



## DELINEATION WORKPLAN

### OXY – SOUTH MATTIX FEDERAL FOWLER SWD (Leak Date: 9/19/18)

#### RP # 1RP-5226

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This delineation workplan and remediation proposal addresses the releases associated with RP # 1RP-5226.

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 – SP5 (YELLOW shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP6 and SP7 (PURPLE shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP8 – SP11 and SP14 – SP15 (BLUE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP12 and SP13 (ORANGE shade on diagram) will be excavated to a depth of 2 feet.***

***Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 4047 cubic yards. The remediation will be completed within 90 days of plan approval.***

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

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

Incident ID	NCH1828467837
District RP	1RP-5228
Facility ID	fCH1828467406
Application ID	pCH1828468053

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Incident ID	NCH1828467837
District RP	1RP-5228
Facility ID	fCH1828467406
Application ID	pCH1828468053

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 DittrichTitle: Environmental CoordinatorSignature: Date: 2-7-19email: wade\_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	NCH1828467837
District RP	1RP-5226
Facility ID	FCH1828467408
Application ID	pCH1828468053

## Remediation Plan


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

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

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

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

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

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 2-7-19  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Vanessa Fields Date: 2/22/2019

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

Signature:  Date: 2/22/2019

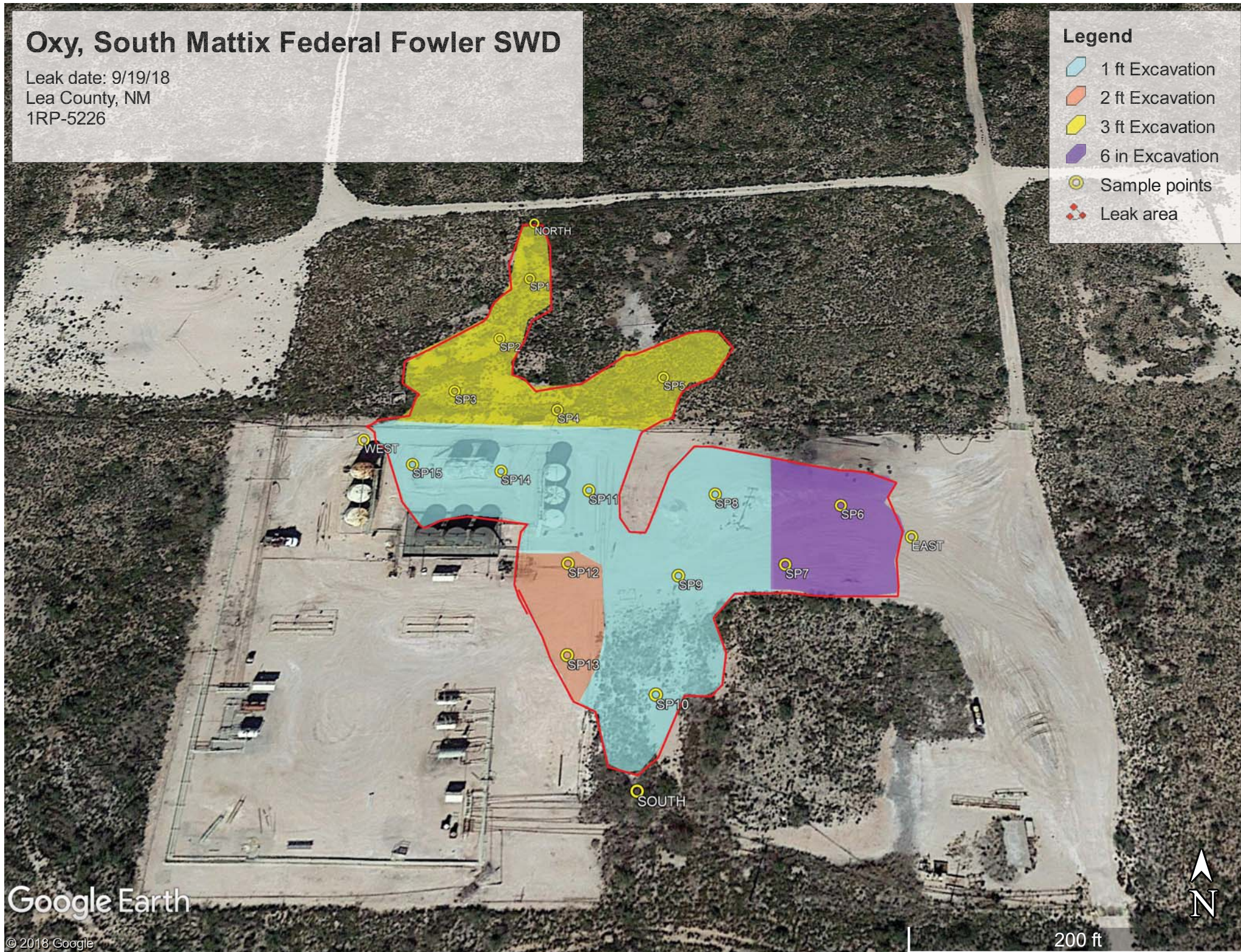


# Oxy, South Mattix Federal Fowler SWD

Leak date: 9/19/18  
Lea County, NM  
1RP-5226

## Legend

- 1 ft Excavation
- 2 ft Excavation
- 3 ft Excavation
- 6 in Excavation
- Sample points
- Leak area





