



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION/REMEDIATION WORKPLAN

OXY – Sand Dunes 34 Fed #2 CTB (Leak Date: 1/11/20)

Incident ID: NCE2003550956

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NCE2003550956.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 -SP4 (PURPLE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP5 (WHITE shade on diagram) will require zero remediation.

Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 155 cubic yards. Remediation activities will commence within 90 days of all approvals.

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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	NCE2003550956
District RP	
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?	139 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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.

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NCE2003550956
District RP	
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator

Signature:  Date: 7-17-20

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

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NCE2003550956
District RP	
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 I 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: 7-17-20
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

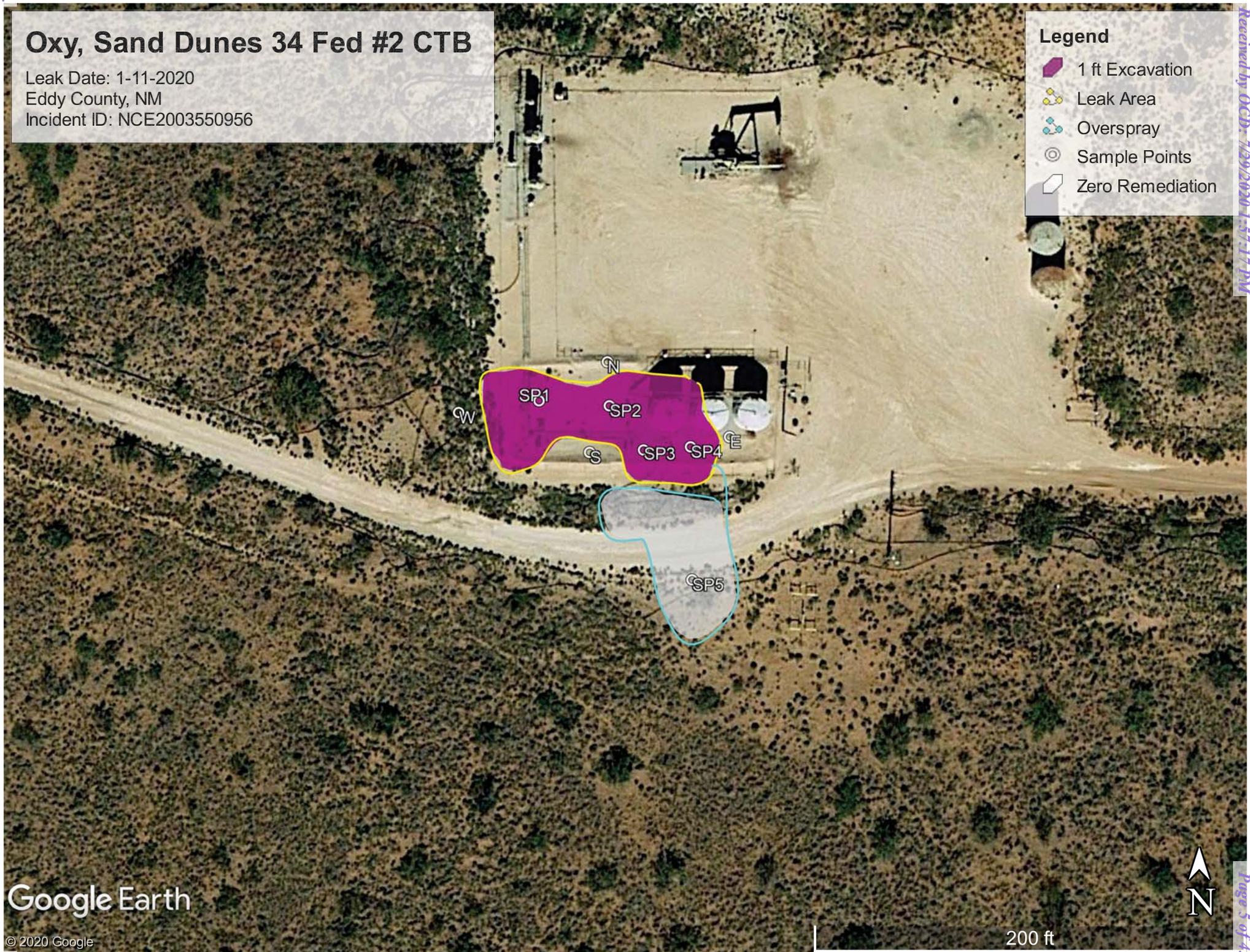
- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Oxy, Sand Dunes 34 Fed #2 CTB

