



DELINEATION WORKPLAN

OXY – CEDAR CANYON 16-1 (Leak Date: 2/3/19 & 2/4/19)

RP # 2RP-5282

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5282.

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 is requesting a deferment of full remediation activities until the decommissioning of this facility due to the existing production equipment and piping preventing full access.

However, OXY proposes to perform some partial remediation and will excavate the entire spill area as depicted on the following site diagram to a depth of no greater than 1 foot. (BLUE shade on diagram)

Estimated volume of material to be removed is 205 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-5282
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	52 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input checked="" type="checkbox"/> Yes <input 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-5282
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: 3-8-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5282
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: 3-8-19
 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, Cedar Canyon 16-1

Leak dates: 2/3/19 to 2/4/19
Eddy County, NM
2RP-5282

Legend

-  Sample points
-  Leak Areas 2-3-19 and 2-4-19
-  Surface Removal no greater than 1 ft, then deferral



Google Earth

© 2018 Google

100 ft

Oxy, Cedar Canyon 16-1 Battery

Sample points

SP1, N 32.22403 W-103.99537

SP2, N 32.22400 W-103.99543

SP3, N 32.22391 W-103.99545

SP4, N 32.22394 W-103.99539

SP5, N 32.22383 W-103.99544

SP6, N 32.22385 W-103.99537

SP7, N 32.22372 W-103.99543

SP8, N 32.22372 W-103.99535

SP9, N 32.22380 W-103.99529

NORTH, N 32.22408 W-103.99540

SOUTH, N 32.22367 W-103.99541

EAST, N 32.22379 W-103.99525

WEST, N 32.22386 W-103.99547

Oxy, Cedar Canyon 16-1 Battery
U/L D, Section 16, T24S, R29E
Groundwater: 50'-75'





USGS Home
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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 =

- 321355104012001

Minimum number of levels = 1

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

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico

Latitude 32°13'55", Longitude 104°01'20" NAD27

Land-surface elevation 2,983 feet above NAVD88

The depth of the well is 160 feet below land surface.

This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

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

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

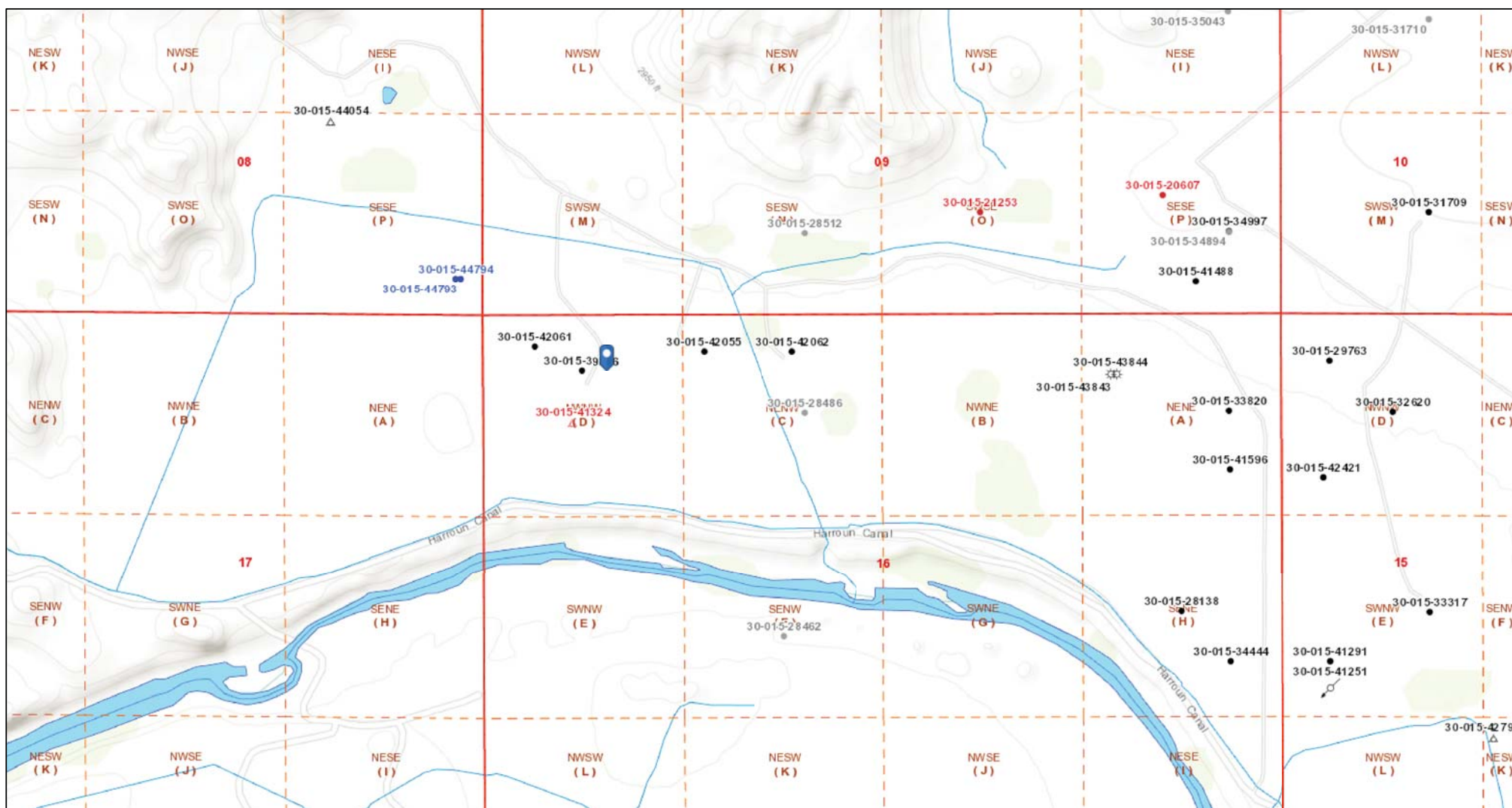
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

