



DELINEATION WORKPLAN

OXY – RIVERBEND 23 FEDERAL #16 (Leak Date: 1/10/19)

RP # 2RP-5240

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5240.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 and SP8 – SP9 (GREEN shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 – SP5 and SP12 (PURPLE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP6 – SP7 and SP13 – SP15 (BLUE shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP10 – P11 (PINK shade on diagram) will be excavated to a depth of 5 feet.

Bottom confirmation samples will be collected at no greater than 75 ft. intervals. Estimated volume of material to be removed is 2,155 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

Incident ID	
District RP	2RP-5240
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	125 (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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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


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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5240
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 5-20-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5240
Facility ID	
Application ID	

Remediation Plan


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

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

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

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

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 5-20-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

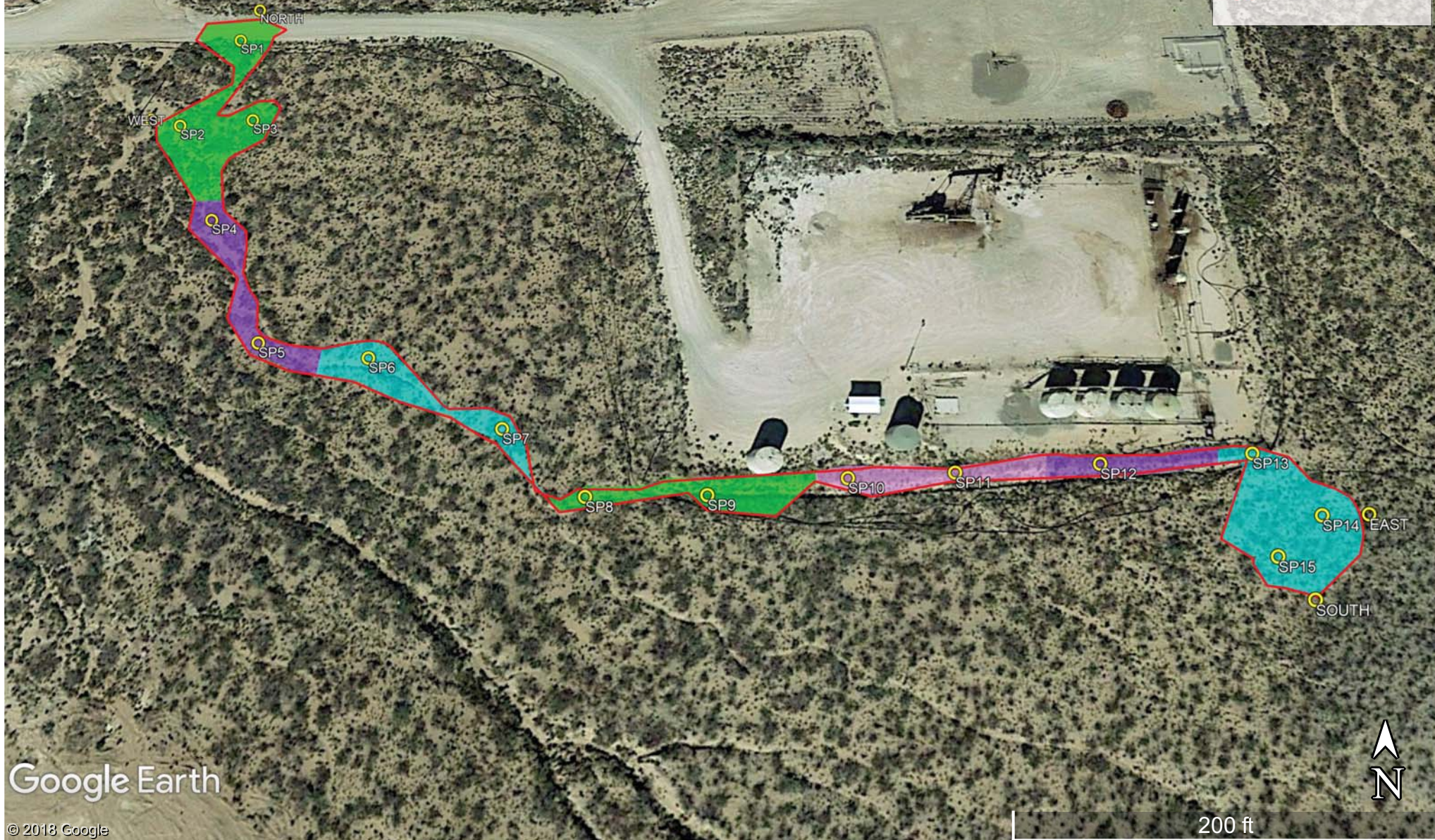
Signature: _____ Date: _____

Oxy, Riverbend 23 Federal #16

Leak date: 1/10/19
Eddy County, NM
API# 30-015-33598
2RP-5240

Legend

- 2 ft Excavation
- 3 ft Excavation
- 4 ft Excavation
- 5 ft Excavation
- Sample points
- Leak Area



Google Earth

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200 ft

Oxy, Riverbend 23 Federal #16

Sample points

SP1, N 32.20434 W-103.96377

SP2, N 32.20416 W-103.96386

SP3, N 32.20417 W-103.96372

SP4, N 32.20397 W-103.96376

SP5, N 32.20374 W-103.96363

SP6, N 32.20371 W-103.96342

SP7, N 32.20359 W-103.96317

SP8, N 32.20348 W-103.96302

SP9, N 32.20348 W-103.96281

SP10, N 32.20351 W-103.96256

SP11, N 32.20351 W-103.96238

SP12, N 32.20353 W-103.96213

SP13, N 32.20354 W-103.96186

SP14, N 32.20344 W-103.96176

SP15, N 32.20338 W-103.96185

NORTH, N 32.20441 W-103.96374

SOUTH, N 32.20332 W-103.96181

EAST, N 32.20344 W-103.96169

WEST, N 32.20417 W-103.96392

Oxy, Riverbend 23 Federal 16
U/L E, Section 23, T24S, R29E
Groundwater: 100'-125'





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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321205103544701

Minimum number of levels = 1

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

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico

Latitude 32°12'05", Longitude 103°54'47" NAD27

Land-surface elevation 3,188 feet above NAVD88

The depth of the well is 452 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1958-10-24		D	227.70				2		U	
1959-03-19		D	227.75				2		U	
1975-12-10		D	231.78				2		U	
1976-01-16		D	237.26				2		U	
1976-12-01		D	230.73				2		U	
1977-01-14		D	230.62				2		U	
1983-02-01		D	235.93				2		U	
1987-10-15		D	233.30				2		S	
1998-01-27		D	231.02				2		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.

Section	Code	Description
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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