Leak Date: 1-11-2020
Eddy County, NM
Incident ID: NCE2003550956

- Legend**
- 1 ft Excavation
 - Leak Area
 - Overspray
 - Sample Points
 - Zero Remediation



Google Earth

© 2020 Google

200 ft



Received by OCD: 7/29/2020 1:57:17 PM

Page 5 of 13

Oxy Sand Dunes 34 Federal #2 CTB (1-11-20)

Sample Points:

SP1 32.26154 W -103.75963

SP2 32.26153 W -103.75952

SP3 32.26148 W -103.75947

SP4 32.26148 W -103.75940

SP5 32.26131 W -103.75940

North, 32.26159 W -103.75952

East, 32.26149 W -103.75934

West, 32.26152 W -103.75975

South, 32.26147 W -103.75955



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321648103482101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321648103482101 23S.31E.29.11333

Eddy County, New Mexico
 Latitude 32°16'48", Longitude 103°48'21" NAD27
 Land-surface elevation 3,336 feet above NAVD88
 The depth of the well is 220 feet below land surface.
 This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1959-03-26		D	138.43			2			U	
1972-09-20		D	139.90			2	R		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
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.

[Questions about sites/data?](#)
[Feedback on this web site](#)

- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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

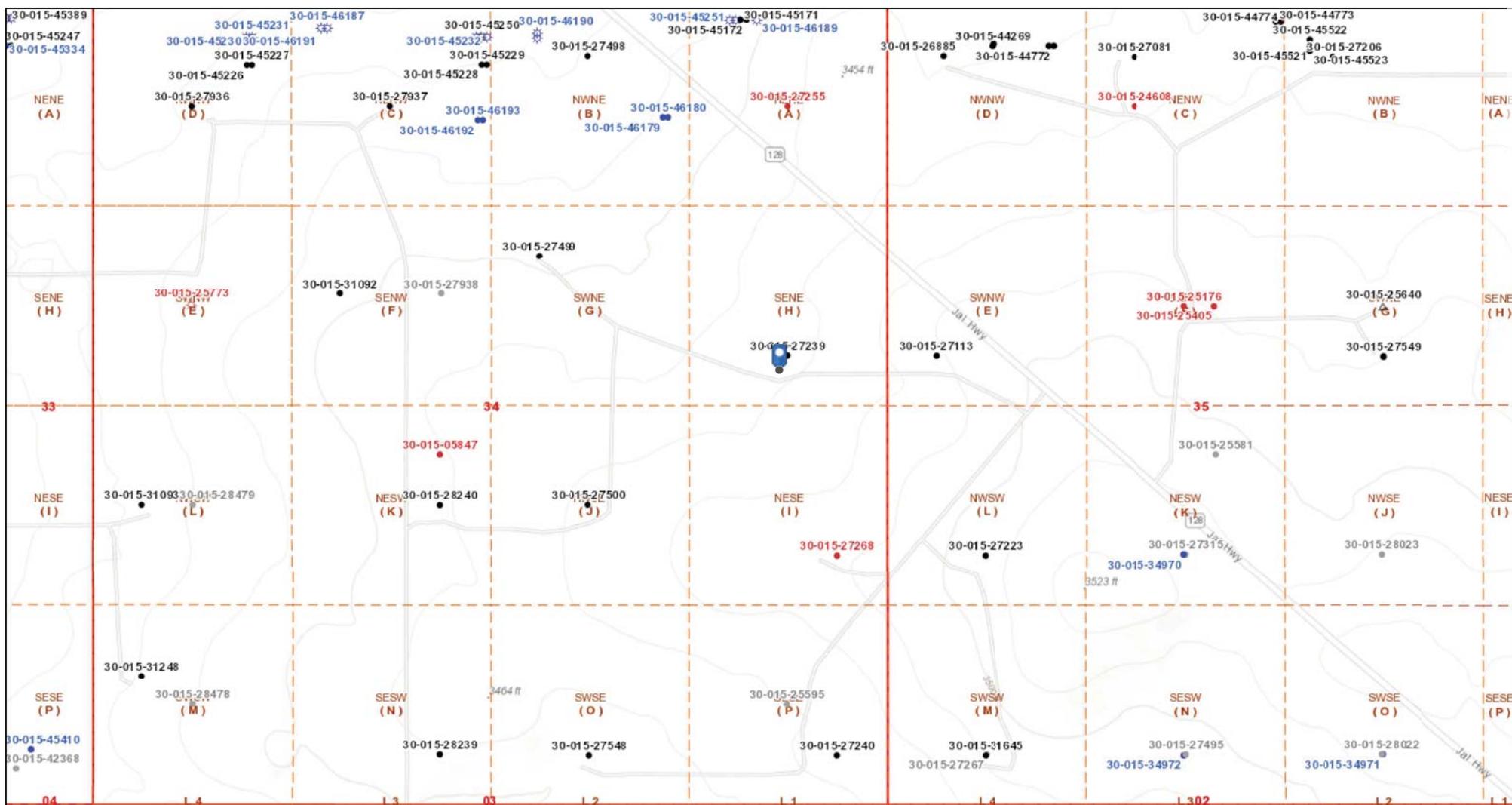


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-01-15 15:22:56 EST

0.24 0.22 nadww01

Sand Dunes 34 2 CTB 1-11-20, +3000ft to H2O