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

Page Last Modified: 2019-02-25 14:06:32 EST

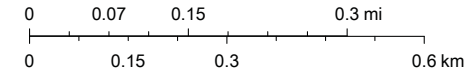
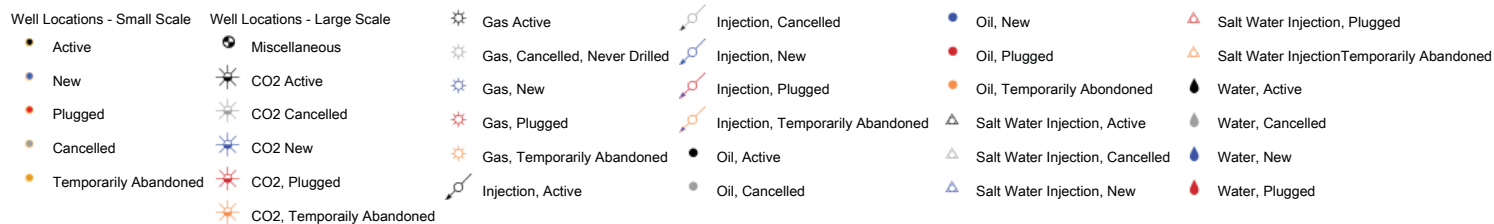
0.66 0.63 nadww01

Cedar Canyon 16-1 Battery



2/25/2019 11:30:34 AM

1:9,028





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

Oxy, Cedar Canyon 16-1 Battery

Leak date: 2/3/19 and 2/4/19
Eddy County, NM

BLM CAVE KARST MAP

Legend

-  Leak Areas 2-3-19 and 2-4-19
-  Medium potential



National Flood Hazard Layer FIRMette



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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
		Profile Baseline
		Hydrographic Feature
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 2/25/2019 at 2:18:15 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.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

32°13'10.64"N

103°59'24.60"W

Laboratory Analytical Results Summary
Cedar Canyon 16-1 Battery (2/3/19 2/4/19)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'
Analyte	Method	Date	2/19/19	2/19/19	2/19/19	2/19/19	2/19/19	2/19/19	2/19/19
			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
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	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
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	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
Chloride	SM4500Cl-B		35200	6660	6130	6000	1600	112	160
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		78.6	<10.0	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	2/19/19	2/19/19	2/19/19	2/19/19	2/19/19	2/19/19
			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
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		36400	2000	784	848	160	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		92.1	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	2/19/19	2/19/19	2/20/19	2/20/19	2/20/19	2/20/19
			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		<0.150	<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		36000	2840	1780	1020	240	176
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		146	<10.0	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		22	<10.0	<10.0	<10.0	n/a	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	2/20/19	2/20/19	2/20/19	2/20/19	2/20/19
			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		0.16	<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		1.43	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		1.59	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		46400	2080	688	176	272
GRO	TPH 8015M		62.9	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		330	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		33.9	<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Cedar Canyon 16-1 Battery (2/3/19 2/4/19)

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'	SP5 @ 8'
Analyte	Method	Date	2/20/19	2/20/19	2/20/19	2/20/19	2/20/19	2/20/19	2/21/19	2/21/19	2/21/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.18	0.565	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.298	0.711	<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.69	4.08	<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		2.16	5.36	<0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		52000	62600	2360	768	2360	496	832	16	96
GRO	TPH 8015M		73.1	54.6	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		417	449	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		46.2	72	<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 5'
Analyte	Method	Date	2/20/19	2/20/19	2/20/19	2/21/19	2/21/19	2/21/19
			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		<0.150	<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		105000	928	160	208	32	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		17.4	195	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	50.6	<10.0	<10.0	n/a	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'
Analyte	Method	Date	2/21/19	2/21/19	2/21/19	2/21/19	2/21/19	2/21/19
			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		0.758	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		1.03	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		6.5	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		8.29	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		69600	14800	3600	208	224	128
GRO	TPH 8015M		211	<10.0	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		9500	<10.0	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		1710	<10.0	<10.0	<10.0	n/a	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'	SP8 @ 4'	SP8 @ 5'
Analyte	Method	Date	2/21/19	2/21/19	2/21/19	2/21/19	2/21/19	2/21/19
			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		0.523	0.381	0.1	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.724	3.36	0.598	0.151	<0.050	<0.050
Total Xylenes	BTEX 8021B		4.86	2.1	1.21	0.305	<0.150	<0.150
Total BTEX	BTEX 8021B		6.1	5.84	1.91	0.456	<0.300	<0.300
Chloride	SM4500Cl-B		33600	1100	368	272	32	32
GRO	TPH 8015M		160	148	27.6	10.7	<10.0	<10.0
DRO	TPH 8015M		4340	2010	443	233	<10.0	<10.0
EXT DRO	TPH 8015M		1760	302	47.3	24.6	<10.0	<10.0

Laboratory Analytical Results Summary
Cedar Canyon 16-1 Battery (2/3/19 2/4/19)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'	SP9 @ 4'
Analyte	Method	Date	2/21/19	2/22/19	2/22/19	2/22/19	2/22/19
			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		0.257	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.458	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		2.76	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		3.47	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		32000	4400	1410	160	128
GRO	TPH 8015M		121	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		3800	<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		1350	<10.0	<10.0	n/a	n/a

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	2/22/19	2/22/19	2/22/19	2/22/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		80	48	112	288
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

March 07, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 16-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/26/19 9:20.