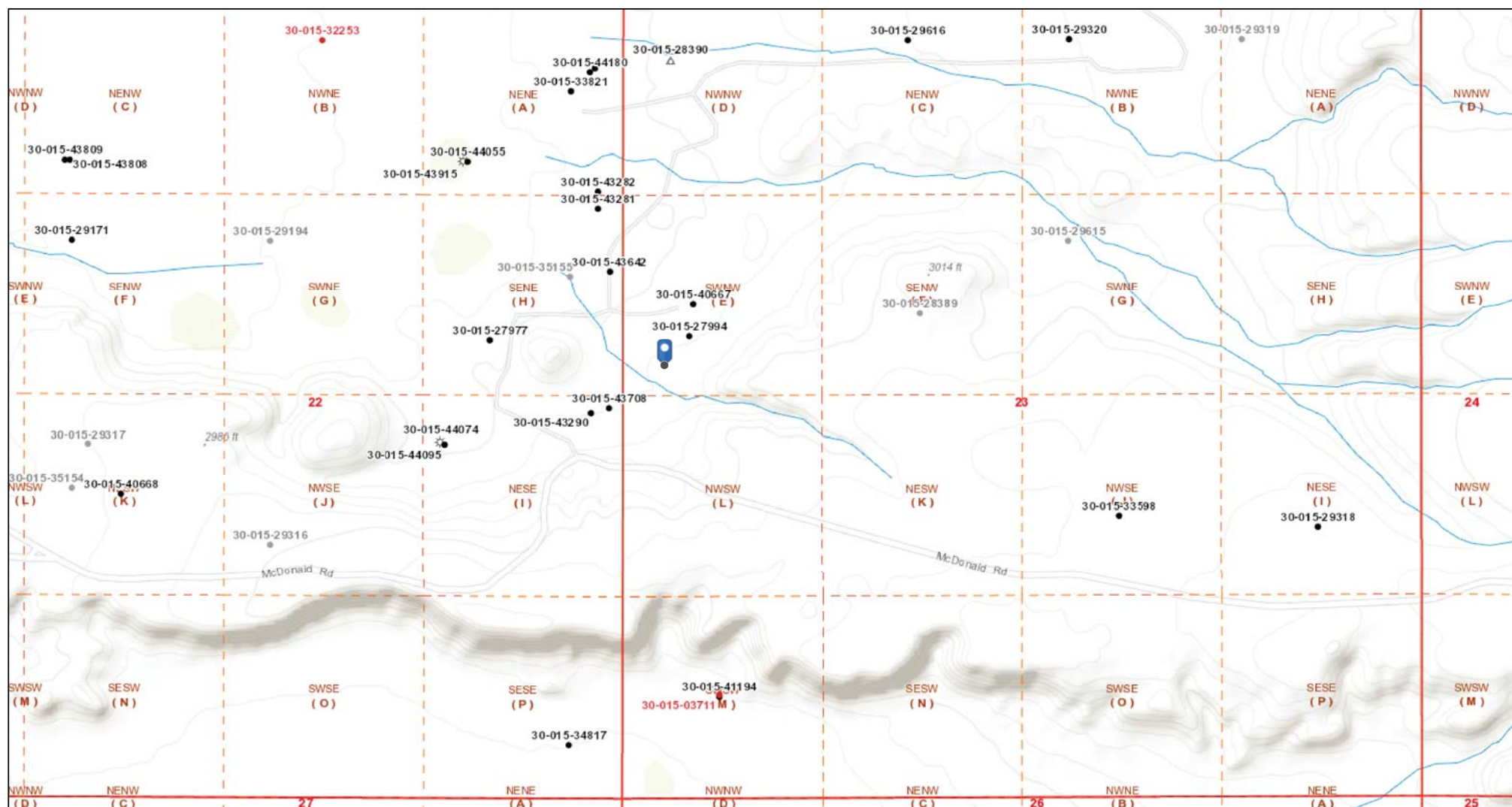


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-02-08 12:38:44 EST

4.17 0.72 nadww01

Riverbend 23 Federal 16, Topo Map with Water Features



1/29/2019 10:02:45 AM

- Well Locations - Small Scale**
- Active
 - New
 - Plugged
 - Cancelled
 - Temporarily Abandoned

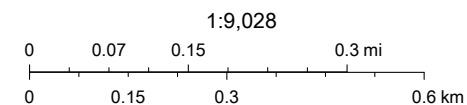
- Well Locations - Large Scale**
- Miscellaneous
 - CO2 Active
 - CO2 Cancelled
 - CO2 New
 - CO2 Plugged
 - CO2 Temporarily Abandoned

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

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

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

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






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

Oxy, Riverbend 23 Federal 16

Leak date: 1/10/19
Eddy County, NM
API# 30-015-33598

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Low potential
-  Medium potential

McDonald Rd

Google Earth

© 2018 Google



1000 ft

National Flood Hazard Layer FIRMette



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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
		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

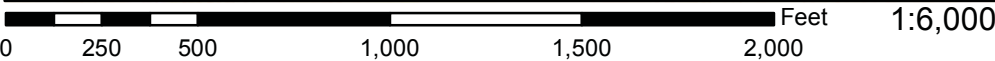


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 2/8/2019 at 12:53:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



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

32°12'8.18"N

103°57'27.50"W

Laboratory Analytical Results Summary
Riverbend 23 Federal #16 (1/10/19)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/5/19	4/5/19	4/5/19	4/5/19	4/5/19	4/5/19
			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	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.234	<0.050	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.654	<0.150	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.888	<0.300	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1730	1900	208	80	32	80
GRO	TPH 8015M		218	<10.0	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		37500	1130	25.7	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		11500	396	27	<10.0	<10.0	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	4/5/19	4/5/19	4/5/19	4/5/19	4/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.15	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.461	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.611	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2480	1280	112	32	32
GRO	TPH 8015M		132	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		39000	1110	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		13600	392	<10.0	<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	4/5/19	4/5/19	4/5/19	4/5/19	4/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.094	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.371	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.989	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		1.45	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1980	720	80	48	48
GRO	TPH 8015M		208	<100	<10.0	<10.0	n/a
DRO	TPH 8015M		35200	4810	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		11200	1610	<10.0	<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	4/5/19	4/5/19	4/5/19	4/5/19	4/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.063	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.157	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.588	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.807	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2560	416	880	160	64
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		16200	342	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		5140	126	<10.0	<10.0	n/a

Laboratory Analytical Results Summary
Riverbend 23 Federal #16 (1/10/19)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	4/5/19	4/5/19	4/5/19	4/8/19	4/8/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.055	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.145	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.557	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.757	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1940	480	640	80	48
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		14100	138	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		4510	53.6	<10.0	<10.0	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19	4/30/19	4/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	<0.300	<0.300
Chloride	SM4500Cl-B		1790	128	112	160	256	n/a	48
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a	<10.0	<10.0
DRO	TPH 8015M		6880	22.5	15.3	679	n/a	<10.0	19.1
EXT DRO	TPH 8015M		2180	11.9	<10.0	211	n/a	<10.0	<10.0

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 4'	SP7 @ 5'
Analyte	Method	Date	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19	4/30/19	4/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.512	<0.050	<0.050	<0.050	n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.92	<0.150	<0.150	<0.150	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		2.43	<0.300	<0.300	<0.300	n/a	<0.300	<0.300
Chloride	SM4500Cl-B		1740	112	96	128	112	n/a	32
GRO	TPH 8015M		183	<10.0	<10.0	<10.0	n/a	<10.0	<10.0
DRO	TPH 8015M		8680	82.9	<10.0	148	n/a	13.3	<10.0
EXT DRO	TPH 8015M		2570	38.6	<10.0	56	n/a	<10.0	<10.0

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'
Analyte	Method	Date	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.664	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		1.94	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		2.6	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		1420	720	320	96	128
GRO	TPH 8015M		208	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		8190	21.1	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2390	<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Riverbend 23 Federal #16 (1/10/19)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'
Analyte	Method	Date	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		9860	880	368	112	64
GRO	TPH 8015M		<50.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		6510	151	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2170	54.3	<10.0	n/a	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'	SP10 @ 4'	SP10 @ 5'	SP10 @ 6'	SP10 @ 7'
Analyte	Method	Date	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19	4/8/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		688	8130	8260	7730	2760	2840	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		162	12	13.6	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		53.3	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'	SP11 @ 4'	SP11 @ 5'	SP11 @ 6'	SP11 @ 7'
Analyte	Method	Date	4/8/19	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19	4/30/19	4/30/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		0.24	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		2.16	<0.050	0.05	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		3.87	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		6.27	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		33600	2880	5120	400	176	1230	32	48
GRO	TPH 8015M		423	<10.0	10.1	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		14000	136	433	148	58	n/a	n/a	n/a
EXT DRO	TPH 8015M		4050	72.9	104	48.1	19.6	n/a	n/a	n/a

		Sample ID	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'	SP12 @ 4'	SP12 @ 5'
Analyte	Method	Date	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19
			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	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		3960	3160	5200	128	112	544
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		150	660	50	24.6	53	n/a
EXT DRO	TPH 8015M		39.1	210	20.1	<10.0	15.8	n/a

Laboratory Analytical Results Summary
Riverbend 23 Federal #16 (1/10/19)

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'	SP13 @ 3'	SP13 @ 4'	SP13 @ 5'
Analyte	Method	Date	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.253	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		12300	1140	1920	1380	704	192
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		14100	58.2	28.2	58.7	n/a	n/a
EXT DRO	TPH 8015M		3890	23.8	<10.0	16.3	n/a	n/a

		Sample ID	SP14 @ SURFACE	SP14 @ 1'	SP14 @ 2'	SP14 @ 3'	SP14 @ 4'	SP14 @ 5'
Analyte	Method	Date	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19	4/9/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.09	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		0.273	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		0.363	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		15000	2400	1680	1490	160	112
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		15800	65.1	131	54.4	n/a	n/a
EXT DRO	TPH 8015M		4660	26.5	32.8	15.5	n/a	n/a

