.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 2' (H900955-03)

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	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	109	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	14.5	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 3' (H900955-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	64.1	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 4' (H900955-05)

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	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 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	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	35.0	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 5' (H900955-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.19	109	2.00	6.18	
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41	
Total BTEX	<0.300	0.300	03/11/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	276	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	42.2	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 6' (H900955-07)

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	03/11/2019	ND	2.19	109	2.00	6.18		
Toluene*	<0.050	0.050	03/11/2019	ND	2.26	113	2.00	4.40		
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.20	110	2.00	6.55		
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.16	103	6.00	5.41		
Total BTEX	<0.300	0.300	03/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.6 % 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	160	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739		
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	198	99.2	200	4.49		
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 1 @ 7' (H900955-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13		
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04		
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31		
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94		
Total BTEX	<0.300	0.300	03/11/2019	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	128	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739		
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	198	99.2	200	4.49		
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ SURFACE (H900955-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.355	0.200	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	3.95	0.200	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	2.79	0.200	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	19.3	0.600	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	26.4	1.20	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	112	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	521	50.0	03/11/2019	ND	192	95.9	200	0.739		
DRO >C10-C28*	16600	50.0	03/11/2019	ND	198	99.2	200	4.49		
EXT DRO >C28-C36	4040	50.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 136 % 41-142

Surrogate: 1-Chlorooctadecane 789 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 1' (H900955-10)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13		
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04		
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31		
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94		
Total BTEX	<0.300	0.300	03/11/2019	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	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739		
DRO >C10-C28*	344	10.0	03/11/2019	ND	198	99.2	200	4.49		
EXT DRO >C28-C36	106	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 2' (H900955-11)

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	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	172	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	33.1	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 3' (H900955-12)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	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	16.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	84.3	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 4' (H900955-13)

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	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	192	95.9	200	0.739	
DRO >C10-C28*	67.5	10.0	03/11/2019	ND	198	99.2	200	4.49	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 5' (H900955-14)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.16	108	2.00	4.13	
Toluene*	<0.050	0.050	03/11/2019	ND	2.00	100	2.00	3.04	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.09	104	2.00	2.31	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.55	109	6.00	2.94	
Total BTEX	<0.300	0.300	03/11/2019	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	16.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	97.7	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 6' (H900955-15)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 2 @ 7' (H900955-16)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ SURFACE (H900955-17)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	3.98	0.500	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	4.56	0.500	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	29.7	1.50	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	38.3	3.00	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	03/13/2019	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	887	100	03/12/2019	ND	204	102	200	9.36		
DRO >C10-C28*	16100	100	03/12/2019	ND	206	103	200	7.22		
EXT DRO >C28-C36	2640	100	03/12/2019	ND						

Surrogate: 1-Chlorooctane 183 % 41-142

Surrogate: 1-Chlorooctadecane 651 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 1' (H900955-18)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	64.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	230	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	40.4	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 2' (H900955-19)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	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	32.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	37.2	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 3' (H900955-20)

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	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	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	16.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	27.2	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 4' (H900955-21)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/11/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/11/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/11/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/11/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 5' (H900955-22)

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	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 6' (H900955-23)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	03/13/2019	ND	416	104	400	7.41		

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	03/12/2019	ND	204	102	200	9.36		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 3 @ 7' (H900955-24)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	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	16.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ SURFACE (H900955-25)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.85	0.500	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	24.6	0.500	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	10.7	0.500	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	67.0	1.50	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	105	3.00	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	416	16.0	03/13/2019	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1970	50.0	03/12/2019	ND	204	102	200	9.36		
DRO >C10-C28*	27500	50.0	03/12/2019	ND	206	103	200	7.22		
EXT DRO >C28-C36	5320	50.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 249 % 41-142

Surrogate: 1-Chlorooctadecane 998 % 37.6-147

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Received:	03/08/2019	Sampling Date:	02/27/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 1' (H900955-26)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	2.78	0.200	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	4.87	0.200	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	27.2	0.600	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	34.8	1.20	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/13/2019	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	510	10.0	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	2740	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	507	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 187 % 41-142