## Oxy, South Mattix Federal Fowler SWD

### Sample points

SP1, N 32.21781 W-103.14946

SP2, N 32.21763 W-103.14953

SP3, N 32.21749 W-103.14963

SP4, N 32.21744 W-103.14938

SP5, N 32.21753 W-103.14912

SP6, N 32.21721 W-103.14872

SP7, N 32.21707 W-103.14886

SP8, N 32.21723 W-103.14901

SP9, N 32.21705 W-103.14910

SP10, N 32.21680 W-103.14915

SP11, N 32.21724 W-103.14930

SP12, N 32.21707 W-103.14934

SP13, N 32.21688 W-103.14934

SP14, N 32.21728 W-103.14951

SP15, N 32.21730 W-103.14971

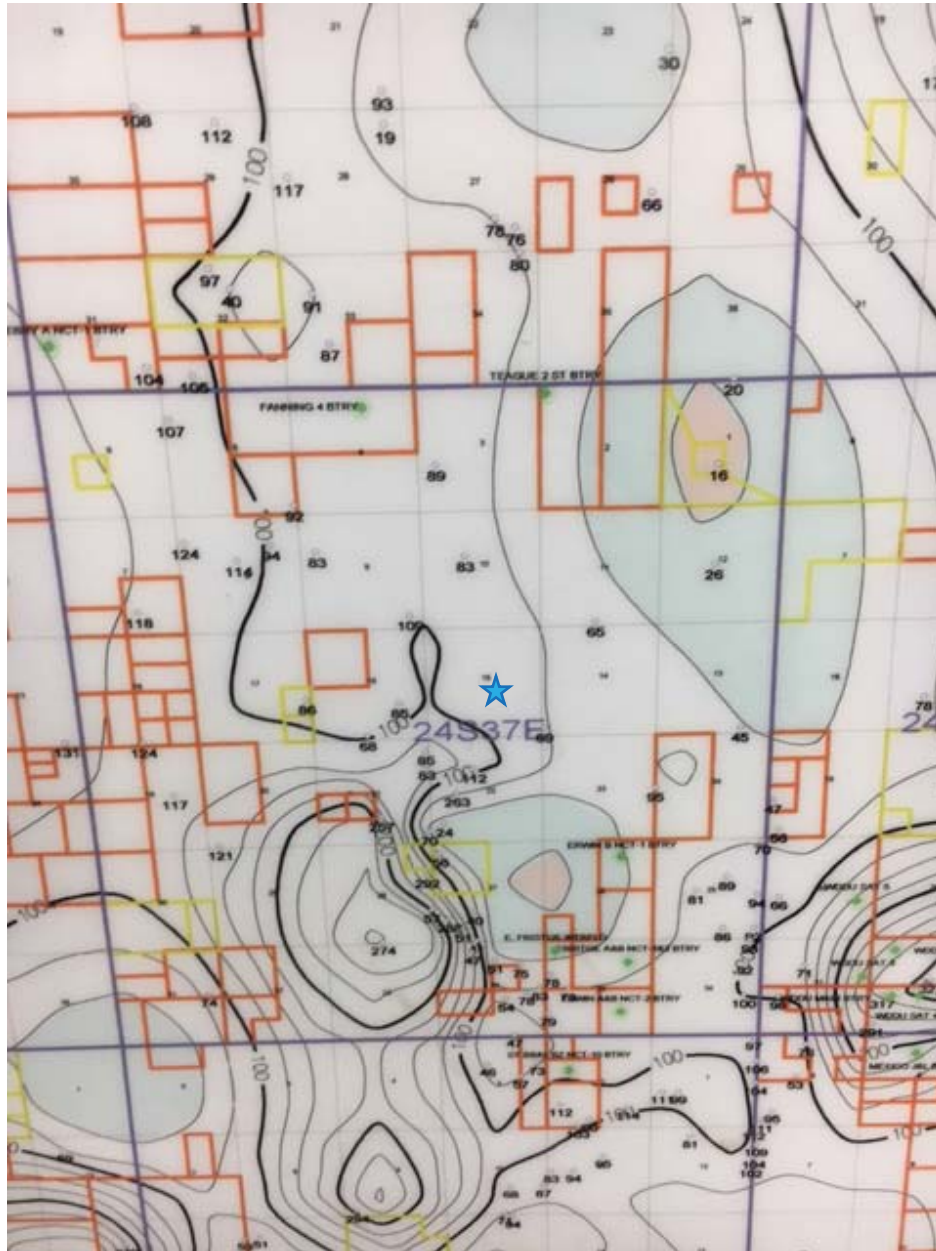
NORTH, N 32.21798 W-103.14946

SOUTH, N 32.21662 W-103.14919

EAST, N 32.21714 W-103.14856

WEST, N 32.21736 W-103.14984

**Oxy, South Mattix Federal Fowler SWD**  
**U/L J, Section 15, T24S, R37E**  
**Groundwater: 75'-100'**





USGS Home  
Contact USGS  
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## National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

- [Please see news on new formats](#)
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Groundwater levels for New Mexico

Click to hide state-specific text

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 320309103080401

Minimum number of levels = 1

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

### USGS 320309103080401 26S.37E.14.122122

Lea County, New Mexico

Latitude 32°03'01", Longitude 103°08'05" NAD27

Land-surface elevation 2,998.90 feet above NGVD29

The depth of the well is 131 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-02-17		D	100.57				2		U	
1966-04-12		D	100.32				2		U	
1968-02-14		D	98.88				2		U	
1970-12-02		D	99.56				2		U	
1976-01-06		D	98.91				2		U	
1976-02-05		D	99.01				2		U	
1981-03-13		D	97.91				2		U	
1986-03-05		D	97.13				2		U	
1990-11-14		D	96.34				2		U	
1996-02-28		D	95.73				2		S	
2001-03-06		D	95.45				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