		Sample ID	SP15 @ SURFACE	SP15 @ 1'	SP15 @ 2'	SP15 @ 3'	SP15 @ 4'	SP15 @ 5'
Analyte	Method	Date	4/10/19	4/10/19	4/10/19	4/10/19	4/10/19	4/10/19
			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		6530	976	384	608	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1270	129	97.7	69.8	<10.0	<10.0
EXT DRO	TPH 8015M		470	39.9	28.8	30.4	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	4/10/19	4/10/19	4/10/19	4/10/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	16.5	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

April 24, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND 23 FEDERAL #16 (1/10/19)

Enclosed are the results of analyses for samples received by the laboratory on 04/15/19 16:38.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURFACE	H901381-01	Soil	05-Apr-19 09:30	15-Apr-19 16:38
SP 1 @ 1'	H901381-02	Soil	05-Apr-19 09:41	15-Apr-19 16:38
SP 1 @ 2'	H901381-03	Soil	05-Apr-19 10:16	15-Apr-19 16:38
SP 1 @ 3'	H901381-04	Soil	05-Apr-19 10:33	15-Apr-19 16:38
SP 1 @ 4'	H901381-05	Soil	05-Apr-19 10:49	15-Apr-19 16:38
SP 1 @ 5'	H901381-06	Soil	05-Apr-19 11:11	15-Apr-19 16:38
SP 2 @ SURFACE	H901381-07	Soil	05-Apr-19 11:15	15-Apr-19 16:38
SP 2 @ 1'	H901381-08	Soil	05-Apr-19 11:23	15-Apr-19 16:38
SP 2 @ 2'	H901381-09	Soil	05-Apr-19 11:40	15-Apr-19 16:38
SP 2 @ 3'	H901381-10	Soil	05-Apr-19 11:50	15-Apr-19 16:38
SP 2 @ 4'	H901381-11	Soil	05-Apr-19 12:12	15-Apr-19 16:38
SP 3 @ SURFACE	H901381-12	Soil	05-Apr-19 12:59	15-Apr-19 16:38
SP 3 @ 1'	H901381-13	Soil	05-Apr-19 13:11	15-Apr-19 16:38
SP 3 @ 2'	H901381-14	Soil	05-Apr-19 13:15	15-Apr-19 16:38
SP 3 @ 3'	H901381-15	Soil	05-Apr-19 13:31	15-Apr-19 16:38
SP 3 @ 4'	H901381-16	Soil	05-Apr-19 13:44	15-Apr-19 16:38
SP 4 @ SURFACE	H901381-17	Soil	05-Apr-19 13:47	15-Apr-19 16:38
SP 4 @ 1'	H901381-18	Soil	05-Apr-19 13:55	15-Apr-19 16:38
SP 4 @ 2'	H901381-19	Soil	05-Apr-19 14:09	15-Apr-19 16:38
SP 4 @ 3'	H901381-20	Soil	05-Apr-19 14:22	15-Apr-19 16:38
SP 4 @ 4'	H901381-21	Soil	05-Apr-19 14:39	15-Apr-19 16:38
SP 5 @ SURFACE	H901381-22	Soil	05-Apr-19 14:59	15-Apr-19 16:38
SP 5 @ 1'	H901381-23	Soil	05-Apr-19 15:11	15-Apr-19 16:38
SP 5 @ 2'	H901381-24	Soil	05-Apr-19 15:19	15-Apr-19 16:38
SP 5 @ 3'	H901381-25	Soil	08-Apr-19 09:09	15-Apr-19 16:38
SP 5 @ 4'	H901381-26	Soil	08-Apr-19 09:27	15-Apr-19 16:38
SP 6 @ SURFACE	H901381-27	Soil	08-Apr-19 09:40	15-Apr-19 16:38

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 6 @ 1'	H901381-28	Soil	08-Apr-19 09:45	15-Apr-19 16:38
SP 6 @ 2'	H901381-29	Soil	08-Apr-19 09:57	15-Apr-19 16:38
SP 6 @ 3'	H901381-30	Soil	08-Apr-19 10:15	15-Apr-19 16:38
SP 6 @ 4'	H901381-31	Soil	08-Apr-19 10:31	15-Apr-19 16:38
SP 7 @ SURFACE	H901381-32	Soil	08-Apr-19 10:40	15-Apr-19 16:38
SP 7 @ 1'	H901381-33	Soil	08-Apr-19 10:50	15-Apr-19 16:38
SP 7 @ 2'	H901381-34	Soil	08-Apr-19 11:11	15-Apr-19 16:38
SP 7 @ 3'	H901381-35	Soil	08-Apr-19 11:25	15-Apr-19 16:38
SP 7 @ 4'	H901381-36	Soil	08-Apr-19 11:40	15-Apr-19 16:38
SP 8 @ SURFACE	H901381-37	Soil	08-Apr-19 11:41	15-Apr-19 16:38
SP 8 @ 1'	H901381-38	Soil	08-Apr-19 11:51	15-Apr-19 16:38
SP 8 @ 2'	H901381-39	Soil	08-Apr-19 12:12	15-Apr-19 16:38
SP 8 @ 3'	H901381-40	Soil	08-Apr-19 12:51	15-Apr-19 16:38
SP 8 @ 4'	H901381-41	Soil	08-Apr-19 13:08	15-Apr-19 16:38
SP 9 @ SURFACE	H901381-42	Soil	08-Apr-19 13:15	15-Apr-19 16:38
SP 9 @ 1'	H901381-43	Soil	08-Apr-19 13:22	15-Apr-19 16:38
SP 9 @ 2'	H901381-44	Soil	08-Apr-19 13:33	15-Apr-19 16:38
SP 9 @ 3'	H901381-45	Soil	08-Apr-19 13:45	15-Apr-19 16:38
SP 9 @ 4'	H901381-46	Soil	08-Apr-19 13:57	15-Apr-19 16:38
SP 10 @ SURFACE	H901381-47	Soil	08-Apr-19 13:59	15-Apr-19 16:38
SP 10 @ 1'	H901381-48	Soil	08-Apr-19 14:03	15-Apr-19 16:38
SP 10 @ 2'	H901381-49	Soil	08-Apr-19 14:15	15-Apr-19 16:38
SP 10 @ 3'	H901381-50	Soil	08-Apr-19 14:33	15-Apr-19 16:38
SP 10 @ 4'	H901381-51	Soil	08-Apr-19 14:49	15-Apr-19 16:38
SP 10 @ 5'	H901381-52	Soil	08-Apr-19 15:15	15-Apr-19 16:38
SP 10 @ 6'	H901381-53	Soil	08-Apr-19 15:20	15-Apr-19 16:38
SP 10 @ 7'	H901381-54	Soil	08-Apr-19 15:30	15-Apr-19 16:38
SP 11 @ SURFACE	H901381-55	Soil	08-Apr-19 15:31	15-Apr-19 16:38
SP 11 @ 1'	H901381-56	Soil	09-Apr-19 08:59	15-Apr-19 16:38
SP 11 @ 2'	H901381-57	Soil	09-Apr-19 09:20	15-Apr-19 16:38