Surrogate: 1-Chlorooctadecane 218 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 2' (H900955-27)

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	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	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	32.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	49.3	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	17.3	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 4 @ 3' (H900955-28)

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	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	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	48.0	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

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

Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ SURFACE (H900955-29)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	68000	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	91.7	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	23.7	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 98.5 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 1' (H900955-30)

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	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 2' (H900955-31)

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	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 5 @ 3' (H900955-32)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	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	880	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/12/2019	ND	204	102	200	9.36	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	206	103	200	7.22	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ SURFACE (H900955-33)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	1.13	0.500	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	0.976	0.500	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	7.12	1.50	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	9.22	3.00	03/12/2019	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	18400	16.0	03/13/2019	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	163	50.0	03/12/2019	ND	204	102	200	9.36		
DRO >C10-C28*	24400	50.0	03/12/2019	ND	206	103	200	7.22		
EXT DRO >C28-C36	4050	50.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 459 % 41-142

Surrogate: 1-Chlorooctadecane 867 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 1' (H900955-34)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.25	112	2.00	2.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.07	104	2.00	0.402	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	2.17	109	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.62	110	6.00	1.22	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9920	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	396	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	60.8	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 86.7 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 2' (H900955-35)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	8080	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	61.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 3' (H900955-36)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	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	6800	16.0	03/13/2019	ND	416	104	400	7.41	

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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	24.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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 Fax To: (575) 397-0397

Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 4' (H900955-37)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	03/13/2019	ND	400	100	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*	<10.0	10.0	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	26.7	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 72.6 % 41-142

Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 5' (H900955-38)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	0.058	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.415	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	0.473	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	10400	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10.0	10.0	03/11/2019	ND	208	104	200	6.80		
DRO >C10-C28*	1720	10.0	03/11/2019	ND	223	112	200	19.2		
EXT DRO >C28-C36	415	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 150 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 6' (H900955-39)

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	03/12/2019	ND	2.03	101	2.00	0.598		
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80		
DRO >C10-C28*	18.0	10.0	03/11/2019	ND	223	112	200	19.2		
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 7' (H900955-40)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 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	6560	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 8' (H900955-41)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	6800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 6 @ 9' (H900955-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 6 @ 10' (H900955-43)

Chloride, SM4500CI-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	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 6 @ 11' (H900955-44)

Chloride, SM4500CI-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	03/13/2019	ND	400	100	400	0.00	

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ SURFACE (H900955-45)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	0.580	0.500	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	0.900	0.500	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	7.22	1.50	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	8.70	3.00	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	13600	16.0	03/13/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	118	10.0	03/11/2019	ND	208	104	200	6.80		
DRO >C10-C28*	9370	10.0	03/11/2019	ND	223	112	200	19.2		
EXT DRO >C28-C36	1330	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 543 % 41-142

Surrogate: 1-Chlorooctadecane 280 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 1' (H900955-46)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.205	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 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	14800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	612	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	226	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 78.1 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 2' (H900955-47)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	11300	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	17.7	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 82.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 3' (H900955-48)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	8800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 4' (H900955-49)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	7440	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/01/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 5' (H900955-50)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	15.9	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 76.2 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 6' (H900955-51)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 7 @ 7' (H900955-52)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 7 @ 8' (H900955-53)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 7 @ 9' (H900955-54)

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	03/13/2019	ND	400	100	400	0.00	

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 7 @ 10' (H900955-55)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598		
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	80.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80		
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2		
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ SURFACE (H900955-56)

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	03/12/2019	ND	2.03	101	2.00	0.598		
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 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	1220	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80		
DRO >C10-C28*	1040	10.0	03/11/2019	ND	223	112	200	19.2		
EXT DRO >C28-C36	375	10.0	03/11/2019	ND						

Surrogate: 1-Chlorooctane 76.9 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ 1' (H900955-57)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ 2' (H900955-58)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 8 @ 3' (H900955-59)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	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	32.0	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ SURFACE (H900955-60)