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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURFACE	H900716-01	Soil	19-Feb-19 09:47	26-Feb-19 09:20
SP 1 @ 1'	H900716-02	Soil	19-Feb-19 10:01	26-Feb-19 09:20
SP 1 @ 2'	H900716-03	Soil	19-Feb-19 10:15	26-Feb-19 09:20
SP 1 @ 3'	H900716-04	Soil	19-Feb-19 10:33	26-Feb-19 09:20
SP 1 @ 4'	H900716-05	Soil	19-Feb-19 11:11	26-Feb-19 09:20
SP 1 @ 5'	H900716-06	Soil	19-Feb-19 11:45	26-Feb-19 09:20
SP 1 @ 6'	H900716-07	Soil	19-Feb-19 12:19	26-Feb-19 09:20
SP 2 @ SURFACE	H900716-08	Soil	19-Feb-19 13:01	26-Feb-19 09:20
SP 2 @ 1'	H900716-09	Soil	19-Feb-19 13:25	26-Feb-19 09:20
SP 2 @ 2'	H900716-10	Soil	19-Feb-19 13:51	26-Feb-19 09:20
SP 2 @ 3'	H900716-11	Soil	19-Feb-19 13:59	26-Feb-19 09:20
SP 2 @ 4'	H900716-12	Soil	19-Feb-19 14:19	26-Feb-19 09:20
SP 2 @ 5'	H900716-13	Soil	19-Feb-19 14:33	26-Feb-19 09:20
SP 3 @ SURFACE	H900716-14	Soil	19-Feb-19 14:49	26-Feb-19 09:20
SP 3 @ 1'	H900716-15	Soil	19-Feb-19 15:11	26-Feb-19 09:20
SP 3 @ 2'	H900716-16	Soil	20-Feb-19 10:15	26-Feb-19 09:20
SP 3 @ 3'	H900716-17	Soil	20-Feb-19 10:33	26-Feb-19 09:20
SP 3 @ 4'	H900716-18	Soil	20-Feb-19 10:51	26-Feb-19 09:20
SP 3 @ 5'	H900716-19	Soil	20-Feb-19 11:09	26-Feb-19 09:20
SP 4 @ SURFACE	H900716-20	Soil	20-Feb-19 11:15	26-Feb-19 09:20
SP 4 @ 1'	H900716-21	Soil	20-Feb-19 11:31	26-Feb-19 09:20
SP 4 @ 2'	H900716-22	Soil	20-Feb-19 11:51	26-Feb-19 09:20
SP 4 @ 3'	H900716-23	Soil	20-Feb-19 12:20	26-Feb-19 09:20
SP 4 @ 4'	H900716-24	Soil	20-Feb-19 13:01	26-Feb-19 09:20
SP 5 @ SURFACE	H900716-25	Soil	20-Feb-19 13:15	26-Feb-19 09:20
SP 5 @ 1'	H900716-26	Soil	20-Feb-19 13:18	26-Feb-19 09:20
SP 5 @ 2'	H900716-27	Soil	20-Feb-19 13:30	26-Feb-19 09:20

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*=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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 5 @ 3'	H900716-28	Soil	20-Feb-19 13:40	26-Feb-19 09:20
SP 5 @ 4'	H900716-29	Soil	20-Feb-19 13:50	26-Feb-19 09:20
SP 5 @ 5'	H900716-30	Soil	20-Feb-19 14:01	26-Feb-19 09:20
SP 5 @ 6'	H900716-31	Soil	21-Feb-19 10:49	26-Feb-19 09:20
SP 5 @ 7'	H900716-32	Soil	21-Feb-19 11:11	26-Feb-19 09:20
SP 5 @ 8'	H900716-33	Soil	21-Feb-19 12:20	26-Feb-19 09:20
SP 6 @ SURFACE	H900716-34	Soil	20-Feb-19 14:15	26-Feb-19 09:20
SP 6 @ 1'	H900716-35	Soil	20-Feb-19 14:33	26-Feb-19 09:20
SP 6 @ 2'	H900716-36	Soil	20-Feb-19 15:01	26-Feb-19 09:20
SP 6 @ 3'	H900716-37	Soil	21-Feb-19 11:45	26-Feb-19 09:20
SP 6 @ 4'	H900716-38	Soil	21-Feb-19 11:55	26-Feb-19 09:20
SP 6 @ 5'	H900716-39	Soil	21-Feb-19 12:12	26-Feb-19 09:20
SP 7 @ SURFACE	H900716-40	Soil	21-Feb-19 12:15	26-Feb-19 09:20
SP 7 @ 1'	H900716-41	Soil	21-Feb-19 12:49	26-Feb-19 09:20
SP 7 @ 2'	H900716-42	Soil	21-Feb-19 13:11	26-Feb-19 09:20
SP 7 @ 3'	H900716-43	Soil	21-Feb-19 13:28	26-Feb-19 09:20
SP 7 @ 4'	H900716-44	Soil	21-Feb-19 13:41	26-Feb-19 09:20
SP 7 @ 5'	H900716-45	Soil	21-Feb-19 13:59	26-Feb-19 09:20
SP 8 @ SURFACE	H900716-46	Soil	21-Feb-19 14:09	26-Feb-19 09:20
SP 8 @ 1'	H900716-47	Soil	21-Feb-19 14:22	26-Feb-19 09:20
SP 8 @ 2'	H900716-48	Soil	21-Feb-19 14:41	26-Feb-19 09:20
SP 8 @ 3'	H900716-49	Soil	21-Feb-19 15:04	26-Feb-19 09:20
SP 8 @ 4'	H900716-50	Soil	21-Feb-19 15:11	26-Feb-19 09:20
SP 8 @ 5'	H900716-51	Soil	21-Feb-19 15:15	26-Feb-19 09:20
SP 9 @ SURFACE	H900716-52	Soil	21-Feb-19 15:16	26-Feb-19 09:20
SP 9 @ 1'	H900716-53	Soil	22-Feb-19 10:10	26-Feb-19 09:20
SP 9 @ 2'	H900716-54	Soil	22-Feb-19 10:30	26-Feb-19 09:20
SP 9 @ 3'	H900716-55	Soil	22-Feb-19 10:52	26-Feb-19 09:20
SP 9 @ 4'	H900716-56	Soil	22-Feb-19 11:11	26-Feb-19 09:20
NORTH @ SURFACE	H900716-57	Soil	22-Feb-19 13:05	26-Feb-19 09:20

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

EAST@ SURFACE	H900716-58	Soil	22-Feb-19 13:10	26-Feb-19 09:20
WEST@ SURFACE	H900716-59	Soil	22-Feb-19 13:20	26-Feb-19 09:20
SOUTH @ SURFACE	H900716-60	Soil	22-Feb-19 13:25	26-Feb-19 09:20

Client added BTEX and TPH to samples -50 and -51 on 03/05/19. This is the revised report with the additional analysis requested. This report will replace the one sent on 03/04/19.