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ 3'	H901381-58	Soil	09-Apr-19 09:41	15-Apr-19 16:38
SP 11 @ 4'	H901381-59	Soil	09-Apr-19 09:59	15-Apr-19 16:38
SP 11 @ 5'	H901381-60	Soil	09-Apr-19 10:22	15-Apr-19 16:38
SP 12 @ SURFACE	H901381-61	Soil	09-Apr-19 10:30	15-Apr-19 16:38
SP 12 @ 1'	H901381-62	Soil	09-Apr-19 10:40	15-Apr-19 16:38
SP 12 @ 2'	H901381-63	Soil	09-Apr-19 10:55	15-Apr-19 16:38
SP 12 @ 3'	H901381-64	Soil	09-Apr-19 11:11	15-Apr-19 16:38
SP 12 @ 4'	H901381-65	Soil	09-Apr-19 11:15	15-Apr-19 16:38
SP 12 @ 5'	H901381-66	Soil	09-Apr-19 11:31	15-Apr-19 16:38
SP 13 @ SURFACE	H901381-67	Soil	09-Apr-19 11:45	15-Apr-19 16:38
SP 13 @ 1'	H901381-68	Soil	09-Apr-19 11:55	15-Apr-19 16:38
SP 13 @ 2'	H901381-69	Soil	09-Apr-19 12:12	15-Apr-19 16:38
SP 13 @ 3'	H901381-70	Soil	09-Apr-19 13:11	15-Apr-19 16:38
SP 13 @ 4'	H901381-71	Soil	09-Apr-19 13:22	15-Apr-19 16:38
SP 13 @ 5'	H901381-72	Soil	09-Apr-19 13:40	15-Apr-19 16:38
SP 14 @ SURFACE	H901381-73	Soil	09-Apr-19 13:50	15-Apr-19 16:38
SP 14 @ 1'	H901381-74	Soil	09-Apr-19 14:01	15-Apr-19 16:38
SP 14 @ 2'	H901381-75	Soil	09-Apr-19 14:16	15-Apr-19 16:38
SP 14 @ 3'	H901381-76	Soil	09-Apr-19 14:39	15-Apr-19 16:38
SP 14 @ 4'	H901381-77	Soil	09-Apr-19 14:49	15-Apr-19 16:38
SP 14 @ 5'	H901381-78	Soil	09-Apr-19 15:09	15-Apr-19 16:38
SP 15 @ SURFACE	H901381-79	Soil	10-Apr-19 09:20	15-Apr-19 16:38
SP 15 @ 1'	H901381-80	Soil	10-Apr-19 09:40	15-Apr-19 16:38
SP 15 @ 2'	H901381-81	Soil	10-Apr-19 10:10	15-Apr-19 16:38
SP 15 @ 3'	H901381-82	Soil	10-Apr-19 10:33	15-Apr-19 16:38
SP 15 @ 4'	H901381-83	Soil	10-Apr-19 11:11	15-Apr-19 16:38
SP 15 @ 5'	H901381-84	Soil	10-Apr-19 11:40	15-Apr-19 16:38
NORTH @ SURFACE	H901381-85	Soil	10-Apr-19 12:12	15-Apr-19 16:38
EAST @ SURFACE	H901381-86	Soil	10-Apr-19 12:58	15-Apr-19 16:38
WEST @ SURFACE	H901381-87	Soil	10-Apr-19 13:11	15-Apr-19 16:38

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SOUTH @ SURFACE

H901381-88

Soil

10-Apr-19 13:25

15-Apr-19 16:38

Client added BTEX and TPH to samples -82, -83 and -84 on 04/23/19. This is the revised report with those additions. This report will replace the one sent on 04/23/19.

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 1 @ SURFACE H901381-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1730		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	0.234		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	0.654		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	0.888		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	127 %		73.3-129			9041605	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	218		100	mg/kg	10	9041603	MS	16-Apr-19	8015B	
DRO >C10-C28*	37500		100	mg/kg	10	9041603	MS	16-Apr-19	8015B	
EXT DRO >C28-C36	11500		100	mg/kg	10	9041603	MS	16-Apr-19	8015B	

Surrogate: 1-Chlorooctane	213 %		41-142			9041603	MS	16-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane	1400 %		37.6-147			9041603	MS	16-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 1 @ 1' H901381-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1900		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129 9041605 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
DRO >C10-C28*	1130		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
EXT DRO >C28-C36	396		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	

Surrogate: 1-Chlorooctane 95.6 % 41-142 9041603 MS 16-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 126 % 37.6-147 9041603 MS 16-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 1 @ 2' H901381-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	208		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129 9041605 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
DRO >C10-C28*	25.7		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
EXT DRO >C28-C36	27.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	

Surrogate: 1-Chlorooctane 87.4 % 41-142 9041603 MS 16-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147 9041603 MS 16-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 1 @ 3' H901381-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129 9041605 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041603	MS	16-Apr-19	8015B	

Surrogate: 1-Chlorooctane 95.7 % 41-142 9041603 MS 16-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147 9041603 MS 16-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 1 @ 4' H901381-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		73.3-129	9041605	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			92.3 %		41-142	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			85.4 %		37.6-147	9041613	MS	17-Apr-19	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 1 @ 5'**
H901381-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 2 @ SURFACE

H901381-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2480		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	0.150		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	0.461		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	0.611		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %	73.3-129		9041605	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	132		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	39000		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	13600		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			177 %	41-142		9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			1540 %	37.6-147		9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 2 @ 1' H901381-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1280		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129 9041605 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	1110		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	392		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 95.3 % 41-142 9041613 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 118 % 37.6-147 9041613 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 2 @ 2' H901381-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041605	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041605	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129 9041605 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 91.7 % 41-142 9041613 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147 9041613 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 2 @ 3' H901381-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %		73.3-129	9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			89.1 %		41-142	9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			81.7 %		37.6-147	9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 2 @ 4'**
H901381-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	9041618	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 3 @ SURFACE

H901381-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1980		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	0.094		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	0.371		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	0.989		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	1.45		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		133 %		73.3-129		9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	208		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	35200		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	11200		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane		210 %		41-142		9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane		1300 %		37.6-147		9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 3 @ 1' H901381-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	720		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %		73.3-129			9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	4810		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	1610		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane	100 %		41-142			9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane	251 %		37.6-147			9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 3 @ 2' H901381-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	73.3-129		9041612	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			90.2 %	41-142		9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			83.7 %	37.6-147		9041613	MS	17-Apr-19	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 3 @ 3' H901381-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	73.3-129		9041612	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			87.1 %	41-142		9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			80.7 %	37.6-147		9041613	MS	17-Apr-19	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 3 @ 4'**
H901381-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 4 @ SURFACE

H901381-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2560		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	0.063		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	0.157		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	0.588		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	0.807		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		117 %		73.3-129		9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	16200		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	5140		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane		145 %		41-142		9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane		633 %		37.6-147		9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 4 @ 1' H901381-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	416		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129 9041612 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	342		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	126		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 94.8 % 41-142 9041613 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147 9041613 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/11)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 4 @ 2' H901381-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	880		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.4 %		73.3-129	9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			88.2 %		41-142	9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			81.2 %		37.6-147	9041613	MS	17-Apr-19	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 4 @ 3'
H901381-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	160		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.5 %		73.3-129	9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.0 %		41-142	9041613	MS	17-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.5 %		37.6-147	9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 4 @ 4'**
H901381-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 5 @ SURFACE

H901381-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1940		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	0.055		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	0.145		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	0.557		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	0.757		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		73.3-129	9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	14100		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	4510		100	mg/kg	10	9041613	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			130 %		41-142	9041613	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			572 %		37.6-147	9041613	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 5 @ 1' H901381-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	480		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.7 %		73.3-129	9041612	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	138		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	53.6		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			95.8 %		41-142	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			91.9 %		37.6-147	9041613	MS	17-Apr-19	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 5 @ 2' H901381-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	640		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			95.7 %		73.3-129	9041612	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			86.8 %		41-142	9041613	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			80.6 %		37.6-147	9041613	MS	17-Apr-19	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 5 @ 3' H901381-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.3 %		73.3-129	9041612	ms	17-Apr-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctane			95.1 %		41-142	9041703	MS	17-Apr-19	8015B	
Surrogate: 1-Chlorooctadecane			87.2 %		37.6-147	9041703	MS	17-Apr-19	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 5 @ 4'**
H901381-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 6 @ SURFACE

H901381-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1790		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 9041612 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	6880		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	2180		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 105 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 338 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 6 @ 1' H901381-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129 9041612 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	22.5		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	11.9		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 93.0 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 6 @ 2' H901381-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041612	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041612	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.0 %		73.3-129	9041612	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	15.3		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			93.9 %		41-142	9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			87.3 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 6 @ 3' H901381-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	160		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	679		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	211		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			94.5 %		41-142	9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 6 @ 4'****H901381-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	9041706	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 7 @ SURFACE

H901381-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1740		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	0.512		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	1.92		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	2.43		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 164 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	183		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	8680		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	2570		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 167 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 363 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 7 @ 1' H901381-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	82.9		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	38.6		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 93.1 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 7 @ 2'
H901381-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.7 %		41-142	9041703	MS	17-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.2 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 7 @ 3'
H901381-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	148		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	56.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %		41-142	9041703	MS	17-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.2 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 7 @ 4'****H901381-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 8 @ SURFACE

H901381-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1420		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	0.664		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	1.94		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	2.60		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			190 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	208		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	8190		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	2390		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			174 %		41-142	9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			339 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 8 @ 1' H901381-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	720		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	21.1		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 89.9 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 8 @ 2' H901381-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	320		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			94.3 %		41-142	9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			87.2 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 8 @ 3'****H901381-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 8 @ 4'****H901381-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 9 @ SURFACE

H901381-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	9860		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			123 %	73.3-129		9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<50.0		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	6510		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	2170		50.0	mg/kg	5	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			104 %	41-142		9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			304 %	37.6-147		9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 9 @ 1' H901381-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	880		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	151		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	54.3		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 94.9 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 9 @ 2'
H901381-44 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	368		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.9 %		41-142	9041703	MS	17-Apr-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.2 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 9 @ 3'**
H901381-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 9 @ 4'****H901381-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 10 @ SURFACE