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	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	0.277	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	880	16.0	03/13/2019	ND	400	100	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	03/11/2019	ND	208	104	200	6.80	
DRO >C10-C28*	175	10.0	03/11/2019	ND	223	112	200	19.2	
EXT DRO >C28-C36	84.3	10.0	03/11/2019	ND					

Surrogate: 1-Chlorooctane 67.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ 1' (H900955-61)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	2.03	101	2.00	0.598	
Toluene*	<0.050	0.050	03/12/2019	ND	1.89	94.7	2.00	0.154	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.96	97.9	2.00	1.42	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.06	101	6.00	0.758	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	384	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ 2' (H900955-62)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.0 % 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	176	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 9 @ 3' (H900955-63)

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	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.5 % 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	80.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ SURFACE (H900955-64)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 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	256	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	22.3	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 1' (H900955-65)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.3 % 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	8960	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 78.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 2' (H900955-66)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 3' (H900955-67)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 79.6 % 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	13600	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 96.3 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 4' (H900955-68)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 10 @ 5' (H900955-69)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 10 @ 6' (H900955-70)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8720	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 10 @ 7' (H900955-71)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	03/13/2019	ND	400	100	400	0.00	

Sample ID: SP 10 @ 8' (H900955-72)

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	03/13/2019	ND	400	100	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:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 10 @ 9' (H900955-73)

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	03/13/2019	ND	400	100	400	0.00	

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ SURFACE (H900955-74)

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	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 81.2 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ 1' (H900955-75)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.6 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ 2' (H900955-76)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.9 % 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	96.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 11 @ 3' (H900955-77)

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	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 77.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ SURFACE (H900955-78)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 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	64.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ 1' (H900955-79)

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	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 78.2 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ 2' (H900955-80)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 76.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 12 @ 3' (H900955-81)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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

Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ SURFACE (H900955-82)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	0.169	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	0.063	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	0.350	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	0.582	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 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	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 78.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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Analytical Results For:

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ 1' (H900955-83)

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	03/12/2019	ND	1.92	96.0	2.00	4.17		
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74		
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53		
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858		
Total BTEX	<0.300	0.300	03/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62		
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82		
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND						

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ 2' (H900955-84)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 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	80.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.7 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/05/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SP 13 @ 3' (H900955-85)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.8 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: NORTH @ SURFACE (H900955-86)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	189	94.5	200	3.62	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	179	89.5	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 75.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Analytical Results For:

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

Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: EAST @ SURFACE (H900955-87)

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	03/12/2019	ND	1.92	96.0	2.00	4.17	
Toluene*	<0.050	0.050	03/12/2019	ND	2.00	99.8	2.00	2.74	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.83	91.7	2.00	2.53	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	5.17	86.1	6.00	0.858	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 78.8 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/12/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/12/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/12/2019	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: WEST @ SURFACE (H900955-88)

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	03/12/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/12/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	48.0	16.0	03/13/2019	ND	400	100	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	03/15/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

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Received:	03/08/2019	Sampling Date:	03/04/2019
Reported:	03/15/2019	Sampling Type:	Soil
Project Name:	HARROUN 9-1 CTB	Sampling Condition:	Cool & Intact
Project Number:	1/14/19 , 1/21/19, 1/23/19	Sample Received By:	Jodi Henson
Project Location:	OXY		

Sample ID: SOUTH @ SURFACE (H900955-89)

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	03/12/2019	ND	2.01	100	2.00	0.103	
Toluene*	<0.050	0.050	03/12/2019	ND	1.86	93.2	2.00	0.296	
Ethylbenzene*	<0.050	0.050	03/12/2019	ND	1.98	98.9	2.00	1.67	
Total Xylenes*	<0.150	0.150	03/12/2019	ND	6.01	100	6.00	1.52	
Total BTEX	<0.300	0.300	03/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	32.0	16.0	03/13/2019	ND	400	100	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	03/15/2019	ND	209	105	200	0.443	
DRO >C10-C28*	<10.0	10.0	03/15/2019	ND	218	109	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/15/2019	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.3 % 37.6-147