1/15/2020 11:56:33 AM

1:9,028

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

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

Gas

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

Injection, Cancelled

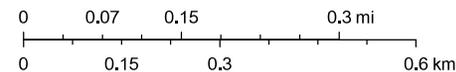
- ⊛ Injection, Cancelled
- ⊛ Injection, New
- ⊛ Injection, Plugged
- ⊛ Injection, Temporarily Abandoned

Oil, New

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

Salt Water Injection, Plugged

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



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD.

Oxy, Sand Dunes 34 2 CTB

Leak Date: 1-11-2020
Eddy County, NM
Incident ID: NCE2003550956

BLM CAVE KARST MAP

- Legend**
-  Overspray
 -  Leak Area
 -  Low Potential

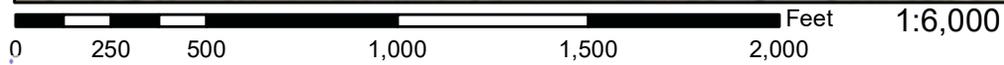
Received by OCD: 7/29/2020 1:57:17 PM



National Flood Hazard Layer FIRMette



32°15'56.76"N



32°15'26.33"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
		Future Conditions 1% Annual Chance Flood Hazard
		Area with Reduced Flood Risk due to Levee. See Notes.
		Area with Flood Risk due to Levee

OTHER AREAS		Area of Minimal Flood Hazard
		Effective LOMRs
		Area of Undetermined Flood Hazard

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		Cross Sections with 1% Annual Chance
		Water Surface Elevation
		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 1/15/2020 at 3:38:39 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.