H901381-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	688		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	162		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	53.3		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 96.4 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 10 @ 1' H901381-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	8130		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	12.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 89.5 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 10 @ 2' H901381-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	8260		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	13.6		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 94.7 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 10 @ 3'**
H901381-50 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7730		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 10 @ 4'**
H901381-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2760		16.0	mg/kg	4	9041707	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 10 @ 5'**
H901381-52 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2840		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	QM-07
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 10 @ 6'**
H901381-53 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 10 @ 7'**
H901381-54 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ SURFACE

H901381-55 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	33600		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	0.240		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	2.16		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	3.87		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	6.27		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			80.8 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	423		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	14000		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	4050		100	mg/kg	10	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			143 %		41-142	9041703	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			519 %		37.6-147	9041703	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ 1' H901381-56 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2880		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
DRO >C10-C28*	136		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	72.9		10.0	mg/kg	1	9041703	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 96.9 % 41-142 9041703 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 101 % 37.6-147 9041703 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ 2'

H901381-57 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	5120		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	10.1		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	433		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	104		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			95.7 %		41-142	9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			109 %		37.6-147	9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ 3' H901381-58 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	400		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		73.3-129	9041701	MS	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	148		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	48.1		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			92.4 %		41-142	9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			95.8 %		37.6-147	9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 11 @ 4' H901381-59 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	58.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	19.6		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 91.8 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 11 @ 5'**
H901381-60 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1230		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 12 @ SURFACE

H901381-61 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3960		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041701	MS	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041701	MS	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129 9041701 MS 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	150		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	39.1		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 91.3 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 99.2 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 12 @ 1' H901381-62 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3160		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	660		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	210		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 93.3 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 122 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 12 @ 2' H901381-63 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	5200		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	9041702	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	50.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	20.1		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			90.9 %		41-142	9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			93.3 %		37.6-147	9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 12 @ 3' H901381-64 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	24.6		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 88.0 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 12 @ 4' H901381-65 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	53.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	15.8		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 89.9 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 12 @ 5'**
H901381-66 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	544		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 13 @ SURFACE

H901381-67 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	12300		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	0.253		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	73.3-129		9041702	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	14100		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	3890		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			121 %	41-142		9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			698 %	37.6-147		9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 13 @ 1' H901381-68 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1140		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	58.2		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	23.8		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 88.6 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 13 @ 2' H901381-69 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1920		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	28.2		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 86.5 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 13 @ 3' H901381-70 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1380		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129 9041702 ms 17-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	58.7		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	16.3		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 91.0 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 91.3 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 13 @ 4'**
H901381-71 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	704		16.0	mg/kg	4	9041708	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 13 @ 5'**
H901381-72 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 14 @ SURFACE

H901381-73 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	15000		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Ethylbenzene*	0.090		0.050	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total Xylenes*	0.273		0.150	mg/kg	50	9041702	ms	17-Apr-19	8021B	
Total BTEX	0.363		0.300	mg/kg	50	9041702	ms	17-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		108 %		73.3-129		9041702	ms	17-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	15800		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	4660		100	mg/kg	10	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane		123 %		41-142		9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane		732 %		37.6-147		9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 14 @ 1' H901381-74 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2400		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129 9041702 ms 18-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	65.1		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	26.5		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 92.6 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 14 @ 2' H901381-75 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1680		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129 9041702 ms 18-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	131		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	32.8		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 94.2 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 101 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 14 @ 3' H901381-76 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1490		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129 9041702 ms 18-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	54.4		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	15.5		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane 90.6 % 41-142 9041704 MS 17-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147 9041704 MS 17-Apr-19 8015B

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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 14 @ 4'**
H901381-77 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
24-Apr-19 11:59**SP 14 @ 5'**
H901381-78 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/11)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ SURFACE

H901381-79 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	6530		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			96.6 %		73.3-129	9041702	ms	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
DRO >C10-C28*	1270		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	
EXT DRO >C28-C36	470		10.0	mg/kg	1	9041704	MS	17-Apr-19	8015B	

Surrogate: 1-Chlorooctane			91.4 %		41-142	9041704	MS	17-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			153 %		37.6-147	9041704	MS	17-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ 1' H901381-80 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	976		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	94.9 %		73.3-129			9041702	ms	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	129		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	39.9		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane	89.2 %		41-142			9041803	MS	18-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane	97.0 %		37.6-147			9041803	MS	18-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ 2' H901381-81 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	384		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.4 %		73.3-129	9041702	ms	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	97.7		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	28.8		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane			86.9 %		41-142	9041803	MS	18-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			91.8 %		37.6-147	9041803	MS	18-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ 3' H901381-82 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	608		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9042304	MS	23-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 73.3-129 9042304 MS 23-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
DRO >C10-C28*	69.8		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
EXT DRO >C28-C36	30.4		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	

Surrogate: 1-Chlorooctane 105 % 41-142 9042215 MS 23-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 104 % 37.6-147 9042215 MS 23-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ 4' H901381-83 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9042304	MS	23-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 73.3-129 9042304 MS 23-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	

Surrogate: 1-Chlorooctane 81.9 % 41-142 9042215 MS 23-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 78.4 % 37.6-147 9042215 MS 23-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SP 15 @ 5' H901381-84 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9042304	MS	23-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9042304	MS	23-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129 9042304 MS 23-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9042215	MS	23-Apr-19	8015B	

Surrogate: 1-Chlorooctane 87.7 % 41-142 9042215 MS 23-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 81.9 % 37.6-147 9042215 MS 23-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

NORTH @ SURFACE

H901381-85 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 73.3-129 9041702 ms 18-Apr-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane 90.7 % 41-142 9041803 MS 18-Apr-19 8015B

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147 9041803 MS 18-Apr-19 8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

EAST @ SURFACE

H901381-86 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041702	ms	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041702	ms	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.6 %		73.3-129	9041702	ms	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane			84.4 %		41-142	9041803	MS	18-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			83.0 %		37.6-147	9041803	MS	18-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

WEST @ SURFACE

H901381-87 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041807	MS	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			86.8 %		73.3-129	9041807	MS	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	16.5		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane			90.1 %		41-142	9041803	MS	18-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			90.5 %		37.6-147	9041803	MS	18-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

SOUTH @ SURFACE

H901381-88 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	9041619	AC	17-Apr-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9041807	MS	18-Apr-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9041807	MS	18-Apr-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.2 %		73.3-129	9041807	MS	18-Apr-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9041803	MS	18-Apr-19	8015B	

Surrogate: 1-Chlorooctane			84.7 %		41-142	9041803	MS	18-Apr-19	8015B	
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Surrogate: 1-Chlorooctadecane			83.8 %		37.6-147	9041803	MS	18-Apr-19	8015B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041618 - General Prep - Wet Chem

Blank (9041618-BLK1)

Prepared & Analyzed: 16-Apr-19

Chloride ND 16.0 mg/kg

LCS (9041618-BS1)

Prepared & Analyzed: 16-Apr-19

Chloride 400 16.0 mg/kg 400 100 80-120

LCS Dup (9041618-BSD1)

Prepared & Analyzed: 16-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120 3.92 20

Batch 9041619 - General Prep - Wet Chem

Blank (9041619-BLK1)

Prepared & Analyzed: 16-Apr-19

Chloride ND 16.0 mg/kg

LCS (9041619-BS1)

Prepared & Analyzed: 16-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120

LCS Dup (9041619-BSD1)

Prepared & Analyzed: 16-Apr-19

Chloride 432 16.0 mg/kg 400 108 80-120 3.77 20

Batch 9041706 - General Prep - Wet Chem

Blank (9041706-BLK1)

Prepared & Analyzed: 17-Apr-19

Chloride ND 16.0 mg/kg

LCS (9041706-BS1)

Prepared & Analyzed: 17-Apr-19

Chloride 416 16.0 mg/kg 400 104 80-120

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041706 - General Prep - Wet Chem

LCS Dup (9041706-BSD1)

Prepared & Analyzed: 17-Apr-19

Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
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Batch 9041707 - General Prep - Wet Chem

Blank (9041707-BLK1)

Prepared & Analyzed: 17-Apr-19

Chloride	ND	16.0	mg/kg							
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LCS (9041707-BS1)

Prepared & Analyzed: 17-Apr-19

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (9041707-BSD1)