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:
Project Manager: Cliff Brunson		Company: <i>DRU</i>
Address: P.O. Box 805		Attn: <i>W. D. Hrick</i>
City: Hobbs		Address:
State: NM Zip: 88241		City:
Phone #: 575-397-6388		State:
Fax #: 575-397-0397		Zip:
Project #: Project Owner: Oxy		Phone #:
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19		Fax #:
Project Location:		
Sampler Name: Jeff Ornelas		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	CI	BTX	TPH Ext
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
<i>H900955</i>		<i>4</i>	<i>1</i>			<input checked="" type="checkbox"/>					<i>2/27/19</i>	<i>9:44 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	1										<i>2/27/19</i>	<i>9:55 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	2										<i>2/27/19</i>	<i>10:15 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	3										<i>2/27/19</i>	<i>10:33 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	4										<i>2/27/19</i>	<i>10:51 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	5										<i>2/27/19</i>	<i>11:01 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	6										<i>2/27/19</i>	<i>11:11 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	7										<i>2/27/19</i>	<i>11:19 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	8										<i>2/27/19</i>	<i>11:33 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	9										<i>2/27/19</i>	<i>11:44 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	10										<i>2/27/19</i>	<i>11:44 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>3-8-19</i>	Received By: <i>Joel Henderson</i>
Time: <i>4:30pm</i>		Time: <i>4:30pm</i>
Relinquished By: <i>Joel Henderson</i>	Date: <i>3-8-19</i>	Received By: <i>Joel Henderson</i>
Time: <i>4:30pm</i>		Time: <i>4:30pm</i>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>4952 / #97</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: <i>[Signature]</i>

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Address: P.O. Box 805		Company: Oxy			
City: Hobbs		State: NM Zip: 88241		Attn: L.S. Dethrick			
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:			
Project #:		Project Owner: Oxy		City:			
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19		State: Zip:		Phone #:			
Project Location:		Fax #:		DATE		TIME	
Sampler Name: Jeff Ornelas		FOR LAB USE ONLY		DATE		TIME	
Lab I.D. Sample I.D.		SP2 @ 2'		2/27/19		11:55 AM	
HQ00955		SP2 @ 3'		2/27/19		12:12 PM	
		SP2 @ 4'		2/27/19		12:51 PM	
		SP2 @ 5'		2/27/19		1:01 PM	
		SP2 @ 6'		2/27/19		1:11 PM	
		SP2 @ 7'		2/27/19		1:25 PM	
		SP3 @ SURFACE		2/27/19		1:29 PM	
		SP3 @ 1'		2/27/19		1:35 PM	
		SP3 @ 2'		2/27/19		1:45 PM	
		SP3 @ 3'		2/27/19		2:01 PM	
		(G)RAB OR (C)OMP.					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE					
		TIME					
		C1					
		BTEX					
		TPH Ext					

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Relinquished By: *Jeff Ornelas* Date: *3-8-19* Received By: *Shawn Howe*

Time: *4:30pm*

Delivered By: (Circle One) *Shawn Howe* Sample Condition: Cool Intact

Sampler - UPS - Bus - Other: *4:30 #97* Yes No

CHECKED BY: *[Signature]*

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.	P.O. #:
Project Manager: Cliff Brunson	Company:
Address: P.O. Box 805	Attn:
City: Hobbs	Address:
State: NM Zip: 88241	City:
Phone #: 575-397-6388	State:
Fax #: 575-397-0397	Zip:
Project #: Project Owner: Oxy	Phone #:
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	Fax #:
Project Location:	
Sampler Name: Jeff Ornelas	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TPH Ext
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H900955	SP5 @ 2'	G	1			✓				3/1/19	10:51 AM	✓	✓	✓
	SP5 @ 3'									3/1/19	10:59 AM	✓	✓	✓
	SP6 @ SURFACE									3/1/19	11:05 AM	✓	✓	✓
	SP6 @ 1'									3/1/19	11:11 AM	✓	✓	✓
	SP6 @ 2'									3/1/19	11:22 AM	✓	✓	✓
	SP6 @ 3'									3/1/19	11:33 AM	✓	✓	✓
	SP6 @ 4'									3/1/19	11:44 AM	✓	✓	✓
	SP6 @ 5'									3/1/19	11:55 AM	✓	✓	✓
	SP6 @ 6'									3/1/19	12:12 PM	✓	✓	✓
	SP6 @ 7'									3/5/19	10:12 AM	✓	✓	✓