Section	Code	Description
Method of measurement	S	Steel-tape measurement.
<a href="#">Method of measurement</a>	U	<a href="#">Unknown method.</a>
Measuring agency		Not determined
<a href="#">Source of measurement</a>	U	<a href="#">Source is unknown.</a>
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**

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

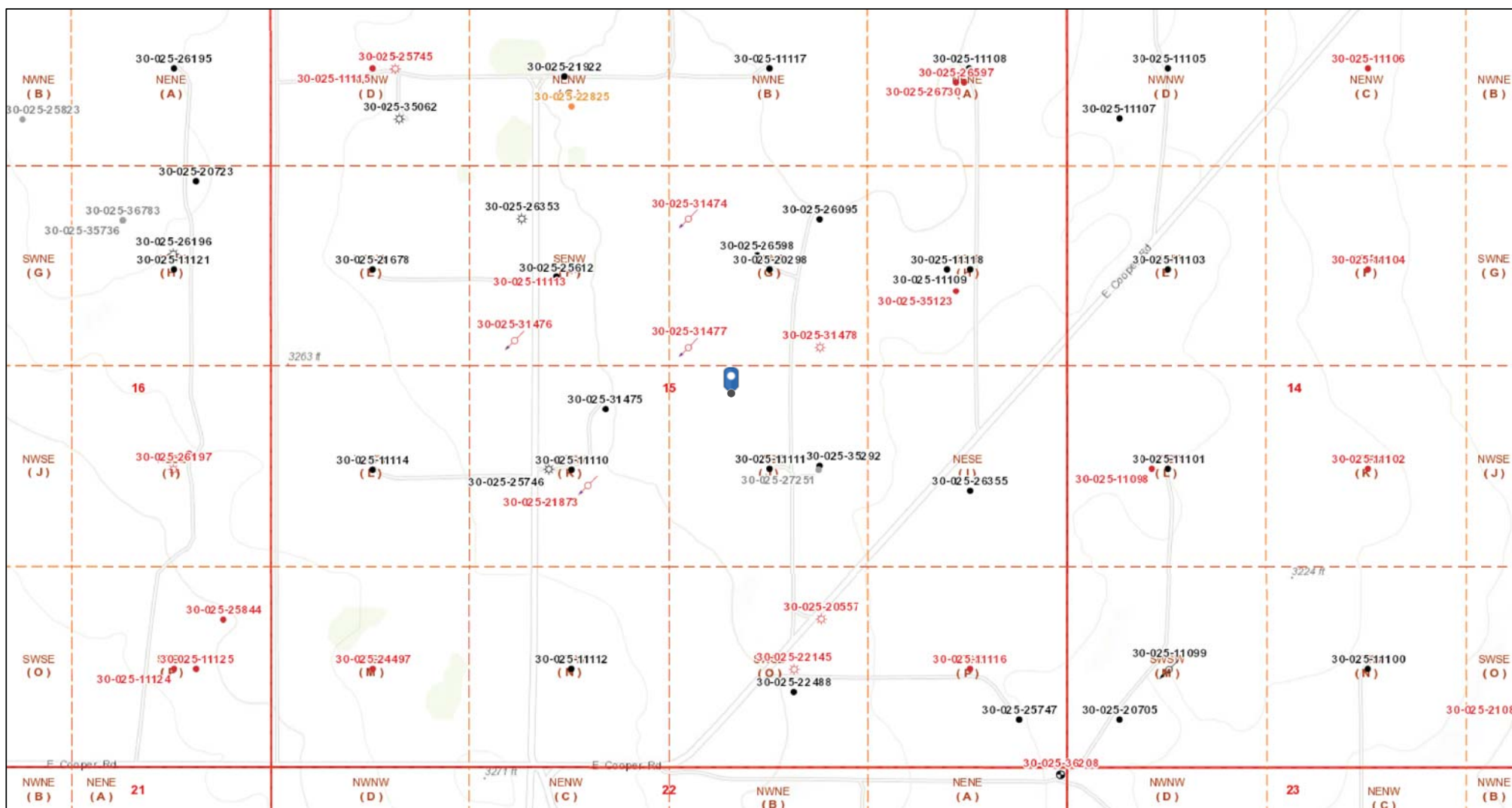


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-01-28 12:21:33 EST

0.5 0.42 nadww01

# South Mattix Federal Fowler SWD, Topo Map with Water Features



1/28/2019 10:24:47 AM

1:9,028

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

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

Gas Active

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

Injection, Cancelled

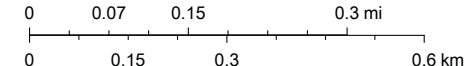
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned

Oil, 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





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

# Oxy, South Mattix Federal Fowler SWD

Leak date: 9/19/18  
Lea County, NM  
1RP-5226

## BLM CAVE KARST MAP

### Legend

-  Leak area
-  Low potential



12

Google Earth

© 2018 Google



1000 ft



# National Flood Hazard Layer FIRMMette



32°13'16.06"N



## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/9/2018 at 2:11:27 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Laboratory Analytical Results Summary  
South Mattix Federal Fowler SWD (9/19/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	1/16/19	1/16/19	1/16/19	1/16/19
			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		4720	1250	144	160
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	SP2 @ SURFACE	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	1/17/19	1/17/19	1/17/19	1/17/19
			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		4720	1460	160	160
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	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/17/19	1/17/19	1/17/19	1/17/19
			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		464	1540	416	144
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		25.4	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	1/17/19	1/17/19	1/18/19	1/18/19
			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		832	16	48	64
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  
South Mattix Federal Fowler SWD (9/19/18)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	1/18/19	1/18/19	1/18/19	1/21/19	1/21/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		544	752	944	112	432
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	1/21/19	1/21/19	1/21/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		96	32	384
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		448	64.1	<10.0
EXT DRO	TPH 8015M		153	54.9	<10.0