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 1 @ SURFACE H900716-01 (Soil)

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

Inorganic Compounds

Chloride	35200		16.0	mg/kg	4	9022709	AC	27-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	73.3-129		9022608	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	78.6		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			101 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			114 %	37.6-147		9022609	MS	26-Feb-19	8015B	

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*=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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 1 @ 1' H900716-02 (Soil)

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

Inorganic Compounds

Chloride	6660		16.0	mg/kg	4	9022709	AC	27-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	73.3-129		9022608	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			98.2 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			106 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 1 @ 2' H900716-03 (Soil)

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

Inorganic Compounds

Chloride	6130		16.0	mg/kg	4	9022709	AC	27-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022608	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		9022608	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane			107 %	41-142		9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 1 @ 3'**
H900716-04 (Soil)

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

Chloride	6000		16.0	mg/kg	4	9022709	AC	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 1 @ 4'**
H900716-05 (Soil)

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

Chloride	1600		16.0	mg/kg	4	9022709	AC	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 1 @ 5'**
H900716-06 (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	9022709	AC	27-Feb-19	4500-Cl-B	
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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, 88241Project: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 1 @ 6'**
H900716-07 (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	9022709	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 2 @ SURFACE

H900716-08 (Soil)

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

Inorganic Compounds

Chloride	36400		16.0	mg/kg	4	9022709	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022608	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		73.3-129	9022608	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	92.1		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane			103 %		41-142	9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			117 %		37.6-147	9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 2 @ 1' H900716-09 (Soil)

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

Inorganic Compounds

Chloride	2000		16.0	mg/kg	4	9022709	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022608	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022608	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		73.3-129	9022608	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane			101 %		41-142	9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			109 %		37.6-147	9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 2 @ 2' H900716-10 (Soil)

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

Inorganic Compounds

Chloride	784		16.0	mg/kg	4	9022709	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.2 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			104 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			111 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 2 @ 3'**
H900716-11 (Soil)

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

Chloride	848		16.0	mg/kg	4	9022709	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 2 @ 4'**
H900716-12 (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	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 2 @ 5'**
H900716-13 (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	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 3 @ SURFACE

H900716-14 (Soil)

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

Inorganic Compounds

Chloride	36000		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.8 %		73.3-129	9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	146		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	22.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane			108 %		41-142	9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			124 %		37.6-147	9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 3 @ 1' H900716-15 (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	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			106 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			114 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 3 @ 2' H900716-16 (Soil)

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

Inorganic Compounds

Chloride	1780		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			106 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			111 %	37.6-147		9022609	MS	26-Feb-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, 88241

Project: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 3 @ 3' H900716-17 (Soil)

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

Inorganic Compounds

Chloride	1020		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			106 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			113 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 3 @ 4'**
H900716-18 (Soil)

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

Chloride	240		16.0	mg/kg	4	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 3 @ 5'**
H900716-19 (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	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 4 @ SURFACE

H900716-20 (Soil)

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

Inorganic Compounds

Chloride	46400		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	0.160		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	1.43		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	1.59		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %		73.3-129	9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	62.9		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	330		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	33.9		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane			108 %		41-142	9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		37.6-147	9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 4 @ 1' H900716-21 (Soil)

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

Inorganic Compounds

Chloride	2080		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			104 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			110 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 4 @ 2' H900716-22 (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	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctane			106 %	41-142		9022609	MS	26-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			114 %	37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 4 @ 3'**
H900716-23 (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	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 4 @ 4'**
H900716-24 (Soil)

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

Chloride	272		16.0	mg/kg	4	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 5 @ SURFACE

H900716-25 (Soil)

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

Inorganic Compounds

Chloride	52000		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	0.180		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	0.298		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	1.69		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	2.16		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		115 %	73.3-129			9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	73.1		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	417		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	46.2		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane		110 %	41-142			9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		130 %	37.6-147			9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 5 @ 1' H900716-26 (Soil)

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

Inorganic Compounds

Chloride	62600		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	0.565		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	0.711		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	4.08		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	5.36		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		126 %		73.3-129		9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	54.6		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
DRO >C10-C28*	449		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	
EXT DRO >C28-C36	72.0		10.0	mg/kg	1	9022609	MS	26-Feb-19	8015B	

Surrogate: 1-Chlorooctane		106 %		41-142		9022609	MS	26-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		128 %		37.6-147		9022609	MS	26-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 5 @ 2' H900716-27 (Soil)

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

Inorganic Compounds

Chloride	2360		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctane			99.2 %	41-142		9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			104 %	37.6-147		9022610	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 5 @ 3' H900716-28 (Soil)

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

Inorganic Compounds

Chloride	768		16.0	mg/kg	4	9022809	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.8 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctane			103 %	41-142		9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			113 %	37.6-147		9022610	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 5 @ 4'**
H900716-29 (Soil)

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

Chloride	2360		16.0	mg/kg	4	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 5 @ 5'****H900716-30 (Soil)**

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

Chloride	496		16.0	mg/kg	4	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 5 @ 6'**
H900716-31 (Soil)

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

Chloride	832		16.0	mg/kg	4	9022809	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 5 @ 7'**
H900716-32 (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	9022810	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 5 @ 8'**
H900716-33 (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	9022810	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 6 @ SURFACE

H900716-34 (Soil)

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

Inorganic Compounds

Chloride	105000		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.5 %		73.3-129	9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
DRO >C10-C28*	17.4		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			95.2 %		41-142	9022610	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			106 %		37.6-147	9022610	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 6 @ 1' H900716-35 (Soil)

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

Inorganic Compounds

Chloride	928		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.0 %	73.3-129		9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
DRO >C10-C28*	195		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	50.6		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctane			93.8 %	41-142		9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			115 %	37.6-147		9022610	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 6 @ 2' H900716-36 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.8 %		73.3-129	9022707	ms	27-Feb-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctane			97.6 %		41-142	9022610	MS	27-Feb-19	8015B	
Surrogate: 1-Chlorooctadecane			106 %		37.6-147	9022610	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 6 @ 3' H900716-37 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	27-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	27-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %		73.3-129	9022707	ms	27-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			99.0 %		41-142	9022613	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		37.6-147	9022613	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 6 @ 4'**
H900716-38 (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	9022810	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 6 @ 5'**
H900716-39 (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	9022810	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 7 @ SURFACE

H900716-40 (Soil)

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

Inorganic Compounds

Chloride	69600		16.0	mg/kg	4	9022810	AC	28-Feb-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	9022707	ms	28-Feb-19	8021B	
Toluene*	0.758		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Ethylbenzene*	1.03		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total Xylenes*	6.50		0.150	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total BTEX	8.29		0.300	mg/kg	50	9022707	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		141 %		73.3-129		9022707	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	211		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
DRO >C10-C28*	9500		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	1710		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane		128 %		41-142		9022613	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		437 %		37.6-147		9022613	MS	27-Feb-19	8015B	
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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, 88241