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Retinquished By: <i>VBS (D) [Signature]</i>	Date: 3-8-19	Received By: <i>godi [Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:30pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date: 3-8-19	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other: 4:30 / #97	Time: 4:30pm	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
		Checked By: <i>[Signature]</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5 of

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:															
Project Manager: Cliff Brunson		Company: <i>Dacy</i>															
Address: P.O. Box 805		Attn: <i>W.D. Ditcher</i>															
City: Hobbs		Address:															
State: NM Zip: 88241		City:															
Phone #: 575-397-6388		State: Zip:															
Fax #: 575-397-0397		Phone #:															
Project #: Project Owner: Oxy		Fax #:															
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19																	
Project Location:																	
Sampler Name: Jeff Ornelas																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME									
<i>H9DD955</i>																	
<i>41</i>	SP6 @ 8'	<i>9</i>	<i>1</i>	GROUNDWATER													
<i>42</i>	SP6 @ 9'			WASTEWATER													
<i>43</i>	SP6 @ 10'			SOIL													
<i>44</i>	SP6 @ 11'			OIL													
<i>45</i>	SP7 @ SURFACE			SLUDGE													
<i>46</i>	SP7 @ 1'			OTHER :													
<i>47</i>	SP7 @ 2'			ACID/BASE:													
<i>48</i>	SP7 @ 3'			ICE / COOL													
<i>49</i>	SP7 @ 4'			OTHER :													
<i>50</i>	SP7 @ 5'																

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Relinquished By: *VSFF Ornelas* Date: *3-8-19* Received By: *Small House*

Relinquished By: *Small House* Date: *3-8-19* Received By: *Small House*

Delivered By: (Circle One) *Small House* Sample Condition: Intact Cool Yes No

Sampler - UPS - Bus - Other: *4.30 PM #99* CHECKED BY: *Small House*

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

Company Name: BBC International, Inc.	P.O. #:	ANALYSIS REQUEST
Project Manager: Cliff Brunson	Company: <i>Oxy</i>	
Address: P.O. Box 805	Attn: <i>W. O'Brien</i>	
City: Hobbs	Address:	
State: NM zip: 88241	City:	
Phone #: 575-397-6388	State:	
Fax #: 575-397-0397	Zip:	
Project #: <i>Oxy</i>	Phone #:	
Project Name: Harroun 9-1 CTB, 1/14/19, 1/21/19, 1/23/19	Fax #:	
Project Location:		
Sampler Name: Jeff Ornelas		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	✓	✓	✓	✓	✓	✓	✓	✓
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
<i>H9D0955</i>	SP10 @ 7'	<i>5</i>	<i>1</i>			<input checked="" type="checkbox"/>													
	SP10 @ 8'																		
	SP10 @ 9'																		
	SP11 @ SURFACE																		
	SP11 @ 1'																		
	SP11 @ 2'																		
	SP11 @ 3'																		
	SP12 @ SURFACE																		
	SP12 @ 1'																		
	SP12 @ 2'																		

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>3-8-19</i>	Received By: <i>Shack Jones</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>4:30pm</i>	Date: <i>3-8-19</i>	Received By: <i>Shack Jones</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time: <i>4:30pm</i>	Date: <i>3-8-19</i>	Received By: <i>Shack Jones</i>	REMARKS:	
Delivered By: (Circle One) <i>Shack Jones</i>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY: <i>Shack Jones</i>		
Sampler - UPS - Bus - Other: <i>4:30 / #197</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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8 21 19