Prepared & Analyzed: 17-Apr-19

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Batch 9041708 - General Prep - Wet Chem

Blank (9041708-BLK1)

Prepared & Analyzed: 17-Apr-19

Chloride	ND	16.0	mg/kg							
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LCS (9041708-BS1)

Prepared & Analyzed: 17-Apr-19

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (9041708-BSD1)

Prepared & Analyzed: 17-Apr-19

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041605 - Volatiles

Blank (9041605-BLK1)

Prepared & Analyzed: 16-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0994		mg/kg	0.100		99.4	73.3-129			

LCS (9041605-BS1)

Prepared & Analyzed: 16-Apr-19

Benzene	1.92	0.050	mg/kg	2.00		96.2	72.2-131			
Toluene	2.07	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0961		mg/kg	0.100		96.1	73.3-129			

LCS Dup (9041605-BSD1)

Prepared & Analyzed: 16-Apr-19

Benzene	1.93	0.050	mg/kg	2.00		96.6	72.2-131	0.411	6.91	
Toluene	2.11	0.050	mg/kg	2.00		105	71.7-126	1.82	7.12	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	1.55	7.88	
Total Xylenes	6.11	0.150	mg/kg	6.00		102	71.4-125	0.930	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0973		mg/kg	0.100		97.3	73.3-129			

Batch 9041612 - Volatiles

Blank (9041612-BLK1)

Prepared: 16-Apr-19 Analyzed: 17-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0985		mg/kg	0.100		98.5	73.3-129			

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Analytical Results For:

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P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041612 - Volatiles

LCS (9041612-BS1)

Prepared: 16-Apr-19 Analyzed: 17-Apr-19

Benzene	1.85	0.050	mg/kg	2.00		92.7	72.2-131			
Toluene	1.95	0.050	mg/kg	2.00		97.7	71.7-126			
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.1	68.9-126			
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0971		mg/kg	0.100		97.1	73.3-129			

LCS Dup (9041612-BS1)

Prepared: 16-Apr-19 Analyzed: 17-Apr-19

Benzene	1.86	0.050	mg/kg	2.00		93.2	72.2-131	0.514	6.91	
Toluene	1.98	0.050	mg/kg	2.00		99.0	71.7-126	1.30	7.12	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	68.9-126	0.324	7.88	
Total Xylenes	5.75	0.150	mg/kg	6.00		95.8	71.4-125	0.710	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0970		mg/kg	0.100		97.0	73.3-129			

Batch 9041701 - Volatiles

Blank (9041701-BLK1)

Prepared & Analyzed: 17-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	73.3-129			

LCS (9041701-BS1)

Prepared & Analyzed: 17-Apr-19

Benzene	1.86	0.050	mg/kg	2.00		93.1	72.2-131			
Toluene	1.96	0.050	mg/kg	2.00		98.2	71.7-126			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	5.99	0.150	mg/kg	6.00		99.9	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.114		mg/kg	0.100		114	73.3-129			

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Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041701 - Volatiles

LCS Dup (9041701-BS1)

Prepared & Analyzed: 17-Apr-19

Benzene	1.92	0.050	mg/kg	2.00		95.8	72.2-131	2.88	6.91	
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126	2.78	7.12	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	68.9-126	0.476	7.88	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	71.4-125	1.25	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	73.3-129			

Batch 9041702 - Volatiles

Blank (9041702-BLK1)

Prepared & Analyzed: 17-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0960		mg/kg	0.100		96.0	73.3-129			

LCS (9041702-BS1)

Prepared & Analyzed: 17-Apr-19

Benzene	1.97	0.050	mg/kg	2.00		98.7	72.2-131			
Toluene	2.10	0.050	mg/kg	2.00		105	71.7-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.2	68.9-126			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0937		mg/kg	0.100		93.7	73.3-129			

LCS Dup (9041702-BS1)

Prepared & Analyzed: 17-Apr-19

Benzene	1.90	0.050	mg/kg	2.00		94.9	72.2-131	3.93	6.91	
Toluene	2.00	0.050	mg/kg	2.00		99.8	71.7-126	4.96	7.12	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	68.9-126	2.56	7.88	
Total Xylenes	5.83	0.150	mg/kg	6.00		97.1	71.4-125	2.36	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0944		mg/kg	0.100		94.4	73.3-129			

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Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041807 - Volatiles

Blank (9041807-BLK1)

Prepared & Analyzed: 18-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0905		mg/kg	0.100		90.5	73.3-129			

LCS (9041807-BS1)

Prepared & Analyzed: 18-Apr-19

Benzene	2.00	0.050	mg/kg	2.00		99.8	72.2-131			
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126			
Total Xylenes	5.84	0.150	mg/kg	6.00		97.4	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0986		mg/kg	0.100		98.6	73.3-129			

LCS Dup (9041807-BSD1)

Prepared & Analyzed: 18-Apr-19

Benzene	1.84	0.050	mg/kg	2.00		92.1	72.2-131	8.01	6.91	QR-02
Toluene	1.92	0.050	mg/kg	2.00		96.1	71.7-126	4.73	7.12	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.8	68.9-126	5.08	7.88	
Total Xylenes	5.54	0.150	mg/kg	6.00		92.4	71.4-125	5.28	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0958		mg/kg	0.100		95.8	73.3-129			

Batch 9042304 - Volatiles

Blank (9042304-BLK1)

Prepared & Analyzed: 23-Apr-19

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0931		mg/kg	0.100		93.1	73.3-129			

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Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9042304 - Volatiles

LCS (9042304-BS1)

Prepared & Analyzed: 23-Apr-19

Benzene	1.94	0.050	mg/kg	2.00		97.2	72.2-131			
Toluene	1.97	0.050	mg/kg	2.00		98.5	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.5	68.9-126			
Total Xylenes	5.69	0.150	mg/kg	6.00		94.9	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0912		mg/kg	0.100		91.2	73.3-129			

LCS Dup (9042304-BS1)

Prepared & Analyzed: 23-Apr-19

Benzene	1.86	0.050	mg/kg	2.00		92.8	72.2-131	4.63	6.91	
Toluene	1.94	0.050	mg/kg	2.00		97.1	71.7-126	1.38	7.12	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	68.9-126	1.40	7.88	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.4	71.4-125	0.526	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.100		mg/kg	0.100		100	73.3-129			

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P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041603 - General Prep - Organics
Blank (9041603-BLK1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	<i>49.3</i>		mg/kg	<i>50.0</i>		<i>98.6</i>	<i>41-142</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>46.9</i>		mg/kg	<i>50.0</i>		<i>93.8</i>	<i>37.6-147</i>			

LCS (9041603-BS1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133			
DRO >C10-C28	189	10.0	mg/kg	200		94.4	72.9-138			
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	78-132			
<i>Surrogate: 1-Chlorooctane</i>	<i>51.8</i>		mg/kg	<i>50.0</i>		<i>104</i>	<i>41-142</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>47.0</i>		mg/kg	<i>50.0</i>		<i>94.0</i>	<i>37.6-147</i>			

LCS Dup (9041603-BS1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	209	10.0	mg/kg	200		104	76.5-133	3.08	20.6	
DRO >C10-C28	199	10.0	mg/kg	200		99.7	72.9-138	5.43	20.6	
Total TPH C6-C28	408	10.0	mg/kg	400		102	78-132	4.22	18	
<i>Surrogate: 1-Chlorooctane</i>	<i>54.6</i>		mg/kg	<i>50.0</i>		<i>109</i>	<i>41-142</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>49.1</i>		mg/kg	<i>50.0</i>		<i>98.2</i>	<i>37.6-147</i>			

Batch 9041613 - General Prep - Organics
Blank (9041613-BLK1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	<i>48.6</i>		mg/kg	<i>50.0</i>		<i>97.1</i>	<i>41-142</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>45.5</i>		mg/kg	<i>50.0</i>		<i>90.9</i>	<i>37.6-147</i>			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041613 - General Prep - Organics

LCS (9041613-BS1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	199	10.0	mg/kg	200		99.4	76.5-133			
DRO >C10-C28	186	10.0	mg/kg	200		93.1	72.9-138			
Total TPH C6-C28	385	10.0	mg/kg	400		96.2	78-132			
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	41-142			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		91.9	37.6-147			

LCS Dup (9041613-BS1)

Prepared & Analyzed: 16-Apr-19

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	1.42	20.6	
DRO >C10-C28	186	10.0	mg/kg	200		93.0	72.9-138	0.0731	20.6	
Total TPH C6-C28	388	10.0	mg/kg	400		96.9	78-132	0.700	18	
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	37.6-147			