Project: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 7 @ 1'
H900716-41 (Soil)

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

Inorganic Compounds

Chloride	14800		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	28-Feb-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.3 %		73.3-129	9022707	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %		41-142	9022613	MS	28-Feb-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %		37.6-147	9022613	MS	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 7 @ 2'
H900716-42 (Soil)

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

Inorganic Compounds

Chloride	3600		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	28-Feb-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	73.3-129		9022707	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.4 %	41-142		9022613	MS	27-Feb-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	37.6-147		9022613	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 7 @ 3' H900716-43 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022707	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022707	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9022707	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			98.6 %	41-142		9022613	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	37.6-147		9022613	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 7 @ 4'****H900716-44 (Soil)**

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

Chloride	224		16.0	mg/kg	4	9022810	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 7 @ 5'**
H900716-45 (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	9022810	AC	28-Feb-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, 88241

Project: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ SURFACE

H900716-46 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	0.523		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	0.724		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	4.86		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	6.10		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			125 %	73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	160		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
DRO >C10-C28*	4340		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	1760		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			143 %	41-142		9022616	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			497 %	37.6-147		9022616	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ 1' H900716-47 (Soil)

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

Inorganic Compounds

Chloride	1100		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	0.381		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	3.36		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	2.10		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	5.84		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %	73.3-129			9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	148		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
DRO >C10-C28*	2010		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	302		10.0	mg/kg	1	9022613	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane		117 %	41-142			9022613	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		162 %	37.6-147			9022613	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ 2' H900716-48 (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	9022810	AC	28-Feb-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	9022708	ms	28-Feb-19	8021B	
Toluene*	0.100		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	0.598		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	1.21		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	1.91		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		156 %		73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	27.6		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
DRO >C10-C28*	443		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	47.3		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane		94.5 %		41-142		9022616	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		115 %		37.6-147		9022616	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ 3' H900716-49 (Soil)

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

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	0.151		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	0.305		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	0.456		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	10.7		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
DRO >C10-C28*	233		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	24.6		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			102 %	41-142		9022616	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			123 %	37.6-147		9022616	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ 4' H900716-50 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.1 %	73.3-129		9030603	ms	06-Mar-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
Surrogate: 1-Chlorooctane			74.2 %	41-142		9030513	MS	05-Mar-19	8015B	
Surrogate: 1-Chlorooctadecane			78.3 %	37.6-147		9030513	MS	05-Mar-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 8 @ 5' H900716-51 (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	9022810	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9030603	ms	06-Mar-19	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %		73.3-129	9030603	ms	06-Mar-19	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9030513	MS	05-Mar-19	8015B	
Surrogate: 1-Chlorooctane			85.5 %		41-142	9030513	MS	05-Mar-19	8015B	
Surrogate: 1-Chlorooctadecane			88.1 %		37.6-147	9030513	MS	05-Mar-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 9 @ SURFACE

H900716-52 (Soil)

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

Inorganic Compounds

Chloride	32000		16.0	mg/kg	4	9022704	AC	28-Feb-19	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	0.257		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	0.458		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	2.76		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	3.47		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		126 %		73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	121		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
DRO >C10-C28*	3800		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	1350		10.0	mg/kg	1	9022616	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane		161 %		41-142		9022616	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane		436 %		37.6-147		9022616	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 9 @ 1' H900716-53 (Soil)

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

Inorganic Compounds

Chloride	4400		16.0	mg/kg	4	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	

Surrogate: 1-Chlorooctane			103 %		41-142	9022616	MS	28-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			115 %		37.6-147	9022616	MS	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SP 9 @ 2' H900716-54 (Soil)

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

Inorganic Compounds

Chloride	1410		16.0	mg/kg	4	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022616	MS	28-Feb-19	8015B	

Surrogate: 1-Chlorooctane			95.7 %	41-142		9022616	MS	28-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	37.6-147		9022616	MS	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 9 @ 3'**
H900716-55 (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	9022704	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
07-Mar-19 11:19**SP 9 @ 4'**
H900716-56 (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	9022704	AC	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

NORTH @ SURFACE

H900716-57 (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	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		73.3-129	9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022613	MS	28-Feb-19	8015B	

Surrogate: 1-Chlorooctane			80.4 %		41-142	9022613	MS	28-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			81.3 %		37.6-147	9022613	MS	28-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

EAST@ SURFACE

H900716-58 (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	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.3-129		9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			88.0 %	41-142		9022712	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			91.4 %	37.6-147		9022712	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

WEST@ SURFACE

H900716-59 (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	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			98.3 %		41-142	9022712	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		37.6-147	9022712	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

SOUTH @ SURFACE

H900716-60 (Soil)

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

Inorganic Compounds

Chloride	288		16.0	mg/kg	4	9022704	AC	28-Feb-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9022708	ms	28-Feb-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9022708	ms	28-Feb-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.7 %		73.3-129	9022708	ms	28-Feb-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9022712	MS	27-Feb-19	8015B	

Surrogate: 1-Chlorooctane			102 %		41-142	9022712	MS	27-Feb-19	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		37.6-147	9022712	MS	27-Feb-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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022704 - General Prep - Wet Chem

Blank (9022704-BLK1)

Prepared & Analyzed: 27-Feb-19

Chloride ND 16.0 mg/kg

LCS (9022704-BS1)

Prepared & Analyzed: 27-Feb-19

Chloride 416 16.0 mg/kg 400 104 80-120

LCS Dup (9022704-BSD1)

Prepared & Analyzed: 27-Feb-19

Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20

Batch 9022709 - General Prep - Wet Chem

Blank (9022709-BLK1)

Prepared & Analyzed: 27-Feb-19

Chloride ND 16.0 mg/kg

LCS (9022709-BS1)

Prepared & Analyzed: 27-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (9022709-BSD1)

Prepared & Analyzed: 27-Feb-19

Chloride 432 16.0 mg/kg 400 108 80-120 0.00 20

Batch 9022809 - General Prep - Wet Chem

Blank (9022809-BLK1)

Prepared & Analyzed: 28-Feb-19

Chloride ND 16.0 mg/kg

LCS (9022809-BS1)