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	1/21/19	1/21/19	1/21/19	1/21/19	1/21/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		272	816	96	336	384
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.6	32.6	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	1/21/19	1/21/19	1/21/19	1/22/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		192	48	80	64
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		13800	946	82.2	50.8
EXT DRO	TPH 8015M		4190	257	54.3	14.7



Laboratory Analytical Results Summary  
South Mattix Federal Fowler SWD (9/19/18)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	1/22/19	1/22/19	1/22/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		4320	48	64
GRO	TPH 8015M		10.4	<10.0	<10.0
DRO	TPH 8015M		5870	192	68.7
EXT DRO	TPH 8015M		1800	170	49.3

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	1/22/19	1/22/19	1/22/19	1/22/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		160	224	224	176
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6200	<10.0	<10.0	33.9
EXT DRO	TPH 8015M		1510	<10.0	<10.0	<10.0

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'	SP11 @ 4'	SP11 @ 5'
Analyte	Method	Date	1/23/19	1/23/19	1/23/19	1/23/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		30000	288	432	992	80	224
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	<50.0	<10.0
DRO	TPH 8015M		1730	10.1	<10.0	16.3	81.9	49.4
EXT DRO	TPH 8015M		633	<10.0	<10.0	<10.0	<50.0	12.4

		Sample ID	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'	SP12 @ 4'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	0.134	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.172	0.211	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.31	0.751	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.48	1.1	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	640	640	608	128
GRO	TPH 8015M		119	<100	<10.0	<10.0	<10.0
DRO	TPH 8015M		7000	12700	56.8	63.7	<10.0
EXT DRO	TPH 8015M		1060	3150	14.8	<10.0	<10.0

Laboratory Analytical Results Summary  
South Mattix Federal Fowler SWD (9/19/18)

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.401	<0.150	<0.150
Total BTEX	BTEX 8021B		0.401	<0.300	<0.300
Chloride	SM4500Cl-B		896	160	80
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		8060	38.3	849
EXT DRO	TPH 8015M		1400	<10.0	82.2

		Sample ID	SP14 @ SURFACE	SP14 @ 1'	SP14 @ 2'	SP14 @ 3'	SP14 @ 4'	SP14 @ 5'
Analyte	Method	Date	1/24/19	1/24/19	1/24/19	1/24/19	1/24/19	1/25/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.118	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.416	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.534	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		19200	288	64	560	224	96
GRO	TPH 8015M		<100	<10.0	<10.0	<50.0	<50.0	<10.0
DRO	TPH 8015M		8530	190	134	176	<50.0	<10.0
EXT DRO	TPH 8015M		2490	102	61.6	80.7	<50.0	<10.0

		Sample ID	SP15 @ SURFACE	SP15 @ 1'	SP15 @ 2'	SP15 @ 3'
Analyte	Method	Date	1/25/19	1/25/19	1/25/19	1/25/19
			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		448	880	896	96
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		2870	111	142	34.9
EXT DRO	TPH 8015M		1070	73.6	53.9	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	1/25/19	1/25/19	1/25/19	1/25/19
			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		400	464	416	384
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

February 01, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX FEDERAL FOWLER SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/31/19 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



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:	01/31/2019	Sampling Date:	01/16/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ SURFACE (H900354-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	4720	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				I-03	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/16/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ 2' (H900354-02)**

BTEx 8021B			mg/kg					Analyzed By: MS		I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43			
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56			
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39			
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23			
Total BTEX	<0.300	0.300	01/31/2019	ND							

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	1250	16.0	02/01/2019	ND	416	104	400	0.00			

TPH 8015M			mg/kg					Analyzed By: MS		I-03	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85			
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42			
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND							

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/16/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ 3' (H900354-03)**

BTEx 8021B		mg/kg		Analyzed By: MS				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	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	144	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				I-03	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/16/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 1 @ 4' (H900354-04)**

BTX 8021B		mg/kg		Analyzed By: MS				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	160	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				I-03	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ SURFACE (H900354-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	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	4720	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ 2' (H900354-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ 3' (H900354-07)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43		
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23		
Total BTX	<0.300	0.300	01/31/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	160	16.0	02/01/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 2 @ 4' (H900354-08)**

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	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	160	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ SURFACE (H900354-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	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	464	16.0	02/01/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	25.4	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ 1' (H900354-10)**

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	01/31/2019	ND	2.09	104	2.00	3.43		
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23		
Total BTEX	<0.300	0.300	01/31/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	02/01/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ 2' (H900354-11)**

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	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 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	416	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 3 @ 3' (H900354-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ SURFACE (H900354-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	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	832	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/17/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ 1' (H900354-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/18/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ 2' (H900354-15)**

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	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/18/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 4 @ 3' (H900354-16)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/18/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ SURFACE (H900354-17)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	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	544	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/31/2019	Sampling Date:	01/18/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 1' (H900354-18)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 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	752	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.1 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/18/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 2' (H900354-19)**

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	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	944	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 3' (H900354-20)**