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Laboratory Analytical Results Summary
 Oxy, Sand Dunes 34 Federal #2 CTB 1-11-20

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	5/26/20	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.08	<0.150	<0.150
Total BTEX	BTEX 8021B		1.08	<0.300	<0.300
Chloride	SM4500Cl-B		1010	432	16.0
GRO	TPH 8015M		122	<10.0	<10.0
DRO	TPH 8015M		26100	473	149
EXT DRO	TPH 8015M		9040	193	<10.0

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		12800	64.0	32.0
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		11700	367	<10.0
EXT DRO	TPH 8015M		4110	196	<10.0

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		128	32.0	32.0
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		20800	126	211
EXT DRO	TPH 8015M		6610	43.1	17.7

Laboratory Analytical Results Summary
 Oxy, Sand Dunes 34 Federal #2 CTB 1-11-20

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		7200	240	112
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		241	<10.0	n/a
EXT DRO	TPH 8015M		103	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	5/26/20	5/26/20	5/26/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		16.0	<16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 04, 2020

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

RE: SAND DUNES 34 - 2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/29/20 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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/ga/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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N @ SURFACE	H001459-01	Soil	26-May-20 09:00	29-May-20 13:55
E @ SURFACE	H001459-02	Soil	26-May-20 09:12	29-May-20 13:55
W @ SURFACE	H001459-03	Soil	26-May-20 09:28	29-May-20 13:55
S @ SURFACE	H001459-04	Soil	26-May-20 09:42	29-May-20 13:55
SP 1 @ SURFACE	H001459-05	Soil	26-May-20 09:55	29-May-20 13:55
SP 1 @ 1'	H001459-06	Soil	26-May-20 10:12	29-May-20 13:55
SP 1 @ 2'	H001459-07	Soil	26-May-20 10:24	29-May-20 13:55
SP 2 @ SURFACE	H001459-08	Soil	26-May-20 10:47	29-May-20 13:55
SP 2 @ 1'	H001459-09	Soil	26-May-20 11:03	29-May-20 13:55
SP 2 @ 2'	H001459-10	Soil	26-May-20 11:19	29-May-20 13:55
SP 3 @ SURFACE	H001459-11	Soil	26-May-20 11:30	29-May-20 13:55
SP 3 @ 1'	H001459-12	Soil	26-May-20 11:41	29-May-20 13:55
SP 3 @ 2'	H001459-13	Soil	26-May-20 11:53	29-May-20 13:55
SP 4 @ SURFACE	H001459-14	Soil	26-May-20 12:46	29-May-20 13:55
SP 4 @ 1'	H001459-15	Soil	26-May-20 13:00	29-May-20 13:55
SP 4 @ 2'	H001459-16	Soil	26-May-20 13:13	29-May-20 13:55
SP 5 @ SURFACE	H001459-17	Soil	26-May-20 13:27	29-May-20 13:55
SP 5 @ 1'	H001459-18	Soil	26-May-20 13:40	29-May-20 13:55
SP 5 @ 2'	H001459-19	Soil	26-May-20 13:53	29-May-20 13:55

06/04/20 - Client added BTEX and TPH to samples -07, -10 and -13 on 06/02/20. This is the revised report with the additions and will replace the one sent on 06/02/20.

Cardinal Laboratories

* = Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

N @ SURFACE
H001459-01 (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	0060106	GM	01-Jun-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0052907	MS	29-May-20	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
Surrogate: 1-Chlorooctane			76.2 %	44.3-144		0052906	MS	29-May-20	8015B	
Surrogate: 1-Chlorooctadecane			84.0 %	42.2-156		0052906	MS	29-May-20	8015B	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

E @ SURFACE**H001459-02 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0052907	MS	29-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

Surrogate: 1-Chlorooctane			80.6 %	44.3-144		0052906	MS	29-May-20	8015B	
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Surrogate: 1-Chlorooctadecane			84.6 %	42.2-156		0052906	MS	29-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

W @ SURFACE**H001459-03 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0052907 MS 29-May-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

Surrogate: 1-Chlorooctane 97.1 % 44.3-144 0052906 MS 29-May-20 8015B

Surrogate: 1-Chlorooctadecane 103 % 42.2-156 0052906 MS 29-May-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

S @ SURFACE**H001459-04 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129 0052907 MS 29-May-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

Surrogate: 1-Chlorooctane 97.6 % 44.3-144 0052906 MS 29-May-20 8015B

Surrogate: 1-Chlorooctadecane 102 % 42.2-156 0052906 MS 29-May-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 1 @ SURFACE**H001459-05 (Soil)**