Prepared & Analyzed: 28-Feb-19

Chloride 416 16.0 mg/kg 400 104 80-120

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022809 - General Prep - Wet Chem

LCS Dup (9022809-BSD1)

Prepared & Analyzed: 28-Feb-19

Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
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Batch 9022810 - General Prep - Wet Chem

Blank (9022810-BLK1)

Prepared & Analyzed: 28-Feb-19

Chloride	ND	16.0	mg/kg							
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LCS (9022810-BS1)

Prepared & Analyzed: 28-Feb-19

Chloride	448	16.0	mg/kg	400		112	80-120			
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LCS Dup (9022810-BSD1)

Prepared & Analyzed: 28-Feb-19

Chloride	448	16.0	mg/kg	400		112	80-120	0.00	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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022608 - Volatiles

Blank (9022608-BLK1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-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)	0.101		mg/kg	0.100		101	73.3-129			

LCS (9022608-BS1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

Benzene	2.20	0.050	mg/kg	2.00		110	72.2-131			
Toluene	2.05	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	68.9-126			
Total Xylenes	6.46	0.150	mg/kg	6.00		108	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0969		mg/kg	0.100		96.9	73.3-129			

LCS Dup (9022608-BSD1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

Benzene	2.17	0.050	mg/kg	2.00		108	72.2-131	1.43	6.91	
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126	1.71	7.12	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	68.9-126	0.696	7.88	
Total Xylenes	6.46	0.150	mg/kg	6.00		108	71.4-125	0.107	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0977		mg/kg	0.100		97.7	73.3-129			

Batch 9022707 - Volatiles

Blank (9022707-BLK1)

Prepared & Analyzed: 27-Feb-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)	0.0986		mg/kg	0.100		98.6	73.3-129			

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022707 - Volatiles

LCS (9022707-BS1)

Prepared & Analyzed: 27-Feb-19

Benzene	2.13	0.050	mg/kg	2.00		106	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.3	71.7-126			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126			
Total Xylenes	6.29	0.150	mg/kg	6.00		105	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0972		mg/kg	0.100		97.2	73.3-129			

LCS Dup (9022707-BS1)

Prepared & Analyzed: 27-Feb-19

Benzene	2.15	0.050	mg/kg	2.00		108	72.2-131	1.20	6.91	
Toluene	2.01	0.050	mg/kg	2.00		101	71.7-126	1.28	7.12	
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	68.9-126	1.51	7.88	
Total Xylenes	6.43	0.150	mg/kg	6.00		107	71.4-125	2.13	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0965		mg/kg	0.100		96.5	73.3-129			

Batch 9022708 - Volatiles

Blank (9022708-BLK1)

Prepared: 27-Feb-19 Analyzed: 28-Feb-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)	0.100		mg/kg	0.100		100	73.3-129			

LCS (9022708-BS1)

Prepared: 27-Feb-19 Analyzed: 28-Feb-19

Benzene	2.13	0.050	mg/kg	2.00		107	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.7	71.7-126			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	68.9-126			
Total Xylenes	6.48	0.150	mg/kg	6.00		108	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0991		mg/kg	0.100		99.1	73.3-129			

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022708 - Volatiles

LCS Dup (9022708-BSD1)

Prepared: 27-Feb-19 Analyzed: 28-Feb-19

Benzene	2.17	0.050	mg/kg	2.00		108	72.2-131	1.60	6.91	
Toluene	2.01	0.050	mg/kg	2.00		101	71.7-126	1.01	7.12	
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	68.9-126	0.757	7.88	
Total Xylenes	6.52	0.150	mg/kg	6.00		109	71.4-125	0.571	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0970		mg/kg	0.100		97.0	73.3-129			

Batch 9030603 - Volatiles

Blank (9030603-BLK1)

Prepared & Analyzed: 06-Mar-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)	0.0947		mg/kg	0.100		94.7	73.3-129			

LCS (9030603-BS1)

Prepared & Analyzed: 06-Mar-19

Benzene	1.80	0.050	mg/kg	2.00		89.8	72.2-131			
Toluene	1.68	0.050	mg/kg	2.00		83.8	71.7-126			
Ethylbenzene	1.72	0.050	mg/kg	2.00		86.2	68.9-126			
Total Xylenes	5.37	0.150	mg/kg	6.00		89.4	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0878		mg/kg	0.100		87.8	73.3-129			

LCS Dup (9030603-BSD1)

Prepared & Analyzed: 06-Mar-19

Benzene	1.76	0.050	mg/kg	2.00		88.1	72.2-131	1.93	6.91	
Toluene	1.63	0.050	mg/kg	2.00		81.5	71.7-126	2.80	7.12	
Ethylbenzene	1.69	0.050	mg/kg	2.00		84.4	68.9-126	2.14	7.88	
Total Xylenes	5.26	0.150	mg/kg	6.00		87.7	71.4-125	1.93	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0884		mg/kg	0.100		88.4	73.3-129			

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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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022609 - General Prep - Organics

Blank (9022609-BLK1)

Prepared & Analyzed: 26-Feb-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	53.8		mg/kg	50.0		108	41-142			
Surrogate: 1-Chlorooctadecane	56.2		mg/kg	50.0		112	37.6-147			

LCS (9022609-BS1)

Prepared & Analyzed: 26-Feb-19

GRO C6-C10	227	10.0	mg/kg	200		114	76.5-133			
DRO >C10-C28	241	10.0	mg/kg	200		121	72.9-138			
Total TPH C6-C28	469	10.0	mg/kg	400		117	78-132			
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0		115	41-142			
Surrogate: 1-Chlorooctadecane	60.0		mg/kg	50.0		120	37.6-147			

LCS Dup (9022609-BS1)

Prepared & Analyzed: 26-Feb-19

GRO C6-C10	239	10.0	mg/kg	200		120	76.5-133	4.99	20.6	
DRO >C10-C28	250	10.0	mg/kg	200		125	72.9-138	3.77	20.6	
Total TPH C6-C28	490	10.0	mg/kg	400		122	78-132	4.37	18	
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	41-142			
Surrogate: 1-Chlorooctadecane	60.2		mg/kg	50.0		120	37.6-147			