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	01/31/2019	ND	2.09	104	2.00	3.43	
Toluene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	3.56	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.12	106	2.00	8.39	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.14	102	6.00	7.23	
Total BTEX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	112	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 5 @ 4' (H900354-21)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	01/31/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	5.25	87.5	6.00	5.58	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 75.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ SURFACE (H900354-22)**

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	01/31/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	01/31/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	5.25	87.5	6.00	5.58	
Total BTEx	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	448	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	153	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ 1' (H900354-23)**

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	01/31/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	01/31/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	5.25	87.5	6.00	5.58		
Total BTEx	<0.300	0.300	01/31/2019	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	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	64.1	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	54.9	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 6 @ 2' (H900354-24)**

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	01/31/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	01/31/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	5.25	87.5	6.00	5.58	
Total BTEx	<0.300	0.300	01/31/2019	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	384	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 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:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ SURFACE (H900354-25)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	15.6	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 1' (H900354-26)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	816	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	32.6	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 2' (H900354-27)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEx	<0.300	0.300	02/01/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 3' (H900354-28)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	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	336	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 7 @ 4' (H900354-29)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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	384	16.0	02/01/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ SURFACE (H900354-30)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEx	<0.300	0.300	02/01/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/01/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	13800	50.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	4190	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 596 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 1' (H900354-31)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	48.0	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	946	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	257	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 84.8 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/21/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 2' (H900354-32)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	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	80.0	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	82.2	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	54.3	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 79.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 8 @ 3' (H900354-33)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	50.8	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	14.7	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ SURFACE (H900354-34)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEX	<0.300	0.300	02/01/2019	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	4320	16.0	02/01/2019	ND	448	112	400	3.64		

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*	10.4	10.0	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	5870	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	1800	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 315 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ 1' (H900354-35)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 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	48.0	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	192	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	170	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 9 @ 2' (H900354-36)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70	
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58	
Total BTEX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	68.7	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	49.3	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ SURFACE (H900354-37)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEx	<0.300	0.300	02/01/2019	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	160	16.0	02/01/2019	ND	448	112	400	3.64		

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	02/01/2019	ND	213	107	200	1.65	
DRO >C10-C28*	6200	10.0	02/01/2019	ND	244	122	200	19.3	
EXT DRO >C28-C36	1510	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 94.2 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ 1' (H900354-38)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEX	<0.300	0.300	02/01/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/01/2019	ND	448	112	400	3.64	

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	01/31/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ 2' (H900354-39)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEX	<0.300	0.300	02/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	224	16.0	02/01/2019	ND	448	112	400	3.64	

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	01/31/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 81.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/31/2019	Sampling Date:	01/22/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 10 @ 3' (H900354-40)**

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	02/01/2019	ND	1.91	95.5	2.00	2.70		
Toluene*	<0.050	0.050	02/01/2019	ND	1.94	96.8	2.00	3.41		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.80	90.2	2.00	6.71		
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.25	87.5	6.00	5.58		
Total BTEX	<0.300	0.300	02/01/2019	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	176	16.0	02/01/2019	ND	448	112	400	3.64	

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	01/31/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	33.9	10.0	01/31/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/23/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ SURFACE (H900354-41)**

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	01/31/2019	ND	2.20	110	2.00	0.336		
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706		
Total BTEx	<0.300	0.300	01/31/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	30000	16.0	02/01/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/31/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	1730	50.0	01/31/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	633	50.0	01/31/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 151 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/23/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 1' (H900354-42)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	288	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	10.1	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/23/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 2' (H900354-43)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/23/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 3' (H900354-44)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	992	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	16.3	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 4' (H900354-45)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2019	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	81.9	50.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<50.0	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 11 @ 5' (H900354-46)**

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	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	224	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	49.4	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	12.4	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 12 @ SURFACE (H900354-47)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	01/31/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	0.172	0.050	01/31/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	1.31	0.150	01/31/2019	ND	6.09	101	6.00	0.706	
Total BTX	1.48	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	02/01/2019	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

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*	119	50.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	7000	50.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	1060	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 261 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 12 @ 1' (H900354-48)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	0.134	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	0.211	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	0.751	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEX	1.10	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	640	16.0	02/01/2019	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
									S-06	

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*	<100	100	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	12700	100	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	3150	100	02/01/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 414 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 12 @ 2' (H900354-49)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	56.8	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	14.8	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 12 @ 3' (H900354-50)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	02/01/2019	ND	448	112	400	3.64	

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	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	63.7	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.8 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 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:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 12 @ 4' (H900354-51)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 13 @ SURFACE (H900354-52)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336		
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95		
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06		
Total Xylenes*	0.401	0.150	02/01/2019	ND	6.09	101	6.00	0.706		
Total BTEX	0.401	0.300	02/01/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/01/2019	ND	448	112	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*	<50.0	50.0	02/01/2019	ND	186	93.1	200	0.184	
<b>DRO &gt;C10-C28*</b>	<b>8060</b>	50.0	02/01/2019	ND	199	99.6	200	0.217	
<b>EXT DRO &gt;C28-C36</b>	<b>1400</b>	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 322 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 13 @ 1' (H900354-53)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/01/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	38.3	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 13 @ 2' (H900354-54)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	249	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	82.2	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.1 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ SURFACE (H900354-55)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	0.118	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	0.416	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEX	0.534	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	19200	16.0	02/01/2019	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

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*	<100	100	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	8530	100	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	2490	100	02/01/2019	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 299 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ 1' (H900354-56)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	190	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	102	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 80.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ 2' (H900354-57)**