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

Chloride	1010		16.0	mg/kg	4	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Total Xylenes*	1.08		0.150	mg/kg	50	0052907	MS	01-Jun-20	8021B	GC-NC1
Total BTEX	1.08		0.300	mg/kg	50	0052907	MS	01-Jun-20	8021B	GC-NC1

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			171 %		73.3-129	0052907	MS	01-Jun-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	122		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
DRO >C10-C28*	26100		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
EXT DRO >C28-C36	9040		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			159 %		44.3-144	0052906	MS	30-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			1310 %		42.2-156	0052906	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 1 @ 1'
H001459-06 (Soil)

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

Chloride	432		16.0	mg/kg	4	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		0052907	MS	29-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	473		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	193		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

Surrogate: 1-Chlorooctane			101 %	44.3-144		0052906	MS	29-May-20	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	42.2-156		0052906	MS	29-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 1 @ 2'**H001459-07 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0060208	MS	02-Jun-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.6 %	73.3-129		0060208	MS	02-Jun-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
DRO >C10-C28*	149		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.9 %	44.3-144		0060305	MS	03-Jun-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %	42.2-156		0060305	MS	03-Jun-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 2 @ SURFACE**H001459-08 (Soil)**

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

Chloride	12800		16.0	mg/kg	4	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	01-Jun-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.1 %		73.3-129	0052907	MS	01-Jun-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
DRO >C10-C28*	11700		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
EXT DRO >C28-C36	4110		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.0 %		44.3-144	0052906	MS	30-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			592 %		42.2-156	0052906	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 2 @ 1'
H001459-09 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	29-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	29-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	29-May-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		0052907	MS	29-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	367		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	196		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.4 %	44.3-144		0052906	MS	29-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			153 %	42.2-156		0052906	MS	29-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 2 @ 2'
H001459-10 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0060208	MS	02-Jun-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.5 %	73.3-129		0060208	MS	02-Jun-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	

Surrogate: 1-Chlorooctane			99.4 %	44.3-144		0060305	MS	03-Jun-20	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	42.2-156		0060305	MS	03-Jun-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 3 @ SURFACE**H001459-11 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	01-Jun-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	01-Jun-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	73.3-129		0052907	MS	01-Jun-20	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
DRO >C10-C28*	20800		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	
EXT DRO >C28-C36	6610		50.0	mg/kg	5	0052906	MS	30-May-20	8015B	

Surrogate: 1-Chlorooctane			124 %	44.3-144		0052906	MS	30-May-20	8015B	
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Surrogate: 1-Chlorooctadecane			932 %	42.2-156		0052906	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 3 @ 1'
H001459-12 (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	0060106	GM	01-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	30-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	30-May-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		0052907	MS	30-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
DRO >C10-C28*	126		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	
EXT DRO >C28-C36	43.1		10.0	mg/kg	1	0052906	MS	29-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	44.3-144		0052906	MS	29-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			122 %	42.2-156		0052906	MS	29-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 3 @ 2'
H001459-13 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0060208	MS	02-Jun-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0060208	MS	02-Jun-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129 0060208 MS 02-Jun-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
DRO >C10-C28*	211		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	
EXT DRO >C28-C36	17.7		10.0	mg/kg	1	0060305	MS	03-Jun-20	8015B	

Surrogate: 1-Chlorooctane 96.5 % 44.3-144 0060305 MS 03-Jun-20 8015B

Surrogate: 1-Chlorooctadecane 109 % 42.2-156 0060305 MS 03-Jun-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 4 @ SURFACE**H001459-14 (Soil)**

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

Chloride	7200		16.0	mg/kg	4	0060107	GM	02-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	30-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	30-May-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.4 %		73.3-129	0052907	MS	30-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	
DRO >C10-C28*	241		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	
EXT DRO >C28-C36	103		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.8 %		44.3-144	0052906	MS	30-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			115 %		42.2-156	0052906	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 4 @ 1'
H001459-15 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	30-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	30-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		0052907	MS	30-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052906	MS	30-May-20	8015B	