Batch 9022610 - General Prep - Organics

Blank (9022610-BLK1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-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	53.1		mg/kg	50.0		106	41-142			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022610 - General Prep - Organics

LCS (9022610-BS1)

Prepared & Analyzed: 26-Feb-19

GRO C6-C10	227	10.0	mg/kg	200		114	76.5-133		
DRO >C10-C28	267	10.0	mg/kg	200		134	72.9-138		
Total TPH C6-C28	495	10.0	mg/kg	400		124	78-132		
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	41-142		
Surrogate: 1-Chlorooctadecane	59.4		mg/kg	50.0		119	37.6-147		

LCS Dup (9022610-BS1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

GRO C6-C10	232	10.0	mg/kg	200		116	76.5-133	1.84	20.6
DRO >C10-C28	241	10.0	mg/kg	200		120	72.9-138	10.4	20.6
Total TPH C6-C28	473	10.0	mg/kg	400		118	78-132	4.60	18
Surrogate: 1-Chlorooctane	57.7		mg/kg	50.0		115	41-142		
Surrogate: 1-Chlorooctadecane	59.0		mg/kg	50.0		118	37.6-147		

Batch 9022613 - General Prep - Organics

Blank (9022613-BLK1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-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	49.9		mg/kg	50.0		99.7	41-142		
Surrogate: 1-Chlorooctadecane	53.5		mg/kg	50.0		107	37.6-147		

LCS (9022613-BS1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

GRO C6-C10	187	10.0	mg/kg	200		93.7	76.5-133		
DRO >C10-C28	180	10.0	mg/kg	200		89.9	72.9-138		
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	78-132		
Surrogate: 1-Chlorooctane	60.7		mg/kg	50.0		121	41-142		
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022613 - General Prep - Organics

LCS Dup (9022613-BSD1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

GRO C6-C10	197	10.0	mg/kg	200		98.4	76.5-133	4.91	20.6	
DRO >C10-C28	195	10.0	mg/kg	200		97.7	72.9-138	8.28	20.6	
Total TPH C6-C28	392	10.0	mg/kg	400		98.0	78-132	6.58	18	
Surrogate: 1-Chlorooctane	62.5		mg/kg	50.0		125	41-142			
Surrogate: 1-Chlorooctadecane	62.0		mg/kg	50.0		124	37.6-147			

Batch 9022616 - General Prep - Organics

Blank (9022616-BLK1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-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	53.9		mg/kg	50.0		108	41-142			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	37.6-147			

LCS (9022616-BS1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

GRO C6-C10	232	10.0	mg/kg	200		116	76.5-133			
DRO >C10-C28	276	10.0	mg/kg	200		138	72.9-138			
Total TPH C6-C28	507	10.0	mg/kg	400		127	78-132			
Surrogate: 1-Chlorooctane	57.9		mg/kg	50.0		116	41-142			
Surrogate: 1-Chlorooctadecane	61.4		mg/kg	50.0		123	37.6-147			

LCS Dup (9022616-BSD1)

Prepared: 26-Feb-19 Analyzed: 27-Feb-19

GRO C6-C10	235	10.0	mg/kg	200		118	76.5-133	1.60	20.6	
DRO >C10-C28	246	10.0	mg/kg	200		123	72.9-138	11.4	20.6	
Total TPH C6-C28	482	10.0	mg/kg	400		120	78-132	5.24	18	
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	41-142			
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9022712 - General Prep - Organics

Blank (9022712-BLK1)

Prepared & Analyzed: 27-Feb-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	56.2		mg/kg	50.0		112	37.6-147			

LCS (9022712-BS1)

Prepared & Analyzed: 27-Feb-19

GRO C6-C10	201	10.0	mg/kg	200		100	76.5-133			
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138			
Total TPH C6-C28	413	10.0	mg/kg	400		103	78-132			
Surrogate: 1-Chlorooctane	63.9		mg/kg	50.0		128	41-142			
Surrogate: 1-Chlorooctadecane	64.4		mg/kg	50.0		129	37.6-147			

LCS Dup (9022712-BS1)

Prepared & Analyzed: 27-Feb-19

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	1.31	20.6	
DRO >C10-C28	197	10.0	mg/kg	200		98.4	72.9-138	7.30	20.6	
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132	3.01	18	
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	41-142			
Surrogate: 1-Chlorooctadecane	63.3		mg/kg	50.0		127	37.6-147			

Batch 9030513 - General Prep - Organics

Blank (9030513-BLK1)

Prepared & Analyzed: 05-Mar-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	48.0		mg/kg	50.0		96.0	41-142			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	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: CEDAR CANYON 16-1 BATTERY
Project Number: (2/3/19 & 2/4/19)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
07-Mar-19 11:19

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 9030513 - General Prep - Organics

LCS (9030513-BS1)

Prepared & Analyzed: 05-Mar-19

GRO C6-C10	214	10.0	mg/kg	200		107	76.5-133			
DRO >C10-C28	227	10.0	mg/kg	200		113	72.9-138			
Total TPH C6-C28	441	10.0	mg/kg	400		110	78-132			
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	37.6-147			

LCS Dup (9030513-BS1)

Prepared & Analyzed: 05-Mar-19

GRO C6-C10	214	10.0	mg/kg	200		107	76.5-133	0.225	20.6	
DRO >C10-C28	227	10.0	mg/kg	200		113	72.9-138	0.0556	20.6	
Total TPH C6-C28	440	10.0	mg/kg	400		110	78-132	0.138	18	
Surrogate: 1-Chlorooctane	54.9		mg/kg	50.0		110	41-142			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 76 of 81