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	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTEx	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	186	93.1	200	0.184	
DRO >C10-C28*	134	10.0	02/01/2019	ND	199	99.6	200	0.217	
EXT DRO >C28-C36	61.6	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ 3' (H900354-58)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	176	50.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	80.7	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/24/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ 4' (H900354-59)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	02/01/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<50.0	50.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<50.0	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 14 @ 5' (H900354-60)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.20	110	2.00	0.336	
Toluene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	1.95	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	1.99	99.7	2.00	2.06	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	6.09	101	6.00	0.706	
Total BTX	<0.300	0.300	02/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 37.6-147

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**Analytical Results For:**

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 15 @ SURFACE (H900354-61)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804		
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10		
Total BTX	<0.300	0.300	01/31/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	02/01/2019	ND	448	112	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*	<50.0	50.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	2870	50.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	1070	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 190 % 37.6-147

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**Analytical Results For:**

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Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 15 @ 1' (H900354-62)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	111	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	73.6	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 15 @ 2' (H900354-63)**

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	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTEx	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	142	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	53.9	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SP 15 @ 3' (H900354-64)**

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	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTEX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/01/2019	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	34.9	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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**Analytical Results For:**

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: NORTH @ SURFACE (H900354-65)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTX	<0.300	0.300	01/31/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/01/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.9 % 37.6-147

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Fax To: (575) 397-0397

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: EAST @ SURFACE (H900354-66)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTX	<0.300	0.300	01/31/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	464	16.0	02/01/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: WEST @ SURFACE (H900354-67)**

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	01/31/2019	ND	2.36	118	2.00	0.804		
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10		
Total BTEx	<0.300	0.300	01/31/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/01/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/31/2019	Sampling Date:	01/25/2019
Reported:	02/01/2019	Sampling Type:	Soil
Project Name:	SOUTH MATTIX FEDERAL FOWLER SWD	Sampling Condition:	Cool & Intact
Project Number:	( 9/19/18 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

**Sample ID: SOUTH @ SURFACE (H900354-68)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804		
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837		
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10		
Total BTX	<0.300	0.300	01/31/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	384	16.0	02/01/2019	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	160	80.2	200	9.64	
DRO >C10-C28*	<10.0	10.0	02/01/2019	ND	180	90.1	200	6.28	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 73.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

### 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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
I-03	This result was extracted outside of the EPA recommended holding time of 14 days.
I-02	This result was analyzed outside of the EPA recommended holding time.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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

1 of 7

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																													
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em;"> <span>BTEX</span> <span>CI</span> <span>THAT</span> </div>																													
Address: P.O. Box 805				Company: <i>Oxy Wade</i>																																	
City: Hobbs		State: NM		Zip: 88241		Attn:																															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:																															
Project #:		Project Owner: Oxy		State:		Zip:																															
Project Name: South Mattix Federal Fowler SWD (9/19/18)				Phone #:																																	
Project Location: Lea County, NM				Fax #:																																	
Sampler Name: Jeff Ornelas																																					
FOR LAB USE ONLY																																					
Lab I.D.		Sample I.D.		GIRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
<i>H900354</i>				<i>G</i>		<i>1</i>		<i>✓</i>		<i>✓</i>												<i>1/16/19</i>		<i>10:30 AM</i>		<i>✓ ✓ ✓</i>											
<i>1</i>		SP1 @ SURFACE																				<i>1/16/19</i>		<i>11:30 AM</i>		<i>✓ ✓ ✓</i>											
<i>2</i>		SP1 @ 2'																				<i>1/16/19</i>		<i>11:50 AM</i>		<i>✓ ✓ ✓</i>											
<i>3</i>		SP1 @ 3'																				<i>1/16/19</i>		<i>12:12 PM</i>		<i>✓ ✓ ✓</i>											
<i>4</i>		SP1 @ 4'																				<i>1/16/19</i>		<i>8:55 AM</i>		<i>✓ ✓ ✓</i>											
<i>5</i>		SP2 @ SURFACE																				<i>1/16/19</i>		<i>9:30 AM</i>		<i>✓ ✓ ✓</i>											
<i>6</i>		SP2 @ 2'																				<i>1/16/19</i>		<i>9:51 AM</i>		<i>✓ ✓ ✓</i>											
<i>7</i>		SP2 @ 3'																				<i>1/16/19</i>		<i>10:22 AM</i>		<i>✓ ✓ ✓</i>											
<i>8</i>		SP2 @ 4'																				<i>1/17/19</i>		<i>10:31 AM</i>		<i>✓ ✓ ✓</i>											
<i>9</i>		SP3 @ SURFACE																				<i>1/17/19</i>		<i>10:39 AM</i>		<i>✓ ✓ ✓</i>											
<i>10</i>		SP3 @ 1'																				<i>1/17/19</i>		<i>10:39 AM</i>		<i>✓ ✓ ✓</i>											

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>1-25-19</i>		Received By: <i>Cliff Brunson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>4:00p</i>		Time: <i>1-31-19</i>		Time: <i>0900</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Cliff Brunson</i>		Date: <i>1-31-19</i>		Received By: <i>Samara Oldaker</i>		REMARKS:			
Time: <i>0900</i>		Time: <i>0900</i>		Time: <i>0900</i>					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other: <i>0.1i #97</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>TO</i>		<i>Rush!</i>			
		<input type="checkbox"/> No <input type="checkbox"/> No							