Batch 9041703 - General Prep - Organics

Blank (9041703-BLK1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.3	41-142			
Surrogate: 1-Chlorooctadecane	46.0		mg/kg	50.0		92.0	37.6-147			

LCS (9041703-BS1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	197	10.0	mg/kg	200		98.6	76.5-133			
DRO >C10-C28	179	10.0	mg/kg	200		89.7	72.9-138			
Total TPH C6-C28	377	10.0	mg/kg	400		94.1	78-132			
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041703 - General Prep - Organics

LCS Dup (9041703-BSD1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	3.58	20.6	
DRO >C10-C28	191	10.0	mg/kg	200		95.5	72.9-138	6.25	20.6	
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	78-132	4.86	18	
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	41-142			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	37.6-147			

Batch 9041704 - General Prep - Organics

Blank (9041704-BLK1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.5	41-142			
Surrogate: 1-Chlorooctadecane	45.7		mg/kg	50.0		91.4	37.6-147			

LCS (9041704-BS1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	184	10.0	mg/kg	200		92.1	76.5-133			
DRO >C10-C28	195	10.0	mg/kg	200		97.5	72.9-138			
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	78-132			
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.6	37.6-147			

LCS Dup (9041704-BSD1)

Prepared & Analyzed: 17-Apr-19

GRO C6-C10	185	10.0	mg/kg	200		92.3	76.5-133	0.213	20.6	
DRO >C10-C28	178	10.0	mg/kg	200		88.8	72.9-138	9.34	20.6	
Total TPH C6-C28	362	10.0	mg/kg	400		90.6	78-132	4.58	18	
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108	41-142			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.8	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9041803 - General Prep - Organics

Blank (9041803-BLK1)

Prepared & Analyzed: 18-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.7	41-142			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.8	37.6-147			

LCS (9041803-BS1)

Prepared & Analyzed: 18-Apr-19

GRO C6-C10	186	10.0	mg/kg	200		92.8	76.5-133			
DRO >C10-C28	201	10.0	mg/kg	200		100	72.9-138			
Total TPH C6-C28	386	10.0	mg/kg	400		96.6	78-132			
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	37.6-147			

LCS Dup (9041803-BS1)

Prepared & Analyzed: 18-Apr-19

GRO C6-C10	185	10.0	mg/kg	200		92.7	76.5-133	0.179	20.6	
DRO >C10-C28	186	10.0	mg/kg	200		92.9	72.9-138	7.77	20.6	
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	78-132	4.05	18	
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	41-142			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	37.6-147			

Batch 9042215 - General Prep - Organics

Blank (9042215-BLK1)

Prepared: 22-Apr-19 Analyzed: 23-Apr-19

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0		107	41-142			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.5	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241

Project: RIVERBEND 23 FEDERAL #16 (1/1)
Project Number: NONE GIVEN
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
24-Apr-19 11:59

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 9042215 - General Prep - Organics

LCS (9042215-BS1)

Prepared: 22-Apr-19 Analyzed: 23-Apr-19

GRO C6-C10	213	10.0	mg/kg	200		107	76.5-133		
DRO >C10-C28	203	10.0	mg/kg	200		101	72.9-138		
Total TPH C6-C28	416	10.0	mg/kg	400		104	78-132		
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	41-142		
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	37.6-147		

LCS Dup (9042215-BS1)

Prepared: 22-Apr-19 Analyzed: 23-Apr-19

GRO C6-C10	195	10.0	mg/kg	200		97.5	76.5-133	8.99	20.6
DRO >C10-C28	188	10.0	mg/kg	200		94.2	72.9-138	7.33	20.6
Total TPH C6-C28	383	10.0	mg/kg	400		95.8	78-132	8.18	18
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	41-142		
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.7	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-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

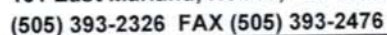
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Celey D. Keene, Lab Director/Quality Manager



Page 107 of 115

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2

Page 108 of 115

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: <i>Oxy</i>																									
City: Hobbs		State: NM Zip: 88241		Attn: <i>Dittrich</i>																									
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																									
Project #:		Project Owner: Oxy		City:																									
Project Name: Riverbend 23 Federal #16 (1/10/19)				State: Zip:																									
Project Location: Eddy County, NM				Phone #:																									
Sampler Name: Jeff Ornelas				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(GRAB OR C/COMP.)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
<i>HQ01381</i>																													
<i>11</i>	SP2 @ 4'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		4/5/19	12:12 PM	<input checked="" type="checkbox"/>														
<i>12</i>	SP3 @ SURFACE												4/5/19	12:59 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>13</i>	SP3 @ 1'												4/5/19	1:11 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>14</i>	SP3 @ 2'												4/5/19	1:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>15</i>	SP3 @ 3'												4/5/19	1:31 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>16</i>	SP3 @ 4'												4/5/19	1:44 PM	<input checked="" type="checkbox"/>														
<i>17</i>	SP4 @ SURFACE												4/5/19	1:47 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>18</i>	SP4 @ 1'												4/5/19	1:55 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>19</i>	SP4 @ 2'												4/5/19	2:09 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>20</i>	SP4 @ 3'												4/5/19	2:22 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>4/10/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:00p</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>4/15/19</i>	Received By: <i>Jodi Munson</i>	REMARKS:	
	Time: <i>16:38</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other: <i>D.52 / #97</i>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3

Page 109 of 115

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: <i>Oxy</i>																									
City: Hobbs		State: NM Zip: 88241		Attn: <i>Dittrich</i>																									
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																									
Project #:		Project Owner: Oxy		City:																									
Project Name: Riverbend 23 Federal #16 (1/10/19)				State: Zip:																									
Project Location: Eddy County, NM				Phone #:																									
Sampler Name: Jeff Ornelas				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(GIRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME															
<i>H901381</i>																													
<i>21</i>	SP4 @ 4'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		4/5/19	2:39 PM	<input checked="" type="checkbox"/>														
<i>22</i>	SP5 @ SURFACE												4/5/19	2:59 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>23</i>	SP5 @ 1'												4/5/19	3:11 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>24</i>	SP5 @ 2'												4/5/19	3:19 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>25</i>	SP5 @ 3'												4/8/19	9:09 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>26</i>	SP5 @ 4'												4/8/19	9:27 AM	<input checked="" type="checkbox"/>														
<i>27</i>	SP6 @ SURFACE												4/8/19	9:40 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>28</i>	SP6 @ 1'												4/8/19	9:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>29</i>	SP6 @ 2'												4/8/19	9:57 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>30</i>	SP6 @ 3'												4/8/19	10:15 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>4/10/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:00</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>4/15/19</i>	Received By: <i>Jodi Benson</i>	REMARKS:	
	Time: <i>16:38</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other: <i>0.5¢ / #97</i>	Cool Intact			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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**CARDINAL LABORATORIES**

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: <i>Oxy</i>																			
City: Hobbs State: NM Zip: 88241				Attn: <i>Nitrich</i>																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																			
Project #: Project Owner: Oxy				City:																			
Project Name: Riverbend 23 Federal #16 (1/10/19)				State: Zip:																			
Project Location: Eddy County, NM				Phone #:																			
Sampler Name: Jeff Ornelas				Fax #:																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
<i>H901381</i>																							
<i>31</i>	SP6 @ 4'	<i>G</i>			<i>✓</i>					<i>✓</i>		4/8/19	10:31 AM	<i>✓</i>	<i>BTX</i>	<i>TPH EXT</i>							
<i>32</i>	SP7 @ SURFACE											4/8/19	10:40 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>33</i>	SP7 @ 1'											4/8/19	10:50 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>34</i>	SP7 @ 2'											4/8/19	11:11 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>35</i>	SP7 @ 3'											4/8/19	11:25 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>36</i>	SP7 @ 4'											4/8/19	11:40 AM	<i>✓</i>									
<i>37</i>	SP8 @ SURFACE											4/8/19	11:41 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>38</i>	SP8 @ 1'											4/8/19	11:51 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>39</i>	SP8 @ 2'											4/8/19	12:12 PM	<i>✓</i>	<i>✓</i>	<i>✓</i>							
<i>40</i>	SP8 @ 3'											4/8/19	12:51 PM	<i>✓</i>									