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:																					
Address: P.O. Box 805				Company: <i>OKY Wade</i>																					
City: Hobbs State: NM Zip: 88241				Attn:																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: Oxy				City:																					
Project Name: Cedar Canyon 16-1 Battery (2/3/19 & 2/4/19)				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)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		C/	BTEX	TPH EXT												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL	OTHER:	DATE	TIME								
<i>H900716</i>																									
<i>1</i>	SP1 @ SURFACE	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>		2/19/19	9:47 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>2</i>	SP1 @ 1'															2/19/19	10:01 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>3</i>	SP1 @ 2'															2/19/19	10:15 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>4</i>	SP1 @ 3'															2/19/19	10:33 AM	<input checked="" type="checkbox"/>							
<i>5</i>	SP1 @ 4'															2/19/19	11:11 AM	<input checked="" type="checkbox"/>							
<i>6</i>	SP1 @ 5'															2/19/19	11:45 AM	<input checked="" type="checkbox"/>							
<i>7</i>	SP1 @ 6'															2/19/19	12:19 PM	<input checked="" type="checkbox"/>							
<i>8</i>	SP2 @ SURFACE															2/19/19	1:01 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<i>9</i>	SP2 @ 1'												2/19/19	1:25 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
<i>10</i>	SP2 @ 2'												2/19/19	1:51 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>2/22/19</i> Time: <i>5:00pm</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>AF OS</i>	Date: <i>2-26-19</i> Time: <i>07:20</i>	Received By: <i>Jennifer</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS: <i>3/5/19: BTEX + TPH Ext. added as per Jennifer to # 50451. JTA</i>
Sampler - UPS - Bus - Other:	<i>4.9°C #9</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>VO</i>

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 77 of 81

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>Wade</i>																
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																
Project #: Project Owner: Oxy				City:																
Project Name: Cedar Canyon 16-1 Battery (2/3/19 & 2/4/19)				State: Zip:																
Project Location: Eddy County, NM				Phone #:																
Sampler Name: Jeff Ornelas				Fax #:																
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING		<i>BTX</i> <i>TPH</i>										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:							ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
<i>H900716</i>																				
<i>11</i>	SP2 @ 3'	<i>G</i>	<i>1</i>			<i>✓</i>										<i>✓</i>			2/19/19	1:59 PM
<i>12</i>	SP2 @ 4'																		2/19/19	2:19 PM
<i>13</i>	SP2 @ 5'																		2/19/19	2:33 PM
<i>14</i>	SP3 @ SURFACE																		2/19/19	2:49 PM
<i>15</i>	SP3 @ 1'																		2/19/19	3:11 PM
<i>16</i>	SP3 @ 2'												2/20/19	10:15 AM						
<i>17</i>	SP3 @ 3'												2/20/19	10:33 AM						
<i>18</i>	SP3 @ 4'												2/20/19	10:51 AM						
<i>19</i>	SP3 @ 5'												2/20/19	11:09 AM						
<i>20</i>	SP4 @ SURFACE												2/20/19	11:15 AM						

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Relinquished By:	Date: <i>2-22-19</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff Ornelas</i>	Time: <i>5:00pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <i>2-26-19</i>	Received By:	REMARKS:	
<i>Jeff Ornelas</i>	Time: <i>0920</i>	<i>Amara Eldredge</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>JO</i>		

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



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2/08/69 9 of 81

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST5 of 1
Page 80 of 81

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>CI</div> <div>BTEX</div> <div>TPH EXT</div> <div>BTEX Added</div> <div>TPH EXT Added</div> </div>											
Address: P.O. Box 805				Company: <i>Oxy Wade</i>															
City: Hobbs State: NM Zip: 88241				Attn:															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: Oxy				City:															
Project Name: Cedar Canyon 16-1 Battery (2/3/19 & 2/4/19)				State: Zip:															
Project Location: Eddy County, NM				Phone #:															
Sampler Name: Jeff Ornelas				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<i>H900716</i>																			
<i>41</i>	SP7 @ 1'					✓							2/21/19	12:49pm	✓	✓			
<i>42</i>	SP7 @ 2'												2/21/19	1:11pm	✓	✓			
<i>43</i>	SP7 @ 3'												2/21/19	1:28pm	✓	✓			
<i>44</i>	SP7 @ 4'												2/21/19	1:41pm	✓				
<i>45</i>	SP7 @ 5'												2/21/19	1:59pm	✓				
<i>46</i>	SP8 @ SURFACE												2/21/19	2:09pm	✓	✓			
<i>47</i>	SP8 @ 1'												2/21/19	2:22pm	✓	✓			
<i>48</i>	SP8 @ 2'												2/21/19	2:41pm	✓	✓			
<i>49</i>	SP8 @ 3'												2/21/19	3:04pm	✓	✓			
<i>50</i>	SP8 @ 4'												2/21/19	3:11pm	✓				

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

Relinquished By: <i>Jeff Ornelas</i>	Date: <i>2-22-19</i> Time: <i>5:00pm</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Jeff Ornelas</i>	Date: <i>2-26-19</i> Time: <i>07:20</i>	Received By: <i>Janora Aldabek</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	<i>4.9c #97</i>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
		CHECKED BY: (Initials) <i>TO</i>		

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

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6084

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX Added</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Est Added</div> </div>											
Address: P.O. Box 805				Company: <i>Oxy</i>															
City: Hobbs State: NM Zip: 88241				Attn: <i>Wade</i>															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:															
Project #: Project Owner: Oxy				City:															
Project Name: Cedar Canyon 16-1 Battery (2/3/19 & 2/4/19)				State: Zip:															
Project Location: Eddy County, NM				Phone #:															
Sampler Name: Jeff Ornelas				Fax #:															

Lab I.D.	Sample I.D.	G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	TPH	BTEX Added	TPH Est Added	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :								
<i>H900716</i>																			
<i>51</i>	SP8 @ 5'											2/21/19	3:15 PM	✓					
<i>52</i>	SP9 @ SURFACE											2/21/19	3:16 PM	✓	✓	✓	*	*	
<i>53</i>	SP9 @ 1'											2/22/19	10:10 AM	✓	✓	✓			
<i>54</i>	SP9 @ 2'											2/22/19	10:30 AM	✓	✓	✓			
<i>55</i>	SP9 @ 3'											2/22/19	10:52 AM	✓					
<i>56</i>	SP9 @ 4'											2/22/19	11:11 AM	✓					
<i>57</i>	NORTH @ SURFACE											2/22/19	1:05 PM	✓	✓	✓			
<i>58</i>	EAST @ SURFACE											2/22/19	1:10 PM	✓	✓	✓			
<i>59</i>	WEST @ SURFACE											2/22/19	1:20 PM	✓	✓	✓			
<i>60</i>	SOUTH @ SURFACE											2/22/19	1:25 PM	✓	✓	✓			

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>2/22/19</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>2-26-19</i>	Received By: <i>[Signature]</i>	REMARKS:	
	Time: <i>0920</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
<i>4.90 #97</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>YO</i>		

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