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

2017

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TMTX</div> </div>																	
Address: P.O. Box 805				Company: <i>Oxy</i>																					
City: Hobbs State: NM Zip: 88241				Attn: <i>D. H. Rich</i>																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: Oxy				City:																					
Project Name: South Mattix Federal Fowler SWD (9/19/18)				State: Zip:																					
Project Location: Lea County, NM				Phone #:																					
Sampler Name: Jeff Ornelas				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(GRAB OR C)COMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<i>H906354</i>																									
<i>11</i>	SP3 @ 2'	<i>G</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			1/17/19	10:55 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>12</i>	SP3 @ 3'												1/17/19	11:19 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>13</i>	SP4 @ SURFACE												1/17/19	11:41 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>14</i>	SP4 @ 1'												1/17/19	11:55 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>15</i>	SP4 @ 2'												1/18/19	9:11 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>16</i>	SP4 @ 3'												1/18/19	9:45 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>17</i>	SP5 @ SURFACE												1/18/19	10:15 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>18</i>	SP5 @ 1'												1/18/19	10:50 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>19</i>	SP5 @ 2'												1/18/19	11:22 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								
<i>20</i>	SP5 @ 3'												1/21/19	8:39 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>								

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>11-25-19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:00p</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>1-31-19</i>	Received By: <i>[Signature]</i>	REMARKS:	
	Time: <i>0900</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <i>Other #97</i>	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) <i>T.O.</i>		

*Rush!*

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

3077

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em;"> <span>BTX</span> <span>CI</span> <span>THX</span> </div>																				
Address: P.O. Box 805				Company: Oxy																								
City: Hobbs State: NM Zip: 88241				Attn: [Signature]																								
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																								
Project #: Project Owner: Oxy				City:																								
Project Name: South Mattix Federal Fowler SWD (9/19/18)				State: Zip:																								
Project Location: Lea County, NM				Phone #:																								
Sampler Name: Jeff Ornelas				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	(GRAB OR C/COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING																	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H900354																												
21	SP5 @ 4'	G			✓					✓		1/21/19	9:11 AM	✓	✓	✓												
22	SP6 @ SURFACE	G										1/21/19	9:40 AM	✓	✓	✓												
23	SP6 @ 1'	G										1/21/19	10:15 AM	✓	✓	✓												
24	SP6 @ 2'	G										1/21/19	10:41 AM	✓	✓	✓												
25	SP7 @ SURFACE	G										1/21/19	11:11 AM	✓	✓	✓												
26	SP7 @ 1'	G										1/21/19	11:22 AM	✓	✓	✓												
27	SP7 @ 2'	G										1/21/19	11:50 AM	✓	✓	✓												
28	SP7 @ 3'	G										1/21/19	12:47 PM	✓	✓	✓												
29	SP7 @ 4'	G										1/21/19	1:22 PM	✓	✓	✓												
30	SP8 @ SURFACE	G										1/21/19	1:45 PM	✓	✓	✓												

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Relinquished By: [Signature]	Date: 1/25/19	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:00pm		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]	Date: 1-31-19	Received By: [Signature]	REMARKS:	
	Time: 0900a			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool Intact			
	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	<input type="checkbox"/> No <input type="checkbox"/> No			

Rush!

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

2/8/7

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">THX</div> </div>																			
Address: P.O. Box 805				Company: <i>Oxy</i>																							
City: Hobbs State: NM Zip: 88241				Attn: <i>D. Hinch</i>																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner: Oxy				City:																							
Project Name: South Mattix Federal Fowler SWD (9/19/18)				State: Zip:																							
Project Location: Lea County, NM				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX				PRESERV.		SAMPLING															
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME															
<i>H900354</i>																											
<i>31</i>		SP8 @ 1'		<i>G</i>						<i>✓</i>		1/21/19 2:11 PM		<i>✓ ✓ ✓</i>													
<i>32</i>		SP8 @ 2'								<i>✓</i>		1/21/19 2:22 PM		<i>✓ ✓ ✓</i>													
<i>33</i>		SP8 @ 3'								<i>✓</i>		1/22/19 8:59 AM		<i>✓ ✓ ✓</i>													
<i>34</i>		SP9 @ SURFACE								<i>✓</i>		1/22/19 9:15 AM		<i>✓ ✓ ✓</i>													
<i>35</i>		SP9 @ 1'								<i>✓</i>		1/22/19 9:41 AM		<i>✓ ✓ ✓</i>													
<i>36</i>		SP9 @ 2'								<i>✓</i>		1/22/19 10:15 AM		<i>✓ ✓ ✓</i>													
<i>37</i>		SP10 @ SURFACE								<i>✓</i>		1/22/19 10:57 AM		<i>✓ ✓ ✓</i>													
<i>38</i>		SP10 @ 1'								<i>✓</i>		1/22/19 11:19 AM		<i>✓ ✓ ✓</i>													
<i>39</i>		SP10 @ 2'								<i>✓</i>		1/22/19 1:11 PM		<i>✓ ✓ ✓</i>													
<i>40</i>		SP10 @ 3'								<i>✓</i>		1/22/19 2:15 PM		<i>✓ ✓ ✓</i>													

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>1/25/19</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>4:00pm</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>		Date: <i>1/31/19</i>	Received By: <i>[Signature]</i>	REMARKS:	
Time: <i>6:00</i>					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)	
<i>0.1c #197</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>TP.</i>	
		<input type="checkbox"/> No <input type="checkbox"/> No		<i>Rush!</i>	