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>4/10/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>5:00p</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>4/15/19</i>	Received By: <i>Jodi Henson</i>	REMARKS:	
Time: <i>10:38</i>				
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other: <i>0.50c / #97</i>	Cool Intact			
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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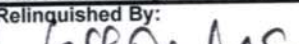



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5

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Relinquished By: 		Date: 4/10/19 Time: 5:00pm		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 		Date: 4/15/19 Time: 16:38		Received By: 		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.50c / #97		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: 		REMARKS:	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: <i>Oxy</i>																						
City: Hobbs State: NM Zip: 88241				Attn: <i>Ditrich</i>																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy				City:																						
Project Name: Riverbend 23 Federal #16 (1/10/19)				State: Zip:																						
Project Location: Eddy County, NM				Phone #:																						
Sampler Name: Jeff Ornelas				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	G/RAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
<i>H901381</i>																										
<i>51</i>	SP10 @ 4'	<i>G</i>			<i>✓</i>					<i>✓</i>		4/8/19	2:49 PM	<i>✓</i>												
<i>52</i>	SP10 @ 5'											4/8/19	3:15 PM	<i>✓</i>												
<i>53</i>	SP10 @ 6'											4/8/19	3:20 PM	<i>✓</i>												
<i>54</i>	SP10 @ 7'											4/8/19	3:30 PM	<i>✓</i>												
<i>55</i>	SP11 @ SURFACE											4/8/19	3:31 PM	<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>56</i>	SP11 @ 1'											4/9/19	8:59 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>57</i>	SP11 @ 2'											4/9/19	9:20 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>58</i>	SP11 @ 3'											4/9/19	9:41 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>59</i>	SP11 @ 4'											4/9/19	9:59 AM	<i>✓</i>	<i>✓</i>	<i>✓</i>										
<i>60</i>	SP11 @ 5'											4/9/19	10:22 AM	<i>✓</i>												

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>4/10/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:00pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date: <i>4/15/19</i>	Received By: <i>Jodi Henson</i>	REMARKS:	
	Time: <i>16:38</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>JH</i>		
Sampler - UPS - Bus - Other: <i>0.50c/H97</i>	Cool Intact			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Jeff Omelas</i>		Date: <i>4/10/19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>5:00pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: <i>4/15/19</i>	Received By:	REMARKS:	
		Time: <i>16:38</i>	<i>Jodi Benson</i>		
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other: <i>0.50 / #97</i>		Sample Condition	CHECKED BY:		
		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
			<i>JS</i>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 114 of 115

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:																					
Address: P.O. Box 805				Company: <i>Oxy</i>																					
City: Hobbs		State: NM Zip: 88241		Attn: <i>Diffrich</i>																					
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																					
Project #:		Project Owner: Oxy		City:																					
Project Name: Riverbend 23 Federal #16 (1/10/19)				State: Zip:																					
Project Location: Eddy County, NM				Phone #:																					
Sampler Name: Jeff Ornelas				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER																			
						WASTEWATER																			
						SOIL																			
						OIL																			
						SLUDGE																			
						OTHER :																			
						ACID/BASE:																			
						ICE / COOL																			
						OTHER :																			
										DATE		TIME													
<i>H9D13581</i>				<i>G</i>																					
<i>71</i>		SP13 @ 4'										4/9/19		1:22 PM											
<i>72</i>		SP13 @ 5'										4/9/19		1:40 PM											
<i>73</i>		SP14 @ SURFACE										4/9/19		1:50 PM											
<i>74</i>		SP14 @ 1'										4/9/19		2:01 PM											
<i>75</i>		SP14 @ 2'										4/9/19		2:16 PM											
<i>76</i>		SP14 @ 3'										4/9/19		2:39 PM											
<i>77</i>		SP14 @ 4'										4/9/19		2:49 PM											
<i>78</i>		SP14 @ 5'										4/9/19		3:09 PM											
<i>79</i>		SP15 @ SURFACE										4/10/19		9:20 AM											
<i>80</i>		SP15 @ 1'										4/10/19		9:40 AM											

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>4/10/19</i>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>5:00p</i>		Date: <i>4/15/19</i>		Received By: <i>Joeli Benson</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: <i>4/15/19</i>		Time: <i>16:38</i>		REMARKS:			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <i>[Signature]</i>					
Sampler - UPS - Bus - Other: <i>0.50c / #97</i>		Cool Intact							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

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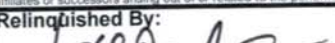
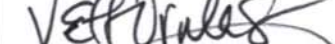




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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 115 of 115

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Relinquished By: 		Date: 7/10/19 Time: 5:00 PM		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 		Date: 7/15/19 Time: 16:38		Received By: 		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.50 / #97		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY:  (Initials)			

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May 06, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND 23 FEDERAL #16 (1/10/19)

Enclosed are the results of analyses for samples received by the laboratory on 05/02/19 11:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/02/2019	Sampling Date:	04/30/2019
Reported:	05/06/2019	Sampling Type:	Soil
Project Name:	RIVERBEND 23 FEDERAL #16 (1/10/19)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 6 @ 4' (H901586-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2019	ND	2.00	99.8	2.00	2.33	
Toluene*	<0.050	0.050	05/04/2019	ND	1.99	99.3	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/04/2019	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	05/04/2019	ND	5.56	92.7	6.00	3.19	
Total BTEX	<0.300	0.300	05/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 73.3-129

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	05/03/2019	ND	216	108	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/03/2019	ND	203	101	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	05/03/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 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:	05/02/2019	Sampling Date:	04/30/2019
Reported:	05/06/2019	Sampling Type:	Soil
Project Name:	RIVERBEND 23 FEDERAL #16 (1/10/19)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 6 @ 5' (H901586-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2019	ND	2.00	99.8	2.00	2.33		
Toluene*	<0.050	0.050	05/04/2019	ND	1.99	99.3	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/04/2019	ND	2.00	99.9	2.00	2.87		
Total Xylenes*	<0.150	0.150	05/04/2019	ND	5.56	92.7	6.00	3.19		
Total BTEx	<0.300	0.300	05/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/06/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2019	ND	216	108	200	6.27	
DRO >C10-C28*	19.1	10.0	05/03/2019	ND	203	101	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	05/03/2019	ND					

Surrogate: 1-Chlorooctane 96.5 % 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:	05/02/2019	Sampling Date:	04/30/2019
Reported:	05/06/2019	Sampling Type:	Soil
Project Name:	RIVERBEND 23 FEDERAL #16 (1/10/19)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 7 @ 4' (H901586-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2019	ND	2.00	99.8	2.00	2.33		
Toluene*	<0.050	0.050	05/04/2019	ND	1.99	99.3	2.00	3.04		
Ethylbenzene*	<0.050	0.050	05/04/2019	ND	2.00	99.9	2.00	2.87		
Total Xylenes*	<0.150	0.150	05/04/2019	ND	5.56	92.7	6.00	3.19		
Total BTEx	<0.300	0.300	05/04/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 73.3-129

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	05/03/2019	ND	216	108	200	6.27	
DRO >C10-C28*	13.3	10.0	05/03/2019	ND	203	101	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	05/03/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

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Received:	05/02/2019	Sampling Date:	04/30/2019
Reported:	05/06/2019	Sampling Type:	Soil
Project Name:	RIVERBEND 23 FEDERAL #16 (1/10/19)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 7 @ 5' (H901586-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2019	ND	2.00	99.8	2.00	2.33	
Toluene*	<0.050	0.050	05/04/2019	ND	1.99	99.3	2.00	3.04	
Ethylbenzene*	<0.050	0.050	05/04/2019	ND	2.00	99.9	2.00	2.87	
Total Xylenes*	<0.150	0.150	05/04/2019	ND	5.56	92.7	6.00	3.19	
Total BTEx	<0.300	0.300	05/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/06/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2019	ND	216	108	200	6.27	
DRO >C10-C28*	<10.0	10.0	05/03/2019	ND	203	101	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	05/03/2019	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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

Received:	05/02/2019	Sampling Date:	04/30/2019
Reported:	05/06/2019	Sampling Type:	Soil
Project Name:	RIVERBEND 23 FEDERAL #16 (1/10/19)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: SP 11 @ 6' (H901586-05)

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	05/06/2019	ND	400	100	400	0.00	

Sample ID: SP 11 @ 7' (H901586-06)

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	05/06/2019	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 5-2-19 Time:		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 		Date: 5-2-19 Time: 11:55		Received By: 		REMARKS:	
Delivered By: (Circle One)		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials)		-2-20 #07 	
Sampler - UPS - Bus - Other:							

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