Surrogate: 1-Chlorooctane			94.5 %	44.3-144		0052906	MS	30-May-20	8015B	
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Surrogate: 1-Chlorooctadecane			100 %	42.2-156		0052906	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: SAND DUNES 34 - 2 CTB Project Number: (1-11-20) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 04-Jun-20 11:25
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**SP 4 @ 2'
H001459-16 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 5 @ SURFACE**H001459-17 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	30-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	30-May-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	73.3-129		0052907	MS	30-May-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.8 %	44.3-144		0052908	MS	30-May-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.6 %	42.2-156		0052908	MS	30-May-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

SP 5 @ 1'
H001459-18 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0052907	MS	30-May-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0052907	MS	30-May-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0052907	MS	30-May-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129 0052907 MS 30-May-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0052908	MS	30-May-20	8015B	

Surrogate: 1-Chlorooctane 94.9 % 44.3-144 0052908 MS 30-May-20 8015B

Surrogate: 1-Chlorooctadecane 98.8 % 42.2-156 0052908 MS 30-May-20 8015B

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: SAND DUNES 34 - 2 CTB Project Number: (1-11-20) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 04-Jun-20 11:25
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SP 5 @ 2'
H001459-19 (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	0060107	GM	02-Jun-20	4500-CI-B	
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Analytical Results For:

BBC International, Inc. P.O. Box 805 Hobbs NM, 88241	Project: SAND DUNES 34 - 2 CTB Project Number: (1-11-20) Project Manager: Cliff Brunson Fax To: (575) 397-0397	Reported: 04-Jun-20 11:25
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060106 - 1:4 DI Water										
Blank (0060106-BLK1) Prepared & Analyzed: 01-Jun-20										
Chloride	ND	16.0	mg/kg							
LCS (0060106-BS1) Prepared & Analyzed: 01-Jun-20										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (0060106-BSD1) Prepared & Analyzed: 01-Jun-20										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 0060107 - 1:4 DI Water										
Blank (0060107-BLK1) Prepared & Analyzed: 01-Jun-20										
Chloride	ND	16.0	mg/kg							
LCS (0060107-BS1) Prepared & Analyzed: 01-Jun-20										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (0060107-BSD1) Prepared & Analyzed: 01-Jun-20										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

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 0052907 - Volatiles**Blank (0052907-BLK1)**

Prepared & Analyzed: 29-May-20

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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0503</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>101</i>	<i>73.3-129</i>			

LCS (0052907-BS1)

Prepared & Analyzed: 29-May-20

Benzene	2.05	0.050	mg/kg	2.00		102	72.2-131			
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126			
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	68.9-126			
Total Xylenes	5.81	0.150	mg/kg	6.00		96.9	71.4-125			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0511</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>102</i>	<i>73.3-129</i>			

LCS Dup (0052907-BSD1)

Prepared & Analyzed: 29-May-20

Benzene	2.04	0.050	mg/kg	2.00		102	72.2-131	0.200	14.6	
Toluene	1.99	0.050	mg/kg	2.00		99.5	71.7-126	0.938	17.4	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	1.11	18.9	
Total Xylenes	5.74	0.150	mg/kg	6.00		95.7	71.4-125	1.22	18.5	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0497</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>99.5</i>	<i>73.3-129</i>			

Batch 0060208 - Volatiles**Blank (0060208-BLK1)**

Prepared & Analyzed: 02-Jun-20

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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>ND</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>98.5</i>	<i>73.3-129</i>			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

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 0060208 - Volatiles**LCS (0060208-BS1)**

Prepared & Analyzed: 02-Jun-20

Benzene	2.02	0.050	mg/kg	2.00		101	72.2-131			
Toluene	1.95	0.050	mg/kg	2.00		97.5	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.5	68.9-126			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	73.3-129			