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




**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

5 of 7

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH/TKT</div> </div>																			
Address: P.O. Box 805				Company: Oxy																							
City: Hobbs State: NM Zip: 88241				Attn: Dittich																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner: Oxy				City:																							
Project Name: South Mattix Federal Fowler SWD (9/19/18)				State: Zip:																							
Project Location: Lea County, NM				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR C/COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING																
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
H900354																											
41	SP11 @ SURFACE	1			✓				✓			1/23/19	1:01 PM	✓	✓	✓											
42	SP11 @ 1'											1/23/19	1:19 PM	✓	✓	✓											
43	SP11 @ 2'											1/23/19	1:38 PM	✓	✓	✓											
44	SP11 @ 3'											1/23/19	1:57 PM	✓	✓	✓											
45	SP11 @ 4'											1/24/19	10:01 AM	✓	✓	✓											
46	SP11 @ 5'											1/24/19	10:45 AM	✓	✓	✓											
47	SP12 @ SURFACE											1/24/19	11:15 AM	✓	✓	✓											
48	SP12 @ 1'											1/24/19	11:30 AM	✓	✓	✓											
49	SP12 @ 2'											1/24/19	11:51 AM	✓	✓	✓											
50	SP12 @ 3'											1/24/19	12:12 PM	✓	✓	✓											

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Relinquished By: Jeff Ornelas	Date: 1/25/19	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: [Signature]	Date: 1-31-19	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 4:00p	Time: 8:00	REMARKS:	
Sampler - UPS - Bus - Other:	Sample Condition	CHECKED BY: (Initials)		
	Cool Intact			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

Rush!

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

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6 of 7

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																																																																																																																																																																																																							
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH EXT</div> </div>																																																																																																																																																																																																																																							
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City: Hobbs State: NM Zip: 88241				Attn: <i>Ditrich</i>																																																																																																																																																																																																																																											
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Project #: Project Owner: <i>Oxy</i>				City:																																																																																																																																																																																																																																											
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Sampler Name: Jeff Ornelas				Fax #:																																																																																																																																																																																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="font-size: small;">FOR LAB USE ONLY</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">G/RAB OR (C)OMP.</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);"># CONTAINERS</th> <th colspan="6" style="font-size: small;">MATRIX</th> <th colspan="2" style="font-size: small;">PRESERV.</th> <th colspan="2" style="font-size: small;">SAMPLING</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">DATE</th> <th rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">TIME</th> </tr> <tr> <th style="font-size: large;">Lab I.D.</th> <th style="font-size: large;">Sample I.D.</th> <th style="font-size: small;">GROUNDWATER</th> <th style="font-size: small;">WASTEWATER</th> <th style="font-size: small;">SOIL</th> <th style="font-size: small;">OIL</th> <th style="font-size: small;">SLUDGE</th> <th style="font-size: small;">OTHER:</th> <th style="font-size: small;">ACID/BASE:</th> <th style="font-size: small;">ICE / COOL</th> <th style="font-size: small;">OTHER:</th> </tr> </thead> <tbody> <tr> <td><i>H900354</i></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>51</i></td> <td>SP12 @ 4'</td> <td><i>G</i></td> <td><i>1</i></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>1/24/19</td> <td>1:01 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>52</i></td> <td>SP13 @ SURFACE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>1:45 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>53</i></td> <td>SP13 @ 1'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>1:58 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>54</i></td> <td>SP13 @ 2'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>2:15 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>55</i></td> <td>SP14 @ SURFACE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>2:16 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>56</i></td> <td>SP14 @ 1'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>2:22 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>57</i></td> <td>SP14 @ 2'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>2:32 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>58</i></td> <td>SP14 @ 3'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>2:45 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>59</i></td> <td>SP14 @ 4'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/24/19</td> <td>3:16 PM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><i>60</i></td> <td>SP14 @ 5'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1/25/19</td> <td>9:19 AM</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>																FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	<i>H900354</i>																	<i>51</i>	SP12 @ 4'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		1/24/19	1:01 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>52</i>	SP13 @ SURFACE												1/24/19	1:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>53</i>	SP13 @ 1'												1/24/19	1:58 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>54</i>	SP13 @ 2'												1/24/19	2:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>55</i>	SP14 @ SURFACE												1/24/19	2:16 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>56</i>	SP14 @ 1'												1/24/19	2:22 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>57</i>	SP14 @ 2'												1/24/19	2:32 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>58</i>	SP14 @ 3'												1/24/19	2:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>59</i>	SP14 @ 4'												1/24/19	3:16 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>60</i>	SP14 @ 5'												1/25/19	9:19 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Relinquished By: <i>Jeff Ornelas</i> Date: <i>1/25/19</i> Time: <i>7:00pm</i>		Received By: <i>[Signature]</i> Date: <i>1-31-19</i> Time: <i>0900</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By: <i>[Signature]</i> Date: <i>1-31-19</i> Time: <i>0900</i>		Received By: <i>Tamara Oldaker</i> Date: <i>1-31-19</i> Time: <i>0900</i>		CHECKED BY: (Initials) <i>T.O.</i>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>0.1c #97</i>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>Rush!</i>	

Rush!

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 of 7

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Relinquished By: <i>Jeff Dimas</i>		Date: <i>1/25/19</i>	Received By: <i>R. B.</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
		Time: <i>2:00pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Relinquished By: <i>R. B.</i>		Date: <i>1-31-19</i>	Received By: <i>Jamara White</i>	REMARKS:	
		Time: <i>0900</i>			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact		(Initials)	
<i>Q.1c #47</i>		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		<i>TC</i>	
				<i>Rush!</i>	

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