LCS Dup (0060208-BSD1)

Prepared & Analyzed: 02-Jun-20

Benzene	2.05	0.050	mg/kg	2.00		102	72.2-131	1.25	14.6	
Toluene	1.96	0.050	mg/kg	2.00		97.8	71.7-126	0.246	17.4	
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	68.9-126	0.395	18.9	
Total Xylenes	5.66	0.150	mg/kg	6.00		94.3	71.4-125	0.268	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		97.9	73.3-129			

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Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

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 0052906 - General Prep - Organics**Blank (0052906-BLK1)**

Prepared & Analyzed: 29-May-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.7	44.3-144			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	42.2-156			

LCS (0052906-BS1)

Prepared & Analyzed: 29-May-20

GRO C6-C10	184	10.0	mg/kg	200		92.1	78.8-127			
DRO >C10-C28	180	10.0	mg/kg	200		90.2	80-132			
Total TPH C6-C28	365	10.0	mg/kg	400		91.2	81.3-128			
Surrogate: 1-Chlorooctane	47.9		mg/kg	50.0		95.9	44.3-144			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.6	42.2-156			

LCS Dup (0052906-BSD1)

Prepared & Analyzed: 29-May-20

GRO C6-C10	200	10.0	mg/kg	200		100	78.8-127	8.33	15.1	
DRO >C10-C28	197	10.0	mg/kg	200		98.4	80-132	8.66	17.1	
Total TPH C6-C28	397	10.0	mg/kg	400		99.2	81.3-128	8.49	15	
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	44.3-144			
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	42.2-156			

Batch 0052908 - General Prep - Organics**Blank (0052908-BLK1)**

Prepared: 29-May-20 Analyzed: 30-May-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.1	44.3-144			
Surrogate: 1-Chlorooctadecane	49.5		mg/kg	50.0		99.0	42.2-156			

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Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

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 0052908 - General Prep - Organics**LCS (0052908-BS1)**

Prepared: 29-May-20 Analyzed: 30-May-20

GRO C6-C10	200	10.0	mg/kg	200		100	78.8-127			
DRO >C10-C28	190	10.0	mg/kg	200		94.8	80-132			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	81.3-128			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	44.3-144			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	42.2-156			

LCS Dup (0052908-BS1)

Prepared: 29-May-20 Analyzed: 30-May-20

GRO C6-C10	203	10.0	mg/kg	200		102	78.8-127	1.66	15.1	
DRO >C10-C28	199	10.0	mg/kg	200		99.7	80-132	5.02	17.1	
Total TPH C6-C28	403	10.0	mg/kg	400		101	81.3-128	3.31	15	
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	44.3-144			
Surrogate: 1-Chlorooctadecane	53.5		mg/kg	50.0		107	42.2-156			

Batch 0060305 - General Prep - Organics**Blank (0060305-BLK1)**

Prepared & Analyzed: 03-Jun-20

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	49.2		mg/kg	50.0		98.4	44.3-144			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	42.2-156			

LCS (0060305-BS1)

Prepared & Analyzed: 03-Jun-20

GRO C6-C10	178	10.0	mg/kg	200		88.9	78.8-127			
DRO >C10-C28	178	10.0	mg/kg	200		89.0	80-132			
Total TPH C6-C28	356	10.0	mg/kg	400		88.9	81.3-128			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	44.3-144			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	42.2-156			

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Analytical Results For:

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

Project: SAND DUNES 34 - 2 CTB
Project Number: (1-11-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
04-Jun-20 11:25

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 0060305 - General Prep - Organics**LCS Dup (0060305-BSD1)**

Prepared & Analyzed: 03-Jun-20

GRO C6-C10	188	10.0	mg/kg	200		94.1	78.8-127	5.71	15.1	
DRO >C10-C28	187	10.0	mg/kg	200		93.3	80-132	4.73	17.1	
Total TPH C6-C28	375	10.0	mg/kg	400		93.7	81.3-128	5.22	15	
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	44.3-144			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	42.2-156			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- 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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